#### **⚠** NOTICE

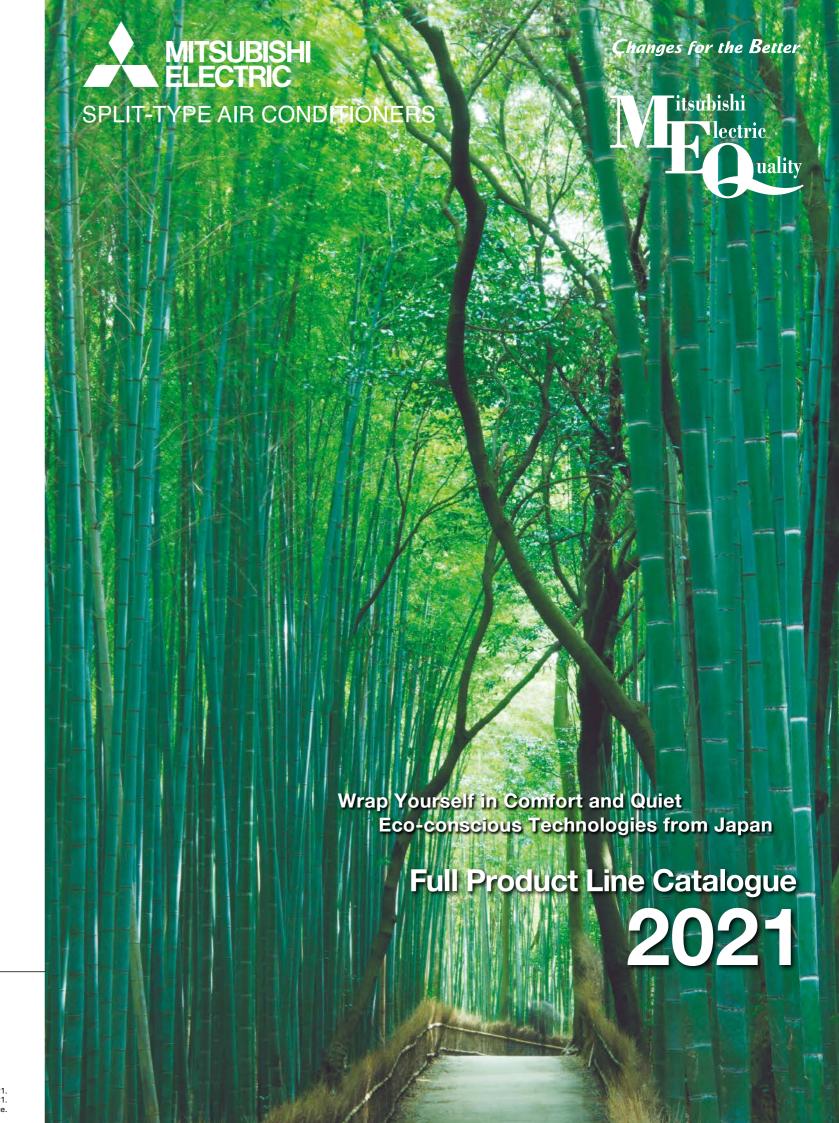
- Do not install indoor units in areas (e.g. mobile phone base stations) where the emission of VOCs such as phthalate compounds and formaldehyde is known to be high as this may result in a chemical reaction.
- Our air-conditioning equipments and heat pumps contain a fluorinated greenhouse gas, R410A (GWP: 2088) or R32 (GWP: 675). \*These GWP values are based on Regulation (EU) No.517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP: 1975), R32 (GWP: 550)
- When installing or relocating or servicing our air-conditioning equipment, use only the specified refrigerant (R410A or R32) to charge the refrigerant lines.
- Do not mix it with any other refrigerant and do not allow air to remain in the lines.
- If air is mixed with the refrigerant, then it can be the cause of abnormal high pressure in the refrigerant lines, and may result in an explosion and other hazards.
- The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.

#### MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN http://Global.MitsubishiElectric.com/







# **Doing Our Part to** Create a Better Future for All...

Core Environmental Policy

The Mitsubishi Electric Group promotes sustainable development and is committed to protecting and restoring the global environment through technology, through all its business activities, and through the actions of its employees.

#### **Environmental Vision 2021**



and its People through Technology and Action

#### Preventing Global Warming

- Reduce CO₂ emissions from product usage by 30%
   Reduce total CO₂ emissions from production by 30%
   Aim to reduce CO₂ emissions from

#### Creating a Recycling-Based Society

- Reduce, reuse and recycle "3Rs" products reduce resources used by 30%
   Zero emissions from manufacturing reducing the direct landfill of waste to zero

**Ensuring Harmony with Nature Fostering Environmental Awareness** 

#### The New Refrigerant R32

The new R32 refrigerant has a global warming potential approximately 1/3\*1 that of our current refrigerant, R410A; thereby dramatically reducing the negative impact more than ever. Actively introducing the new R32 refrigerant to suppress considering the environment.

> **Comparison of Global Warming Potential**

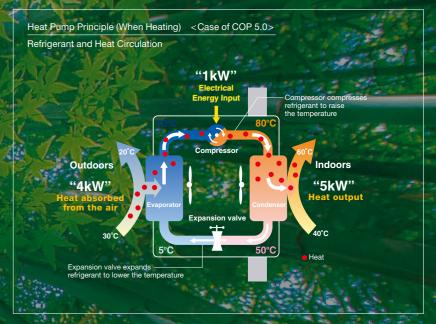


R410A

Source: IPCC 4th Assessment Report, global warming potential (GWP) 100-year value. Comparison of 2088 (R410A) and 675 (R32).

Mitsubishi Electric reflects the essence of this policy and vision in all aspects of its air conditioner business as well.

Preventing Global Warming
Heat pump technology inspires Mitsubishi Electric to design air conditioners that harmonize comfort and ecology.



Mitsubishi Electric develops technologies to balance comfort and ecology, achieving greater efficiency in heat pump operation.

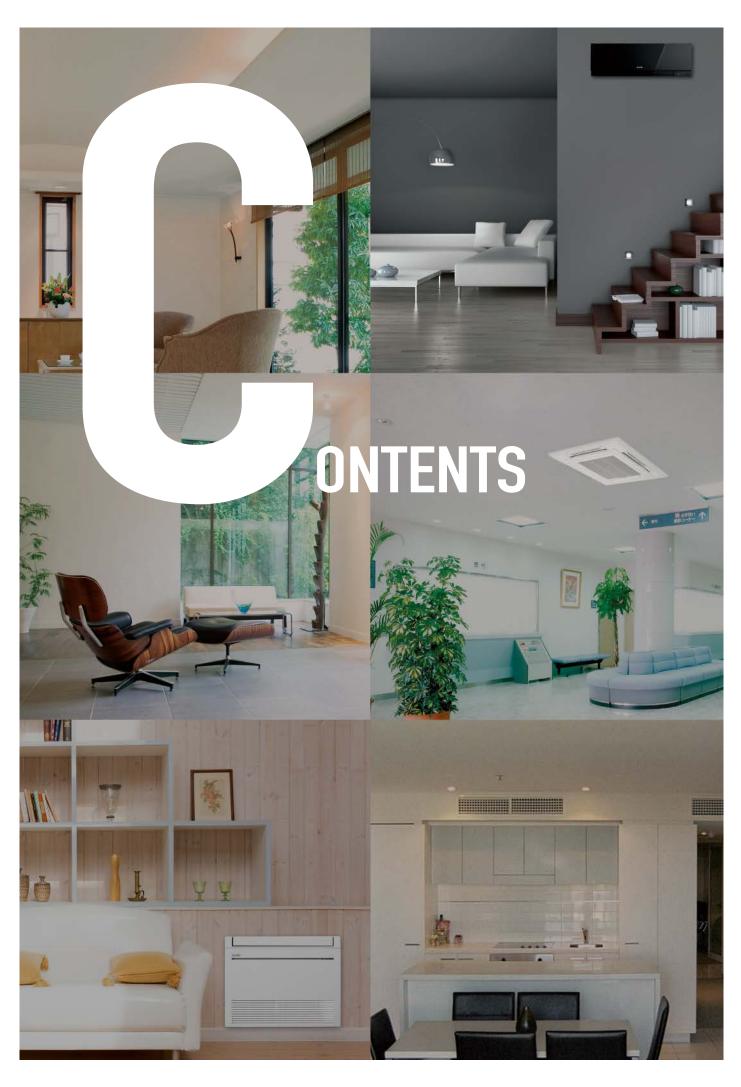
|                    | Comfort  | Ecology   |
|--------------------|--|---|
| 1. Inverter        | Faster start-up and more stable indoor temperature than non-inverter units.  | Fewer On/Off operations than with non-inverter, saving energy.  |
| 2. 3D i-see Sensor | Since the positions of people can be detected, airflow can be set to personal taste, such as in airflow path or protected from the wind. The ability to adjust to individual preferences realizes more comfortable air conditioning. | Since the number of people in a room can be detected, energy-saving operation is adjusted or the power is turned off automatically. Efficient air conditioning with less waste is realized. |
| 3. Flash Injection | Achieves high heating capacity even at low temperatures, plus faster start-up compared to conventional inverters.  | Expands the region covered by heat pump heating system.   |

#### Creating a Recycling-Based Society

- 1. All models are designed for RoHS and WEEE compliance.\*
- nology to reduce materials use.

#### Ensuring Harmony with Nature / Fostering Environmental Awareness

In striving to heighten the eco-awareness of its employees, Mitsubishi Electric provides education in RoHS, WEEE and other environmental regulations, education targeting second and third-year workers.

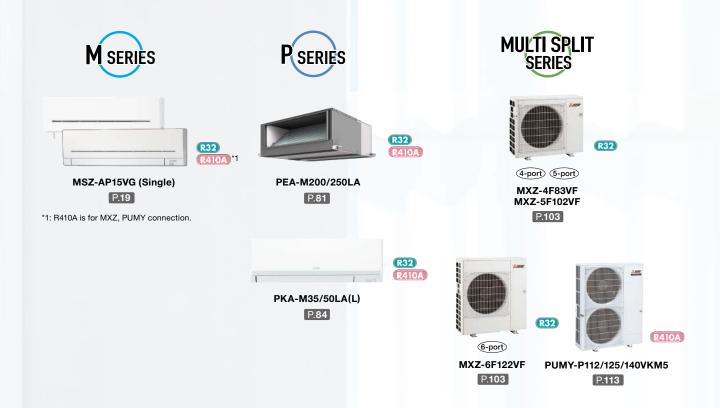


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| New releases in 2021                | - 005-006        |
|-------------------------------------|------------------|
| LINE-UP                             | - 007-010        |
| M SERIES                            | ··· 011-052      |
| S SERIES                            | 053-062          |
| P SERIES                            | ··· 063-100      |
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| POWERFUL HEATING SERIES             | ··· 119-138      |
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# and Connect COMING SOON

# New releases in 2021





P.163

# LINE-UP

# **M** SERIES

| Market           |                          |                     | 1.5kW                       | 1.8kW                                  | 2.0kW                       | 2.2kW                                | 2.5kW                | 3.5kW                | 4.2kW           | 5.0kW             | 6.0kW             | 7.1kW   | Post |
|------------------|--------------------------|---------------------|-----------------------------|--|-----------------------------|--------------------------------------|----------------------|----------------------|-----------------|-------------------|-------------------|---------|------|
| Model Nam        | ie                       |                     | 1-phase                     | 1-phase                                | 1-phase                     | 1-phase                              | 1-phase              | 1-phase              | 1-phase         | 1-phase           | 1-phase           | 1-phase | Page |
|                  | MSZ-L Series R32 R410A*2 |                     |                             | W-V-R-B<br>Multi<br>connection<br>only |                             |                                      | WVRB<br>SINGLE       | W-Y-R-B<br>SINGLE    |                 | W-V-R-B<br>SINGLE | W-V-R-B<br>SINGLE |         | 13   |
|                  | MSZ-A Series R32 R410A*1 | MSZ-AP15/20VG       | SINGLE                      |  | SINGLE                      |                                      |                      |                      |                 |                   |                   |         | 19   |
|                  | MS                       | MSZ-AP25/35/42/50VG |                             |  |                             |                                      | SINGLE               | SINGLE               | SINGLE          | SINGLE            | SINGLE            | SINGLE  | 19   |
|                  | MSZ-E Series R32 R410A*1 | -/-                 |                             | W-S-B<br>Multi<br>connection<br>only   |                             | W-S-B<br>Multi<br>connection<br>only | W-S-B<br>SINGLE<br>H | W-S-B<br>SINGLE<br>H | W-S-B<br>SINGLE | W-S-B<br>SINGLE   |                   |         | 25   |
|                  | MSZ-BT Series            | 1                   |                             |  | SINGLE                      |                                      | SINGLE               | SINGLE               |                 | SINGLE            |                   |         | 27   |
|                  | MSZ-HR Series  R32  MSZ  | MSZ-HR25/35/42/50VF |                             |  |                             |                                      | SINGLE               | SINGLE               | SINGLE          | SINGLE            | SINGLE            | SINGLE  | 29   |
| Wall-<br>mounted | MSY-TP Series            | ]~*                 |                             |  |                             |                                      |                      | SINGLE               |                 | SINGLE            |                   |         | 31   |
|                  | MSZ-F Series             | t tu,               |                             |  |                             |                                      | SINGLE               | SINGLE               |                 | SINGLE            |                   |         | 33   |
|                  | MSZ-S Series R410A       | MSZ-SF15/20VA       | Multi<br>connection<br>only |  | Multi<br>connection<br>only |                                      |                      |                      |                 |                   |                   |         | 35   |
|                  | M                        | SZ-SF25/35/42/50VE3 |                             |  |                             |                                      | SINGLE               | SINGLE               | SINGLE          | SINGLE            |                   |         | 35   |
|                  | MSZ-G Series R410A       | 1-5                 |                             |  |                             |                                      |                      |                      |                 |                   | SINGLE            | SINGLE  | 35   |
|                  | MSZ-W Series R410A       |                     |                             |  |                             |                                      | SINGLE               | SINGLE               |                 |                   |                   |         | 39   |
|                  | MSZ-D Series R410A       |                     |                             |  |                             |                                      | SINGLE               | SINGLE               |                 |                   |                   |         | 41   |
|                  | MSZ-H Series R410A       | MSZ-HJ25/35/50      |                             |  |                             |                                      | SINGLE               | SINGLE               |                 | SINGLE            | SINGLE            | SINGLE  | 43   |
| Compact          | MFZ Series               |                     |                             |  |                             |                                      | SINGLE               | SINGLE               |                 | SINGLE            | SINGLE            |         | 45   |
|                  | MLZ Series               |                     |                             |  |                             |                                      | SINGLE               | SINGLE               |                 | SINGLE            |                   |         | 47   |

<sup>\*1:</sup> R410A is for MXZ and PUMY connection. \*2: R410A is for PUMY connection.

H: Outdoor unit with freeze-prevention heater is available.
W-S-B: Indoor units are available in three colours; White, Black and Silver.
W-V-R-B: Indoor units are available in four colours; Natural White, Pearl White, Ruby Red, and Onyx Black.

#### **Indoor Combinations**

SINGLE 1 outdoor unit & 1 indoor unit

TWIN 1 outdoor unit & 2 indoor units

TRIPLE 1 outdoor unit & 3 indoor units

QUADRUPLE 1 outdoor unit & 4 indoor units

| Model Nar                        |                      | 1.5kW                       | 2.5kW    | 3.5kW    | 5.0kW    | 6.0kW      | 7.1kW      | 10.0kW       | 12.5kW                | 14.0kW              | Page  |
|----------------------------------|----------------------|-----------------------------|----------|----------|----------|------------|------------|--------------|-----------------------|---------------------|-------|
| Wodel Nai                        | TIE                  | 1-phase                     | 1-phase  | 1-phase  | 1-phase  | 1-phase    | 1-phase    | 1- & 3-phase | 1- & 3-phase          | 1- & 3-phase        | 1 age |
| 2 x 2<br>cassette                | SLZ Series R32 R410A | Multi<br>connection<br>only | SINGLE   | SINGLE   | SINGLE   | SINGLE     | TWIN       | TWIN TRIPLE  | TWIN TRIPLE QUADRUPLE | TRIPLE<br>Quadruple | 55    |
| Compact<br>ceiling-<br>concealed | SEZ Series R32 R410A |                             | * SINGLE | * SINGLE | * SINGLE | * (SINGLE) | * (SINGLE) |              |                       |                     | 60    |

<sup>\*</sup> Indoor units are available in two types; with or without the wireless remote controller.

#### P SERIES

#### R32 Power Inverter Models / R32 Standard Inverter Models

| Model Name                  |                 | 3.5kW    | 5.0kW    | 6.0kW    | 7.1kW           | 10.0kW          | 12.5kW          | 14.0kW                   | 20.0kW                | 25.0kW                | Page |
|-----------------------------|-----------------|----------|----------|----------|-----------------|-----------------|-----------------|--------------------------|-----------------------|-----------------------|------|
| Model Name                  |                 | 1-phase  | 1-phase  | 1-phase  | 1-phase         | 1- &<br>3-phase | 1- &<br>3-phase | 1- &<br>3-phase          | 1- &<br>3-phase       | 1- &<br>3-phase       | гауе |
| 4-way<br>cassette           | PLA Series      | SINGLE   | SINGLE   | SINGLE   | SINGLE          | SINGLE          | SINGLE          | SINGLE<br>TWIN<br>TRIPLE | TWIN TRIPLE QUADRUPLE | TWIN TRIPLE QUADRUPLE | 67   |
| Ceiling-                    | PEAD Series R32 | SINGLE   | SINGLE   | SINGLE   | SINGLE          | SINGLE          | SINGLE          | SINGLE<br>TWIN<br>TRIPLE | TWIN TRIPLE QUADRUPLE | TWIN TRIPLE QUADRUPLE | 76   |
| concealed                   | PEA Series R32  |          |          |          |                 |                 |                 |                          | SINGLE                | SINGLE                | 81   |
| Wall-<br>mounted            | PKA Series      | * SINGLE | * SINGLE | * SINGLE | SINGLE * TWIN * | SINGLE          | TWIN            | TWIN                     | TWIN TRIPLE QUADRUPLE | TRIPLE                | 84   |
| Ceiling-<br>suspended       | PCA-KA Series   | SINGLE   | SINGLE   | SINGLE   | SINGLE          | SINGLE          | SINGLE          | SINGLE<br>TWIN<br>TRIPLE | TWIN TRIPLE QUADRUPLE | TWIN TRIPLE QUADRUPLE | 89   |
| for Professional<br>Kitchen | PCA-HA Series*  |          |          |          | SINGLE*         |                 |                 | * TWIN                   |                       | * TRIPLE              | 94   |

\* R32 Power Inverter Model only

#### R410A POWER INVERTER Models / R410A STANDARD INVERTER Models

| Model Name                  |                   | 3.5kW    | 5.0kW    | 6.0kW    | 7.1kW           | 10.0kW          | 12.5kW          | 14.0kW                   | 20.0kW                | 25.0kW                | Daga |
|-----------------------------|-------------------|----------|----------|----------|-----------------|-----------------|-----------------|--------------------------|-----------------------|-----------------------|------|
| woder warne                 | iviodei ivame     |          | 1-phase  | 1-phase  | 1-phase         | 1- &<br>3-phase | 1- &<br>3-phase | 1- &<br>3-phase          | 3-phase               | 3-phase               | Page |
| 4-way cassette              | PLA Series R410A  | SINGLE   | SINGLE   | SINGLE   | SINGLE *        | SINGLE          | SINGLE          | SINGLE<br>TWIN<br>TRIPLE | TWIN TRIPLE QUADRUPLE | TWIN TRIPLE QUADRUPLE | 67   |
| Ceiling-                    | PEAD Series R410A | SINGLE   | SINGLE   | SINGLE   | SINGLE *        | SINGLE          | SINGLE          | SINGLE<br>TWIN<br>TRIPLE | TWIN TRIPLE QUADRUPLE | TWIN TRIPLE QUADRUPLE | 76   |
| concealed                   | PEA Series R410A  |          |          |          |                 |                 |                 |                          | SINGLE                | SINGLE                | 81   |
| Wall-<br>mounted            | PKA Series R410A  | * SINGLE | * SINGLE | * SINGLE | SINGLE * TWIN * | SINGLE          | TWIN            | TWIN                     | TWIN TRIPLE QUADRUPLE | TRIPLE<br>QUADRUPLE   | 84   |
| Ceiling-<br>suspended       | PCA-KA Series     | SINGLE   | SINGLE   | SINGLE   | SINGLE *        | SINGLE          | SINGLE          | SINGLE<br>TWIN<br>TRIPLE | TWIN TRIPLE QUADRUPLE | TWIN TRIPLE QUADRUPLE | 89   |
| for Professional<br>Kitchen | PCA-HA Series*    |          |          |          | SINGLE *        |                 |                 | TWIN *                   |                       | * TRIPLE              | 94   |
| Floor-<br>standing          | PSA Series R410A  |          |          |          | SINGLE*         | SINGLE          | SINGLE          | SINGLE<br>TWIN           | TWIN                  | TWIN TRIPLE           | 97   |

# LINE-UP

## MXZ SERIES INVERTER Models

| Model Name                             | Capacity Class      | Page |
|--|---------------------|------|
| up to 2 indoor units R32 MXZ-2F33VF3   | 3.3kW<br><1-phase>  | 103  |
| up to 2 indoor units<br>MXZ-2F42VF3    | 4.2kW<br><1-phase>  | 103  |
| up to 2 indoor units<br>MXZ-2F53VF(H)3 | 5.3kW<br><1-phase>  | 103  |
| up to 3 indoor units<br>MXZ-3F54VF3    | 5.4kW<br><1-phase>  | 103  |
| up to 3 indoor units MXZ-3F68VF3       | 6.8kW<br><1-phase>  | 103  |
| up to 4 indoor units R32 MXZ-4F72VF3   | 7.2kW<br><1-phase>  | 103  |
| up to 4 indoor units<br>MXZ-4F80VF3    | 8.0kW<br><1-phase>  | 103  |
| up to 4 indoor units<br>MXZ-4F83VF     | 8.3kW<br><1-phase>  | 103  |
| up to 5 indoor units<br>MXZ-5F102VF    | 10.2kW<br><1-phase> | 103  |
| up to 6 indoor units<br>MXZ-6F122VF    | 12.2kW<br><1-phase> | 103  |
| up to 2 indoor units<br>MXZ-2HA40VF    | 4.0kW<br><1-phase>  | 107  |
| up to 2 indoor units<br>MXZ-2HA50VF    | 5.0kW<br><1-phase>  | 107  |
| up to 3 indoor units<br>MXZ-3HA50VF    | 5.0kW<br><1-phase>  | 107  |

| Model Name                              | Ca | apacity Class       | Page |
|---|----|---------------------|------|
| up to 2 indoor units R410A MXZ-2D33VA   |    | 3.3kW<br><1-phase>  | 105  |
| up to 2 indoor units<br>MXZ-2D42VA2     |    | 4.2kW<br><1-phase>  | 105  |
| up to 2 indoor units<br>MXZ-2D53VA (H)2 |    | 5.3kW<br><1-phase>  | 105  |
| up to 3 indoor units<br>MXZ-3E54VA      |    | 5.4kW<br><1-phase>  | 105  |
| up to 3 indoor units<br>MXZ-3E68VA      | 0  | 6.8kW<br><1-phase>  | 105  |
| up to 4 indoor units<br>MXZ-4E72VA      |    | 7.2kW<br><1-phase>  | 105  |
| up to 4 indoor units MXZ-4E83VA         |    | 8.3kW<br><1-phase>  | 105  |
| up to 5 indoor units<br>MXZ-5E102VA     |    | 10.2kW<br><1-phase> | 105  |
| up to 6 indoor units<br>MXZ-6D122VA     |    | 12.2kW<br><1-phase> | 105  |
| up to 2 indoor units<br>MXZ-2DM40VA     | •  | 4.0kW<br><1-phase>  | 109  |
| up to 3 indoor units<br>MXZ-3DM50VA     | 0  | 5.0kW<br><1-phase>  | 109  |

#### PUMY SERIES INVERTER Models

| Model Name       | 12.5kW<br>1 & 3-phase | 14.0kW<br>1 & 3-phase | 15.5kW<br>1 & 3-phase | 22.4kW<br>3-phase | - Page |
|------------------|-----------------------|-----------------------|-----------------------|-------------------|--------|
| PUMY-SP<br>R410A | /                     | 1                     | 1                     |                   | 111    |
| PUMY-P<br>R410A  | /                     | <b>✓</b>              | <b>✓</b>              | <b>✓</b>          | 113    |

# POWERFUL HEATING SERIES INVERTER Models

| Model Nam |                   |   | 2.5kW   | 3.5kW   | 5.0kW   | 5.3kW   | 8.3kW   | 10.0kW       | 12.5kW  | Page  |
|-----------|-------------------|---|---------|---------|---------|---------|---------|--------------|---------|-------|
| Woder Nam | ie                |   | 1-phase | 1-phase | 1-phase | 1-phase | 1-phase | 1- & 3-phase | 3-phase | i age |
|           |                   | MSZ-L VGHZ Series R32 R410A *                       | SINGLE  | SINGLE  | SINGLE  |         |         |              |         | 121   |
| Wal       | ll-mounted        | MSZ-FT VGHZ Series                                  | SINGLE  | SINGLE  | SINGLE  |         |         |              |         | 123   |
|           |                   | MSZ-F VEHZ Series                                   | SINGLE  | SINGLE  | SINGLE  |         |         |              |         | 125   |
| Con       | mpact floor       | MFZ VEHZ Series                                     | SINGLE  | SINGLE  | SINGLE  |         |         |              |         | 127   |
|           | 4-way cassette    | PLA Series R32 R410A                                |         |         |         |         |         | SINGLE       | SINGLE  | 130   |
| ZUBADAN   | Ceiling-concealed | PEAD Series R32 R410A                               |         |         |         |         |         | SINGLE       |         | 132   |
|           | Wall-mounted      | PKA Series R32 R410A                                |         |         |         |         |         | SINGLE       |         | 133   |
| Mul       | lti split         | MXZ-F VFHZ Series<br>MXZ-E VAHZ Series<br>R32 R410A |         |         |         | 2PORT H | 4PORT H |              |         | 134   |

#### **Indoor Combinations**

SINGLE 1 outdoor unit & 1 indoor unit

TWIN 1 outdoor unit & 2 indoor units



TRIPLE 1 outdoor unit & 3 indoor units QUADRUPLE 1 outdoor unit & 4 indoor units

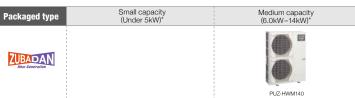
#### **AIR TO WATER SERIES**



#### **INDOOR UNIT**

Hydro box, cylinder unit

#### **OUTDOOR UNIT**









| Spli | t ty | pe |
|------|------|----|
|      |      |    |
|      |      |    |



















\*Rated capacity is at conditions A2W35. (according to EN14511)

#### **R410A INDOOR UNIT**

#### Hydro box, cylinder unit



#### **OUTDOOR UNIT**

| Split type                 | Medium (<br>(7.5kW– | capacity<br>14kW)* | Large capacity<br>(≧16kW)* |
|----------------------------|---------------------|--------------------|----------------------------|
| ZUBADAN<br>Teor dancertion | PUHZ-SHW80/112      | PUHZ:SHW140        | PUHZ-SHW230                |
| POWER BAYERTER             | PUHZ-SW75/100       | PuHz-SW120         | PUHZ-SW160/200             |

\*Rated capacity is at conditions A2W35. (according to EN14511)

| Other ATW-related system | Mr.SLIM+   | PUMY + ecodan     | ecodan geodan |
|--------------------------|------------|-------------------|---------------|
|                          | R410A      | R410A             | R32           |
|                          |            | 0                 |               |
|                          | PUHZ-FRP71 | PUMY-P112/125/140 | EHGT17D-YM9ED |

#### **LOSSNAY** SERIES

|                |                 | Centralized          | Ventilation                   |              |                 | Decentralized | Ventilation                |
|----------------|-----------------|----------------------|-------------------------------|--------------|-----------------|---------------|----------------------------|
|                | (               | Ceiling Concealed Ty | ре                            |              | Vertical Type   | Wall Moun     | ed Type                    |
| LGH-RVX Series | LGH-RVXT Series | GUF Series           | GUG Series<br>(Optional Unit) | VI-220CZGV-E | VL-CZPVU Series | VL-100(E)Us-E | VL-50(E)S2-E<br>VL-50SR2-E |



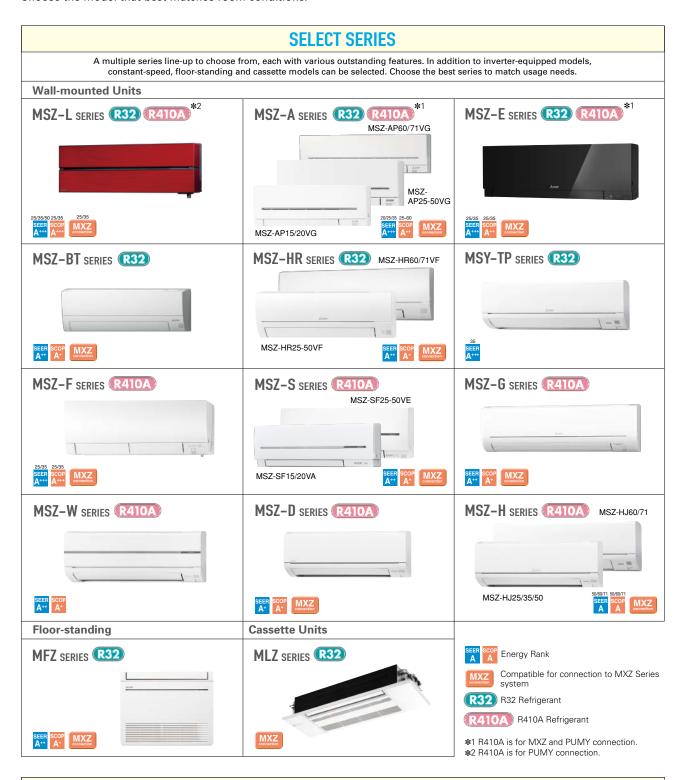






#### **SELECTION**

Choose the model that best matches room conditions.



#### **SELECT OUTDOOR UNIT**

Some outdoor units in the line-up have heaters for use in cold regions. Units with an "H" in the model name are equipped with heaters.

#### Heater Installed

MUZ-AP25/35/42/50VGH MUZ-EF25/35VGH MUZ-SF25/35/42/50VEH



MUZ-LN25/35VG

#### Hyper Heating

MUZ-LN25/35/50VGHZ MUZ-FH25/35/50VEHZ MUFZ-KJ25/35/50VEHZ



#### Selecting a Heater-equipped Model

In regions with the following conditions, there is a possibility that water resulting from condensation on the outdoor unit when operating in the heating mode will freeze and not drain from the base.

- 1) Cold outdoor temperatures (temperature does not rise above 0°C all day)
- Areas where dew forms easily (in the mountains, valleys(surrounded by mountains), near a forest, near unfrozen lakes, ponds, rivers or hot springs), or areas with snowfall.

To prevent water from freezing in the base, it is recommended that a unit with a built-in heater be purchased. Please ask your dealer representative about the best model for you.



# MSZ-L SERIES



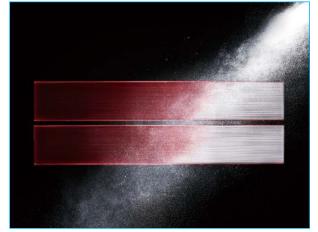


Developed to complement modern interior room décor, the LN Series is available in four colours specially chosen to blend in naturally wherever installed. Not only the sophisticated design, but also the optimum energy efficiency and operational comfort add even more value to this series.



#### **Luminous and Luxurious Design**

Natural White, Pearl White, Ruby Red, and Onyx Black. LN Series indoor units are available in four colours to match various lifestyles. The appearance of the indoor unit differs depending on the lighting in the room, attracting the attention of everyone that enters the room.



Master craftsmanship painting technology has resulted in a refined design, giving the finish deep colour and a premium quality feel.



Pearl White blends in with any interior.



Ruby Red gives an accent to the room, affording timeless elegance to sophisticated interiors.



Onyx Black matches darker interiors, creating a comfortable environment.

#### **LED Backlight Remote Controller**

Not only the indoor units, but the wireless remote controllers come in four colours as well. Each remote controller matches the indoor unit. Even the textures are the same.

The setting can be easily checked in the dark.











x Na k W

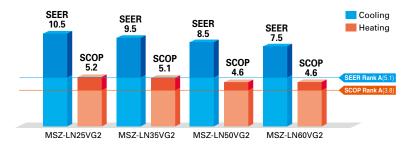
#### **High Energy Efficiency**





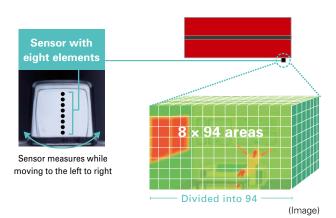


Optimum cooling/heating performance is another feature for the LN series. Models from capacities 25 to 50 have achieved the "Rank A+++" for SEER, and models for capacities 25 and 35 have achieved the "Rank A+++" for SCOP as well.



#### 3D i-see Sensor

The LN Series is equipped with 3D i-see Sensor, an infrared-ray sensor that measures the temperature at distant positions. While moving to the left and right, eight vertically arranged sensor elements analyze the room temperature in three dimensions. This detailed analysis makes it possible to judge where people are in the room, thus allowing creation of features such as "Indirect airflow," to avoid airflow hitting people directly, and "direct airflow" to deliver airflow to where people are.



### **Indirect Airflow**

The indirect airflow setting can be used when the flow of air feels too strong or direct. For example, it can be used during cooling to avert airflow and prevent body temperature from becoming excessively cooled.

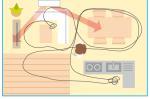


#### **Direct Airflow**

This setting can be used to directly target airflow at people such as for immediate comfort when coming indoors on a hot



Even Airflow \*LN Series only Normal swing mode



The airflow is distributed equally throughout the room, even to spaces where there is no human movement.

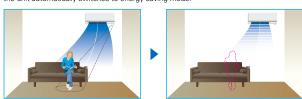
Even airflow mode



The 3D i-see sensor memorizes human movement and furniture positions, and efficiently distributes airflow.

#### No occupancy energy-saving mode

The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.



The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60 minutes

#### No occupany Auto-OFF mode \*LN Series only

The sensors detect whether or not there are people in the room. When there is no one in the room, the unit turns off automatically.





#### **Circulator Operation**

In case the indoor temperature reaches the setting temperature, the outdoor unit stops and the indoor unit starts FAN operation to circulate the indoor air.

The outdoor unit starts operation automatically when the indoor temperature drops below the setting temperature.



If the heating operation is continued, the warm air is formed around ceiling



(MSZ-LN18/25/35/50/60VG-SC Scandinavian model)

This operating can help to circulate and rense

14

# Plasma Quad Plus

Plasma Quad Plus is a plasma-based filter system that effectively removes six kinds of air pollutants. Plasma Quad Plus captures mold and allergens more effectively than Plasma Quad. It can also capture PM2.5 and particles smaller than 2.5µm, creating healthy living spaces for all.

#### Bacteria



Test results have confirmed that Plasma Quad Plus neutralizes 99% of bacteria in 162 minutes in a  $25 \mathrm{m}^3$  test space.

<Test No.> KRCES-Bio. Test Report No. 2016-0118

#### Viruses



Test results have confirmed that Plasma Quad Plus neutralizes 99% of virus particles in 72 minutes in a 25m³ test space.

<Test No.> vrc.center, SMC No. 28-002

#### Molds



Test results have confirmed that Plasma Quad Plus neutralizes 99% of mold in 135 minutes in a 25m<sup>3</sup> test space.

<Test No.> Japan Food Research Laboratories Test Report No. 16069353001-0201

#### Allergens



In a test, air containing cat fur and pollen was passed through the air cleaning device at the low airflow setting. Before and after measurements confirm that Plasma Quad Plus neutralizes 98% of cat fur and pollen.

<Test No.> ITEA Report No. T1606028

#### PM2.5



Test results have confirmed that Plasma Quad Plus removes 99% of PM2.5 in 145 minutes in a 28m<sup>3</sup> test space.

<In-company investigation>

#### Dust



Test results have confirmed that Plasma Quad Plus removes 99.7% of dust and mites.

<Test No.> ITEA Report No. T1606028

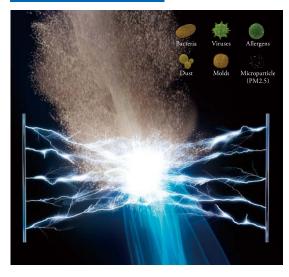
| Model     | Name             | Method           | Bacteria | Viruses | Molds | Allergens | Dust | PM2.5* |
|-----------|------------------|------------------|----------|---------|-------|-----------|------|--------|
| FH Series | Plasma Quad      | One-Stage Plasma | А        | А       | В     | В         | С    |        |
| LN Series | Plasma Quad Plus | Two-Stage Plasma | А        | А       | А     | А         | А    | А      |

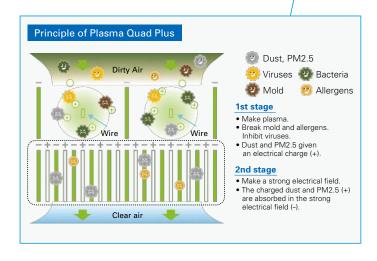
- A: Highly effective
- B: Effective
- C: Partially effective

\*PM2.5:

Particles smaller than 2.5µm

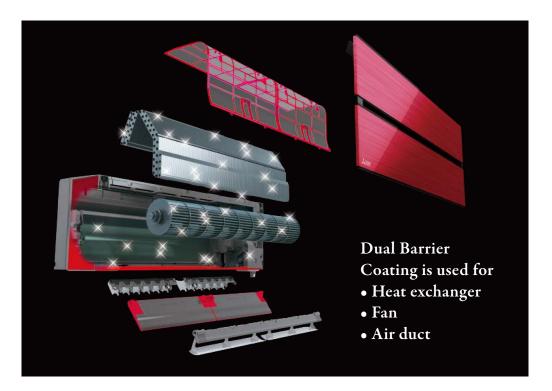
#### Image of Plasma Quad Plus





# **Dual Barrier Coating**

A two-barrier coating prevents dust and greasy dirt from getting into the air conditioner.



#### State-of-the-art coating technology

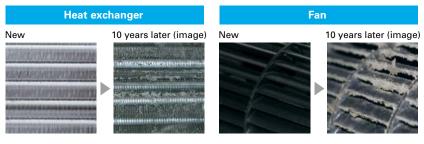
Dirt is generally classified into two groups: hydrophilic dirt such as fiber dust and sand dust, and hydrophobic dirt such as oil and cigarette smoke. Mitsubishi Electric's dual barrier coating works as a two-barrier coating with blended "fluorine particles" that prevent hydrophilic dirt penetration and "hydrophilic particles" that prevent hydrophobic dirt from getting into the air conditioner. This dual coating on the inner surface keeps the air conditioner clean year-round.



#### Comparison of dirt on heat exchanger, fan and air duct (in-house comparison)







#### Consequences when the inside of the indoor unit is left dirty.

- Deterioration in energy efficiency.
- Musty smell from the unit.

#### **Double Flap**

The vanes create various airflows to make each person in the room comfortable. Not only the horizontal vanes, but also the vertical vanes move independently, eliminating hot spots or cold spots throughout the room.

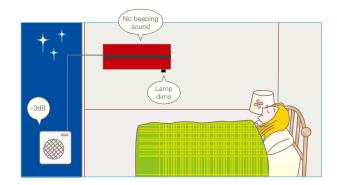




#### Night Mode

When Night Mode is activated using the wireless remote controller, air conditioner operation will switch to the following settings.

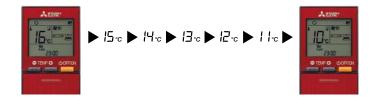
- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will drop to 3dB lower than the rated operating noise specification.



#### 10°C Heating

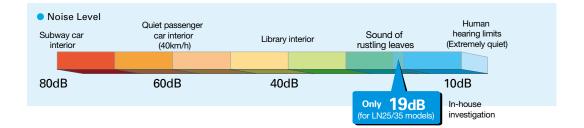
During heating operation, the temperature can be set in 1°C increments down to 10°C.

This function can also be used with the Weekly Timer setting.



#### **Quiet Operation**

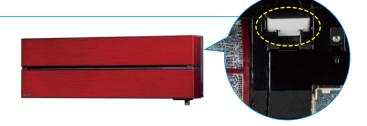
The indoor unit noise level is as low as 19dB for LN25/35 models, offering a peaceful inside environment.



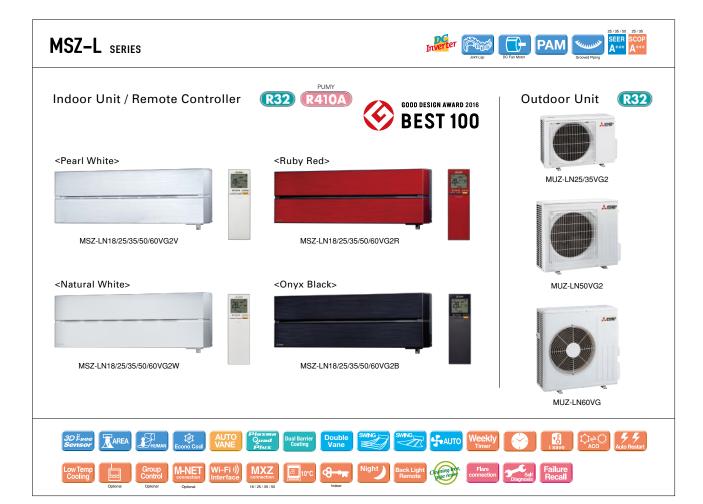
#### Built-in Wi-Fi Interface

The indoor unit is equipped with a Wi-Fi Interface inside an exclusive pocket in the unit.

This eliminates the need to install a Wi-Fi interface, and also contributes to the beautiful appearance since the interface is hidden.



<sup>\*</sup>The cooling/heating capacity may drop.



| Туре       |                                       |                                 |        |                               |                               | Inverter Heat Pump                             |                               |                               |
|------------|---------------------------------------|---------------------------------|--------|-------------------------------|-------------------------------|--|-------------------------------|-------------------------------|
| Indoor Ur  | nit                                   |                                 |        | MSZ-LN18VG2                   | MSZ-LN25VG2                   | MSZ-LN35VG2                                    | MSZ-LN50VG2                   | MSZ-LN60VG2                   |
| Outdoor    | Unit                                  |                                 |        | for MXZ connection            | MUZ-LN25VG2                   | MUZ-LN35VG2                                    | MUZ-LN50VG2                   | MUZ-LN60VG                    |
| Refrigera  | nt                                    |                                 |        |                               | Sir                           | ngle: R32 <sup>(1)</sup> / Multi: R410A or R32 | 2 <sup>(-1)</sup>             |                               |
| Power      | Source                                |                                 |        |                               |                               | Outdoor Power Supply                           |                               | -                             |
| Supply     | Outdoor (V / Ph                       | ase / Hz )                      |        |                               |                               | 230 / Single / 50                              |                               |                               |
|            | Design load                           |                                 | kW     | _                             | 2.5                           | 3.5  | 5.0                           | 6.1                           |
|            | Annual electricity                    | consumption (*2)                | kWh/a  | _                             | 83                            | 129  | 205                           | 285                           |
|            | SEER (*4)                             |                                 |        | _                             | 10.5                          | 9.5  | 8.5                           | 7.5                           |
| Cooling    |                                       | Energy efficiency class         |        | _                             | A+++                          | A+++   | A+++                          | A++                           |
|            |                                       | Rated                           | kW     | -                             | 2.5                           | 3.5  | 5.0                           | 6.1                           |
|            | Capacity                              | Min-Max                         | kW     | -                             | 1.0 - 3.5                     | 0.8 - 4.0                                      | 1.0 - 6.0                     | 1.4 - 6.9                     |
|            | Total Input                           | Rated                           | kW     | _                             | 0.485                         | 0.820  | 1.380                         | 1.790                         |
|            | Design load                           |                                 | kW     | _                             | 3.0 (-10°C)                   | 3.6 (-10°C)                                    | 4.5 (-10°C)                   | 6.0 (-10°C)                   |
|            |                                       | at reference design temperature | _      | _                             | 3.0 (-10°C)                   | 3.6 (-10°C)                                    | 4.5 (-10°C)                   | 6.0 (-10°C)                   |
|            | Declared                              | at bivalent temperature         | kW     | =-                            | 3.0 (-10°C)                   | 3.6 (-10°C)                                    | 4.5 (-10°C)                   | 6.0 (-10°C)                   |
|            | Capacity                              | at operation limit temperature  | kW     | -                             | 2.5 (-15°C)                   | 3.2 (-15°C)                                    | 4.2 (-15°C)                   | 6.0 (-15°C)                   |
| leating    | Back up heating                       | and the same of the same of     | kW     | -                             | 0.0 (-10°C)                   | 0.0 (-10°C)                                    | 0.0 (-10°C)                   | 0.0 (-10°C)                   |
| Average    | Annual electricity                    |                                 | kWh/a  | -                             | 807                           | 987  | 1369                          | 1826                          |
| eason)(*5) | SCOP (*4)                             |                                 |        | _                             | 5.2                           | 5.1  | 4.6                           | 4.6                           |
|            |                                       | Energy efficiency class         |        | _                             | A+++                          | A+++   | A++                           | A++                           |
|            |                                       | Rated                           | kW     | _                             | 3.2                           | 4.0  | 6.0                           | 6.8                           |
|            | Capacity                              | Min-Max                         | kW     | =                             | 0.7 - 5.4                     | 0.9 - 6.3                                      | 1.0 - 8.2                     | 1.8 - 9.3                     |
|            | Total Input Rated                     |                                 | kW     | =                             | 0.600                         | 0.820  | 1.480                         | 1,810                         |
| Operatin   | g Current (Max)                       |                                 | A      | _                             | 7.1                           | 9.9  | 13.9                          | 15.2                          |
|            | Input Rated                           |                                 | kW     | 0.027                         | 0.027                         | 0.027  | 0.034                         | 0.040                         |
|            | Operating Curre                       | ent(Max)                        | A      | 0.3                           | 0.3                           | 0.3  | 0.4                           | 0.4                           |
|            | Dimensions                            | H*W*D                           | mm     | 307-890-233                   | 307-890-233                   | 307-890-233                                    | 307-890-233                   | 307-890-233                   |
|            | Weight                                |                                 | kg     | 14.5 (W) 15.5 (V, R, B)       | 14.5 (W) 15.5 (V, R, B)       | 14.5 (W) 15.5 (V, R, B)                        | 15 (W) 16 (V, R, B)           | 15 (W) 16 (V, R, B)           |
| ndoor      | Air Volume (SLo-Lo-                   | Cooling                         | m³/min | 4.7 - 5.9 - 7.1 - 9.2 - 12.4  | 4.7 - 5.9 - 7.1 - 9.2 - 12.4  | 4.7 - 5.9 - 7.1 - 9.2 - 13.0                   | 5.7 - 7.6 - 8.8 - 10.6 - 13.9 | 7.1 - 8.8 - 10.6 - 12.7 - 15. |
| Jnit       | Mid-Hi-SHi <sup>(*3)</sup> (Dry/Wet)) | Heating                         | m³/min | 4.5 - 6.6 - 7.5 - 11.0 - 13.9 | 4.5 - 6.6 - 7.5 - 11.0 - 13.9 | 4.5 - 6.6 - 7.5 - 11.0 - 13.9                  | 5.4 - 6.4 - 8.5 - 10.7 - 15.7 | 6.6 - 9.5 - 11.5 - 13.6 - 15. |
|            | Sound Level (SPL)                     | Cooling                         | dB(A)  | 19 - 23 - 29 - 36 - 42        | 19 - 23 - 29 - 36 - 42        | 19 - 24 - 29 - 36 - 43                         | 27 - 31 - 35 - 39 - 46        | 29 - 37 - 41 - 45 - 49        |
|            | (SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )  | Heating                         | dB(A)  | 19 - 24 - 29 - 38 - 45        | 19 - 24 - 29 - 38 - 45        | 19 - 24 - 29 - 38 - 45                         | 25 - 29 - 34 - 39 - 47        | 29 - 37 - 41 - 45 - 49        |
|            | Sound Level (PWL)                     | Cooling                         | dB(A)  | 58                            | 58                            | 59   | 60                            | 65                            |
|            | Dimensions                            | H*W*D                           | mm     | -                             | 550-800-285                   | 550-800-285                                    | 714-800-285                   | 880-840-330                   |
|            | Weight                                |                                 | kg     | =                             | 33                            | 34   | 40                            | 55                            |
|            | - T                                   | Cooling                         | m³/min | =                             | 34.3                          | 34.3   | 40.0                          | 50.1                          |
|            | Air Volume                            | Heating                         | m³/min | =                             | 32.7                          | 32.7   | 40.5                          | 51.3                          |
| Outdoor    |                                       | Cooling                         | dB(A)  | =                             | 46                            | 49   | 51                            | 55                            |
| Jnit       | Sound Level (SPL)                     | Heating                         | dB(A)  | =                             | 49                            | 50   | 54                            | 55                            |
|            | Sound Level (PWL)                     |                                 | dB(A)  | -                             | 60                            | 61   | 64                            | 65                            |
|            | Operating Curre                       |                                 | Α Α    | -                             | 6.8                           | 9.6  | 13.5                          | 14.8                          |
|            | Breaker Size                          |                                 | A      | -                             | 10                            | 10   | 16                            | 16                            |
|            | Diameter                              | Liquid/Gas                      | mm     | _                             | 6.35/9.52                     | 6.35/9.52                                      | 6.35/9.52                     | 6.35/12.7                     |
| xt.        | Max.Length                            | Out-In                          | m      | =                             | 20                            | 20   | 30                            | 30                            |
| Piping     | Max.Height                            | Out-In                          | m      | _                             | 12                            | 12   | 12                            | 15                            |
| Guaranta   | eed Operating                         | Cooling                         | *C     | =                             | -10 ~ +46                     | -10 ~ +46                                      | -10 ~ +46                     | -10 ~ +46                     |
|            | Outdoor)                              | Gooling Heating                 |        |                               | -15 ~ +24                     | -15 ~ +24                                      | -15 ~ +24                     | -15 ~ +24                     |

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or Gassassmible the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) SHE, Super High
(\*4) SEER, SOOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(\*5) Please see page 51-52 for heating (warmer season) specifications.

# MSZ-A SERIES

Introducing a compact and stylish indoor unit with various capacity, designed to match number of rooms. High performance indoor and outdoor units enabled to achieve "Rank A $^{+++}$ " for SEER. \*MSZ-AP20/25/35VG





MSZ-AP25/35/42/50VG



MSZ-AP60/71VG



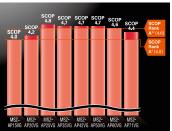




#### High energy saving

The classes from the low-capacity 25 to the high-capacity 60, have achieved either the "Rank  $A^{+++}$ " or "Rank  $A^{++}$ " for SEER and SCOP as energy-savings rating. Our air conditioners are contributing to reduce energy consumption in a wide range.







#### Compact and stylish

All the classes are introduced as single-split and multi-systems. From small rooms to living rooms, it is possible to coordinate residences with a unified design.









#### Evolved comfortable convenience function

# Horizontal Airflow

The new airflow control which spreads across the ceiling eliminates the uncomfortable drafty feeling.

#### **Auto Vane Control**



Auto vanes can be moved left and right, and up and down using the remote controller.\*

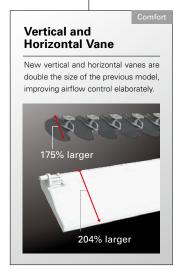
#### The Function

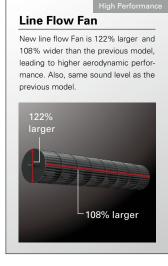


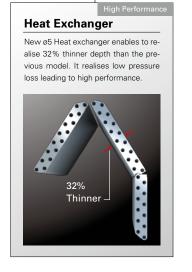
\*Only for 25/35/42/50/60/71 models.

#### High performance and compact size are realised by refining all parts









#### "Weekly Timer"



Easily set desired temperatures and operation start/stop times to match lifestyle patterns. Reduce wasted energy consumption by using the timer to prevent forgetting to turn off the unit and eliminate temperature setting adjustments.

#### ■ Example Operation Pattern (Winter/Heating mode)

|                         | Mo  | on.  | Tues.              | Wed.                     | Thurs.                | Fri.                 | Sat.                       | Sun.   |
|-------------------------|-----|------|--------------------|--------------------------|-----------------------|----------------------|----------------------------|--|
| 6:00                    | ON  | 20°C | ON 20°C            | ON 20°C                  | ON 20°C               | ON 20°C              | ON 20°C                    | ON 20°C  |
|                         | [   |      |                    | Automatically change     | s to high-power opera | tion at wake-up time |                            |  |
| 8:00                    |     |      |                    |                          |                       |                      |                            |  |
| 10:00                   | _   |      | 055                | 055                      | 0.55                  | 055                  | 011 4000                   | 011 4000   |
| 15:00                   | O   | FF   | OFF                | OFF                      | OFF                   | OFF                  | ON 18°C  Midday is warmer, | ON 18°C  |
| 14:00                   |     |      | Automatio          | ally turned off during w | ork hours             |                      | so the temperature         |  |
| (b:00                   |     |      |                    |                          |                       |                      |                            |  |
|                         |     |      |                    |                          |                       |                      |                            |  |
| (8:00                   | ON  | 20°C | ON 20°C            | ON 20°C                  | ON 20°C               | ON 20°C              | ON 20°C                    | ON 20°C  |
| 50:00                   |     |      | Automatically turi | ns on, synchronized wi   | th arrival at home    |                      | Automatically raises ten   | perature setting to<br>de-air temperature is low |
| 22:00                   | L   |      | ,                  | . ,                      |                       |                      | match time when outsit     | le-all temperature is low                        |
| (during sleeping hours) | ON  | 18°C | ON 18°C            | ON 18°C                  | ON 18°C               | ON 18°C              | ON 18°C                    | ON 18°C  |
|                         | J., |      |                    | atically lowers tempera  |                       |                      |                            | 3.1 10 0   |
|                         |     |      |                    |                          |                       |                      | _                          |  |

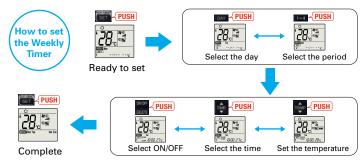
Settings

Pattern Settings: Input up to four settings for each day

**Settings:** •Start/Stop operation •Temperature setting \*The operation mode cannot be set.

#### ■ Easy set-up using dedicated buttons



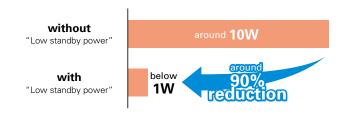


- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button yafter inputting all of the desired patterns into the remote controller memory. Pushing the "CANCEL" button will end the set-up process without sending the operation patterns to the indoor unit).

  It takes a few seconds to transmit the Weekly Timer operation patterns to the indoor unit.
- Please continue to point the remote controller at the indoor unit until all data has been sent.
- •When "Weekly Timer" is set, temperature can not be set 10°C. (only for 15/20 models)

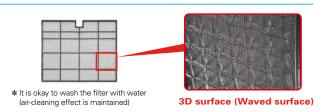
#### Low Standby Power

Electrical devices consume standby power even when they are not in actual use. While we obviously strive to reduce power consumption during actual use, reducing this wasted power that cannot be seen is also very important.



#### Air Purifying Filter

This filter generates stable antibacterial and deodourising effects. The size of the three-dimensional surface has been increased as well, enlarging the filter capture area. These features give the Air Purifying Filter better dust collection performance than conventional filters. The superior air-cleaning effectiveness raises room comfort yet another level.

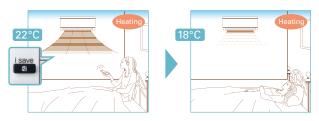


(MSZ-AP25/35/42/50/60/71)

#### "i save" Mode



"i save" is a simplified setting function that recalls the preferred (preset) temperature by pressing a single button on the remote controller. Press the same button twice in repetition to immediately return to the previous temperature setting. Using this function contributes to comfortable, waste-free operation, realising the most suitable air conditioning settings and saving on power consumption when, for example, leaving the room or going to bed.



\* Temperature can be preset to 10°C when heating in the "i-save" mode.

#### **Outdoor Units for Cold Region**

(MSZ-AP25/35/42/50)

Single split-type outdoor units are available in both standard and heater-equipped units. An electric heater is installed in each unit to prevent freezing in cold outdoor environments.



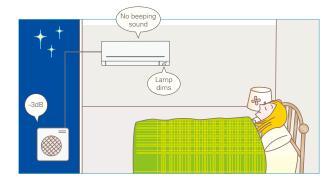
#### Night Mode

(MSZ-AP20/25/35/42/50/60/71)



When Night Mode is activated using the wireless remote controller, air conditioner operation will switch to the following settings.

- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will drop to 3dB lower than the rated operating noise specification.



#### **Quiet Operation**

The indoor unit noise level is as low as 19dB for AP Series, offering a peaceful inside environment.



#### Built-in Wi-Fi Interface

(MSZ-AP15/20/25/35/42/50/60/71VGK)



The indoor unit is equipped with a Wi-Fi Interface inside an exclusive pocket in the unit.

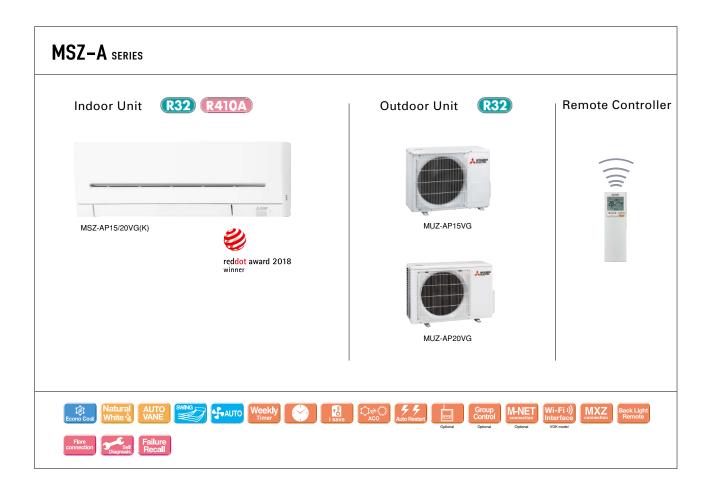
This eliminates the need to install a Wi-Fi interface, and also contributes to the beautiful appearance since the interface is hidden.

#### **LED Backlight Remote Controller**



Blacklight function incorporated, making screen easy to read in the dark. Even in dimly lit rooms, the screen can be seen clearly for trouble-free remote controller operation.

<sup>\*</sup>The cooling/heating capacity may drop.



| Туре       |                                       |                                       | _      |                             |                             | Inverter H                        | leat Pump                    |                              |                            |
|------------|---------------------------------------|---------------------------------------|--------|-----------------------------|-----------------------------|-----------------------------------|------------------------------|------------------------------|----------------------------|
| Indoor Ur  | nit                                   | · · · · · · · · · · · · · · · · · · · |        | MSZ-AP15VG(K)               | MSZ-AP20VG(K)               | MSZ-AP25VG(K)                     | MSZ-AP25VG(K)                | MSZ-AP35VG(K)                | MSZ-AP35VG(K)              |
| Outdoor I  | Jnit                                  |                                       |        | MUZ-AP15VG                  | MUZ-AP20VG                  | MUZ-AP25VG                        | MUZ-AP25VGH                  | MUZ-AP35VG                   | MUZ-AP35VGH                |
| Refrigera  | nt                                    | -                                     |        |                             |                             | Single: R32 <sup>(*1)</sup> / Mul | l                            |                              |                            |
| Power      | Source                                | -                                     |        |                             |                             | Outdoor Po                        | ower supply                  |                              |                            |
| Supply     | Outdoor (V / Ph                       | ase / Hz )                            |        |                             |                             | 230 / Si                          | ngle / 50                    |                              |                            |
|            | Design load                           | •                                     | kW     | 1.5                         | 2.0                         | 2.5                               | 2.5                          | 3.5                          | 3.5                        |
|            | Annual electricity                    | consumption (*2)                      | kWh/a  | 72                          | 81                          | 101                               | 101                          | 142                          | 142                        |
|            | SEER (*4)                             |                                       |        | 7.2                         | 8.6                         | 8.6                               | 8.6                          | 8.6                          | 8.6                        |
| Cooling    |                                       | Energy efficiency class               |        | A++                         | A+++                        | A+++                              | A+++                         | A+++                         | A+++                       |
|            |                                       | Rated                                 | kW     | 1.5                         | 2.0                         | 2.5                               | 2.5                          | 3.5                          | 3.5                        |
|            | Capacity                              | Min-Max                               | kW     | 0.5-2.2                     | 0.6-2.7                     | 0.9-3.4                           | 0.9-3.4                      | 1.1-3.8                      | 1.1-3.8                    |
|            | Total Input                           | Rated                                 | kW     | 0.370                       | 0.460                       | 0.600                             | 0.600                        | 0.990                        | 0.990                      |
|            | Design load                           |                                       | kW     | 1.6 (-10°C)                 | 2.3 (-10°C)                 | 2.4 (-10°C)                       | 2.4 (-10°C)                  | 2.9 (-10°C)                  | 2.9 (-10°C)                |
|            | DII                                   | at reference design temperature       | kW     | 1.6 (-10°C)                 | 2.3 (-10°C)                 | 2.4 (-10°C)                       | 2.4 (-10°C)                  | 2.9 (-10°C)                  | 2.9 (-10°C)                |
|            | Declared<br>Capacity                  | at bivalent temperature               | kW     | 1.6 (-10°C)                 | 2.3 (-10°C)                 | 2.4 (-10°C)                       | 2.4 (-10°C)                  | 2.9 (-10°C)                  | 2.9 (-10°C)                |
|            | Capacity                              | at operation limit temperature        | kW     | 1.6 (-15°C)                 | 2.2 (-15°C)                 | 2.4 (-15°C)                       | 2.2 (-20°C)                  | 2.6 (-15°C)                  | 2.4 (-20°C)                |
| leating    | Back up heating                       | capacity                              | kW     | 0.0 (-10°C)                 | 0.0 (-10°C)                 | 0.0 (-10°C)                       | 0.0 (-10°C)                  | 0.0 (-10°C)                  | 0.0 (-10°C)                |
| Average    | Annual electricity                    | consumption (*2)                      | kWh/a  | 559                         | 766                         | 698                               | 703                          | 862                          | 873                        |
| eason)(*5) | SCOP (*4)                             |                                       |        | 4.0                         | 4.2                         | 4.8                               | 4.7                          | 4.7                          | 4.6                        |
|            |                                       | Energy efficiency class               |        | A+                          | A+                          | A++                               | A++                          | A++                          | A++                        |
|            | Capacity                              | Rated                                 | kW     | 2.0                         | 2.5                         | 3.2                               | 3.2                          | 4.0                          | 4.0                        |
|            | Сарасну                               | Min-Max                               | kW     | 0.5-3.1                     | 0.5-3.5                     | 1.0-4.1                           | 1.0-4.1                      | 1.3-4.6                      | 1.3-4.6                    |
|            | Total Input                           | Rated                                 | kW     | 0.500                       | 0.600                       | 0.780                             | 0.780                        | 1.030                        | 1.030                      |
| peratin    | g Current (Max)                       |                                       | Α      | 5.5                         | 7.0                         | 7.1                               | 7.1                          | 8.5                          | 8.5                        |
|            |                                       |                                       | kW     | 0.017                       | 0.019                       | 0.026                             | 0.026                        | 0.026                        | 0.026                      |
| 1          | Operating Curre                       |                                       | Α      | 0.17                        | 0.2                         | 0.3                               | 0.3                          | 0.3                          | 0.3                        |
|            | Dimensions                            | H*W*D                                 | mm     | 250-760-178                 | 250-760-178                 | 299-798-219                       | 299-798-219                  | 299-798-219                  | 299-798-219                |
| ndoor      | Weight                                |                                       | kg     | 8.2                         | 8.2                         | 10.5                              | 10.5                         | 10.5                         | 10.5                       |
| Jnit       | Air Volume (SLo-Lo-                   | Cooling                               | m³/min | 3.5 - 3.9 - 4.6 - 5.5 - 6.4 | 3.5 - 3.9 - 4.6 - 5.5 - 6.9 | 4.9 - 5.9 - 7.1 - 8.7 - 11.4      | 4.9 - 5.9 - 7.1 - 8.7 - 11.4 | 4.9 - 5.9 - 7.1 - 8.7 - 11.4 | 4.9 - 5.9 - 7.1 - 8.7 - 11 |
|            | Mid-Hi-SHi <sup>(*3)</sup> (Dry/Wet)) | Heating                               | m³/min | 3.7 - 4.4 - 5.0 - 6.0 - 6.8 | 3.7 - 4.4 - 5.0 - 6.0 - 7.3 | 4.9 - 5.9 - 7.3 - 8.9 - 12.9      | 4.9 - 5.9 - 7.3 - 8.9 - 12.9 | 4.9 - 5.9 - 7.3 - 8.9 - 12.9 | 4.9 - 5.9 - 7.3 - 8.9 - 12 |
|            | Sound Level (SPL)                     | Cooling                               | dB(A)  | 21 - 26 - 30 - 35 - 40      | 21 - 26 - 30 - 35 - 42      | 19 - 24 - 30 - 36 - 42            | 19 - 24 - 30 - 36 - 42       | 19 - 24 - 30 - 36 - 42       | 19 - 24 - 30 - 36 - 42     |
|            | (SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )  | Heating                               | dB(A)  | 21 - 26 - 30 - 35 - 40      | 21 - 26 - 30 - 35 - 42      | 19 - 24 - 34 - 39 - 45            | 19 - 24 - 34 - 39 - 45       | 19 - 24 - 31 - 38 - 45       | 19 - 24 - 31 - 38 - 45     |
|            | Sound Level (PWL)                     | Cooling                               | dB(A)  | 59                          | 60                          | 57                                | 57                           | 57                           | 57                         |
|            | Dimensions                            | H*W*D                                 | mm     | 538-699-249                 | 550-800-285                 | 550-800-285                       | 550-800-285                  | 550-800-285                  | 550-800-285                |
|            | Weight                                | T                                     | kg     | 23                          | 31                          | 31                                | 31                           | 31                           | 31                         |
|            | Air Volume                            | Cooling                               | m³/min | 26                          | 32.2                        | 32.2                              | 32.2                         | 32.2                         | 32.2                       |
| Outdoor    |                                       | Heating                               | m³/min | 21                          | 29.8                        | 29.8                              | 29.8                         | 33.8                         | 33.8                       |
| Jnit       | Sound Level (SPL)                     | Cooling                               | dB(A)  | 50                          | 47                          | 47                                | 47                           | 49                           | 49                         |
|            | · · · · · · · · · · · · · · · · · · · | Heating                               | dB(A)  | 50                          | 48                          | 48                                | 48                           | 50                           | 50                         |
|            | Sound Level (PWL)                     | Cooling                               | dB(A)  | 63                          | 59                          | 59                                | 59                           | 61                           | 61                         |
|            | Operating Curre                       | ent (Max)                             | A      | 5.3                         | 6.8                         | 6.8                               | 6.8                          | 8.2                          | 8.2                        |
|            | Breaker Size                          | T                                     | Α      | 10                          | 10                          | 10                                | 10                           | 10                           | 10                         |
| xt.        | Diameter                              | Liquid/Gas                            | mm     | 6.35 / 9.52                 | 6.35 / 9.52                 | 6.35 / 9.52                       | 6.35 / 9.52                  | 6.35 / 9.52                  | 6.35 / 9.52                |
| Piping     | Max.Length                            | Out-In                                | m      | 20                          | 20                          | 20                                | 20                           | 20                           | 20                         |
|            | Max.Height                            | Out-In                                | m      | 12                          | 12                          | 12                                | 12                           | 12                           | 12                         |
|            | ed Operating                          | Cooling                               | °C     | -10 ~ +46                   | -10 ~ +46                   | -10 ~ +46                         | -10 ~ +46                    | -10 ~ +46                    | -10 ~ +46                  |
| Range (C   | utaoor)                               | Heating                               | °C     | -15 ~ +24                   | -15 ~ +24                   | -15 ~ +24                         | -20 ~ +24                    | -15 ~ +24                    | -20 ~ +24                  |

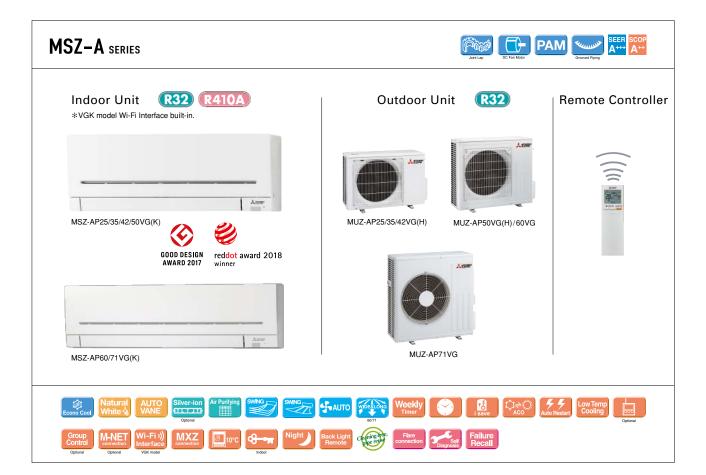
<sup>(1)</sup> Refigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R32 is 675 in the IPCC 4th Assessment Report.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) Shit: Super High

(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".



| Туре            |                                       |                                 |        |                              |                              | Inverter F                        | leat Pump                     |                                 |                               |
|-----------------|---------------------------------------|---------------------------------|--------|------------------------------|------------------------------|-----------------------------------|-------------------------------|---------------------------------|-------------------------------|
| Indoor Ur       | nit                                   |                                 |        | MSZ-AP42VG(K)                | MSZ-AP42VG(K)                | MSZ-AP50VG(K)                     | MSZ-AP50VG(K)                 | MSZ-AP60VG(K)                   | MSZ-AP71VG(K)                 |
| Outdoor         | Unit                                  |                                 |        | MUZ-AP42VG                   | MUZ-AP42VGH                  | MUZ-AP50VG                        | MUZ-AP50VGH                   | MUZ-AP60VG                      | MUZ-AP71VG                    |
| Refrigera       | nt                                    |                                 |        |                              | Single: R32(11) / Mu         | lti: R410A or R32 <sup>(*1)</sup> |                               | Single                          | : R32 <sup>(*1)</sup>         |
| Power           | Source                                |                                 |        |                              |                              |                                   | ower supply                   |                                 |                               |
| Supply          | Outdoor (V / Ph                       | ase / Hz )                      |        |                              |                              | 230 / Si                          | ngle / 50                     |                                 |                               |
|                 | Design load                           |                                 | kW     | 4.2                          | 4.2                          | 5.0                               | 5.0                           | 6.1                             | 7.1                           |
|                 | Annual electricity                    | consumption (*2)                | kWh/a  | 188                          | 188                          | 236                               | 236                           | 288                             | 345                           |
|                 | SEER (*4)                             |                                 |        | 7.8                          | 7.8                          | 7.4                               | 7.4                           | 7.4                             | 7.2                           |
| Cooling         |                                       | Energy efficiency class         |        | A++                          | A++                          | A++                               | A++                           | A++                             | A++                           |
|                 |                                       | Rated                           | kW     | 4.2                          | 4.2                          | 5.0                               | 5.0                           | 6.1                             | 7.1                           |
|                 | Capacity                              | Min-Max                         | kW     | 0.9-4.5                      | 0.9-4.5                      | 1.4-5.4                           | 1.4-5.4                       | 1.4-7.3                         | 2.0-8.7                       |
|                 | Total Input                           | Rated                           | kW     | 1.300                        | 1.300                        | 1.550                             | 1.550                         | 1.590                           | 2.010                         |
|                 | Design load                           |                                 | kW     | 3.8 (-10°C)                  | 3.8 (-10°C)                  | 4.2 (-10°C)                       | 4.2 (-10°C)                   | 4.6 (-10°C)                     | 6.7 (-10°C)                   |
|                 | _                                     | at reference design temperature | kW     | 3.8 (-10°C)                  | 3.8 (-10°C)                  | 4.2 (-10°C)                       | 4.2 (-10°C)                   | 4.6 (-10°C)                     | 6.7 (-10°C)                   |
|                 | Declared                              | at bivalent temperature         | kW     | 3.8 (-10°C)                  | 3.8 (-10°C)                  | 4.2 (-10°C)                       | 4.2 (-10°C)                   | 4.6 (-10°C)                     | 6.7 (-10°C)                   |
|                 | Capacity                              | at operation limit temperature  | kW     | 4.2 (-15°C)                  | 3.8 (-20°C)                  | 4.7 (-15°C)                       | 4.2 (-20°C)                   | 3.7 (-15°C)                     | 5.4 (-15°C)                   |
| Heating         | Back up heating                       |                                 | kW     | 0.0 (-10°C)                  | 0.0 (-10°C)                  | 0.0 (-10°C)                       | 0.0 (-10°C)                   | 0.0 (-10°C)                     | 0.0 (-10°C)                   |
| Average         | Annual electricity                    |                                 | kWh/a  | 1120                         | 1134                         | 1250                              | 1275                          | 1398                            | 2132                          |
| Season)(*5)     | SCOP (*4)                             |                                 |        | 4.7                          | 4.6                          | 4.7                               | 4.6                           | 4.6                             | 4.4                           |
|                 |                                       | Energy efficiency class         |        | A++                          | A++                          | A++                               | A++                           | A++                             | A+                            |
|                 |                                       | Rated                           | kW     | 5.4                          | 5.4                          | 5.8                               | 5.8                           | 6.8                             | 8.1                           |
|                 | Capacity                              | Min-Max                         | kW     | 1.3-6.0                      | 1.3-6.0                      | 1.4-7.3                           | 1.4-7.3                       | 2.0-8.6                         | 2.2-10.3                      |
|                 | Total Input                           | Rated                           | kW     | 1.490                        | 1.490                        | 1.600                             | 1.600                         | 1.670                           | 2.120                         |
| Operatin        | g Current (Max)                       |                                 | Α      | 9.9                          | 9.9                          | 13.6                              | 13.6                          | 14.1                            | 16.4                          |
|                 | Input                                 | Rated                           | kW     | 0.032                        | 0.032                        | 0.032                             | 0.032                         | 0.049                           | 0.045                         |
|                 | Operating Current (Max)               |                                 | Α      | 0.3                          | 0.3                          | 0.3                               | 0.3                           | 0.5                             | 0.4                           |
|                 | Dimensions                            | H*W*D                           | mm     | 299-798-219                  | 299-798-219                  | 299-798-219                       | 299-798-219                   | 325-1100-257                    | 325-1100-257                  |
|                 | Weight                                |                                 | kg     | 10.5                         | 10.5                         | 10.5                              | 10.5                          | 16.0                            | 17.0                          |
| Indoor<br>Unit  | Air Volume (SLo-Lo-                   | Cooling                         | m³/min | 5.4 - 6.5 - 7.7 - 9.3 - 11.4 | 5.4 - 6.5 - 7.7 - 9.3 - 11.4 | 6.0 - 7.2 - 8.4 - 10.0 - 12.6     | 6.0 - 7.2 - 8.4 - 10.0 - 12.6 | 9.4 - 11.0 - 13.2 - 16.0 - 18.9 | 9.6 - 11.5 - 13.2 - 15.3 - 18 |
| Offic           | Mid-Hi-SHi <sup>1-3)</sup> (Dry/Wet)) | Heating                         | m³/min | 5.3 - 6.1 - 7.7 - 9.4 - 14.0 | 5.3 - 6.1 - 7.7 - 9.4 - 14.0 | 5.6 - 6.5 - 8.2 - 10.0 - 14.0     | 5.6 - 6.5 - 8.2 - 10.0 - 14.0 | 10.8- 13.4 - 15.4 - 17.4 - 20.3 | 10.2-11.5 - 13.2 - 15.3 - 19  |
|                 | Sound Level (SPL)                     | Cooling                         | dB(A)  | 21 - 29 - 34 - 38 - 42       | 21 - 29 - 34 - 38 - 42       | 28 - 33 - 36 - 40 - 44            | 28 - 33 - 36 - 40 - 44        | 29 - 37 - 41 - 45 - 48          | 30 - 37 - 41 - 45 - 49        |
|                 | (SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )  | Heating                         | dB(A)  | 21 - 29 - 35 - 40 - 45       | 21 - 29 - 35 - 40 - 45       | 28 - 33 - 38 - 43 - 48            | 28 - 33 - 38 - 43 - 48        | 30 - 37 - 41 - 45 - 48          | 30 - 37 - 41 - 45 - 51        |
|                 | Sound Level (PWL)                     | Cooling                         | dB(A)  | 57                           | 57                           | 58                                | 58                            | 65                              | 65                            |
|                 | Dimensions                            | H*W*D                           | mm     | 550-800-285                  | 550-800-285                  | 714-800-285                       | 714-800-285                   | 714-800-285                     | 880-840-330                   |
|                 | Weight                                |                                 | kg     | 35                           | 35                           | 40                                | 40                            | 40                              | 55                            |
|                 | Air Volume                            | Cooling                         | m³/min | 30.4                         | 30.4                         | 40.5                              | 40.5                          | 52.1                            | 54.1                          |
| 0               | All Volume                            | Heating                         | m³/min | 32.7                         | 32.7                         | 40.5                              | 40.5                          | 52.1                            | 47.9                          |
| Outdoor<br>Unit | Sound Level (SPL)                     | Cooling                         | dB(A)  | 50                           | 50                           | 52                                | 52                            | 56                              | 56                            |
| J.111           | Souriu Lever (SPL)                    | Heating                         | dB(A)  | 51                           | 51                           | 52                                | 52                            | 57                              | 55                            |
|                 | Sound Level (PWL)                     | Cooling                         | dB(A)  | 61                           | 61                           | 64                                | 64                            | 69                              | 69                            |
|                 | Operating Curre                       | ent (Max)                       | А      | 9.6                          | 9.6                          | 13.3                              | 13.3                          | 13.6                            | 16.0                          |
|                 | Breaker Size                          |                                 | А      | 10                           | 10                           | 16                                | 16                            | 16                              | 20                            |
|                 | Diameter                              | Liquid/Gas                      | mm     | 6.35 / 9.52                  | 6.35 / 9.52                  | 6.35 / 9.52                       | 6.35 / 9.52                   | 6.35 / 12.7                     | 6.35 / 12.7                   |
| Ext.<br>Piping  | Max.Length                            | Out-In                          | m      | 20                           | 20                           | 20                                | 20                            | 30                              | 30                            |
| pmg             | Max.Height                            | Out-In                          | m      | 12                           | 12                           | 12                                | 12                            | 15                              | 15                            |
|                 | eed Operating                         | Cooling                         | °C     | -10 ~ +46                    | -10 ~ +46                    | -10 ~ +46                         | -10 ~ +46                     | -10 ~ +46                       | -10 ~ +46                     |
| Range (C        | Outdoor)                              | Heating                         | °C     | -15 ~ +24                    | -20 ~ +24                    | -15 ~ +24                         | -20 ~ +24                     | -15 ~ +24                       | -15 ~ +24                     |

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 6x82 is 675 in the IPCC 4th Assessment Report.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) SHs. Super High

(\*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(\*5) Please see page 51-52 for heating (warmer season) specifications.

24











Developed to complement modern interior room décor, Kirigamine ZEN air conditioners are available in three colours specially chosen to blend in naturally wherever installed.

#### Stylish Line-up Matches Any Room Décor

**Energy-efficient Operation** 

The streamlined wall-mounted indoor units have eloquent silver-bevelled edges, expressing sophistication and quality. Combining impressively low power consumption and quiet yet powerful performance, these units provide a bestmatch scenario for diverse interior designs while simultaneously ensuring maximum room and energy savings.







All models in the series have achieved high energy-savings rating, and are contributing to reduced energy consumption in homes, offices and a range of other settings. Offered in a variety of output capacities and installation patterns, the vast applicability promises an ideal match for any user.

| Outdoor    | Rank A for single connection |        |        | Compa  | atibility   |        |        |
|------------|------------------------------|--------|--------|--------|-------------|--------|--------|
|            | MUZ-EF25/35VG(H)             |        |        | M      | XZ          |        |        |
| Indoor     | MUZ-EF42/50VG                | 2F33VF | 2F42VF | 2F53VF | 3F54VF      | 3F68VF | 4F72VF |
| MSZ-EF18VG | _                            | ~      | ~      | ~      | >           | ~      | ~      |
| MSZ-EF22VG | _                            | ~      | ~      | ~      | >           | ~      | ~      |
| MSZ-EF25VG | A +++/ A++(A++*)             | ~      | ~      | ~      | >           | ~      | ~      |
| MSZ-EF35VG | A +++/ A++(A+*)              |        | ~      | ~      | >           | ~      | ~      |
| MSZ-EF42VG | A++/A++                      |        |        | ~      | <b>&gt;</b> | ~      | ~      |
| MSZ-EF50VG | A++/A+                       |        |        | ~      | <b>&gt;</b> | ~      | ~      |

#### **Quiet Comfort All Day Long**

Mitsubishi Electric's advanced "Silent Mode" fan speed setting provides super-quiet operation as low as 19dB for EF18/22/25 models for cooling. This unique feature makes the Kirigamine ZEN series ideal for use in any situation

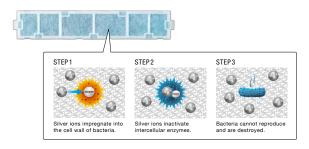
#### **Superior Exterior** and Operating Design Concept

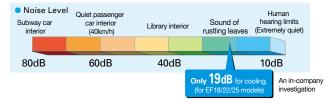
The indoor unit of the Kirigamine ZEN keeps its amazingly thin form even during operation. The only physical change notable is the movement of the variable vent. As a result, a slim attractive look is maintained.



#### Silver-ionized Air Purifier Filter

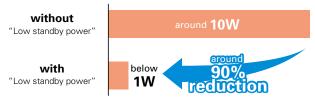
The high performance filter is attached as standard. Captures the bacteria, pollen and other allergens in the air and neutralises them.





#### Low Standby Power

Electrical devices consume standby power even when they are not in actual use. While we obviously strive to reduce power consumption during actual use, reducing this wasted power that cannot be seen is also very important.



#### **Outdoor Units for Cold Region**

(25/35)

Single split-type outdoor units are available in both standard and heater-equipped units. An electric heater is installed in each unit to prevent freezing in cold outdoor environments.



#### MSZ-E SERIES













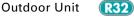








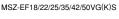






MUZ-EF25/35VG(H).42VG







MSZ-EF18/22/25/35/42/50VG(K)B\*

- \* Soft-dry Cloth is enclosed with Black models.







































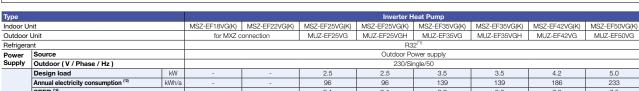












| Committee   |   |                                 |        |                              |                              |                              | 000000110                    |                              |                              |                              |                               |
|-------------|---|---------------------------------|--------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|
| Supply      | Design load Annual electricity consumption (*2) SEER (*4) |                                 |        |                              |                              |                              |                              | ngle/50                      |                              |                              |                               |
|             |   |                                 | kW     | -                            | -                            | 2.5                          | 2.5                          | 3.5                          | 3.5                          | 4.2                          | 5.0                           |
|             |   | consumption (*2)                | kWh/a  | -                            | -                            | 96                           | 96                           | 139                          | 139                          | 186                          | 233                           |
|             | SEER (*4)   |                                 |        | -                            | -                            | 9.1                          | 9.1                          | 8.8                          | 8.8                          | 7.9                          | 7.5                           |
| Cooling     |   | Energy efficiency class         |        | -                            | -                            | A+++                         | A+++                         | A+++                         | A+++                         | A++                          | A++                           |
|             | Capacity  | Rated                           | kW     | -                            | -                            | 2.5                          | 2.5                          | 3.5                          | 3.5                          | 4.2                          | 5.0                           |
|             | Capacity  | Min-Max                         | kW     |                              | -                            | 0.9-3.4                      | 0.9-3.4                      | 1.1-4.0                      | 1.1-4.0                      | 0.9-4.6                      | 1.4-5.4                       |
|             | Total Input   | Rated                           | kW     | =                            | -                            | 0.540                        | 0.540                        | 0.910                        | 0.910                        | 1.200                        | 1.540                         |
|             | Design load   |                                 | kW     | -                            | -                            | 2.4 (-10°C)                  | 2.4 (-10°C)                  | 2.9 (-10°C)                  | 2.9 (-10°C)                  | 3.8 (-10°C)                  | 4.2 (-10°C)                   |
|             |   | at reference design temperature | kW     | -                            | -                            | 2.4 (-10°C)                  | 2.4 (-10°C)                  | 2.9 (-10°C)                  | 2.9 (-10°C)                  | 3.8 (-10°C)                  | 4.2 (-10°C)                   |
|             | Declared<br>Capacity                                      | at bivalent temperature         | kW     | -                            | -                            | 2.4 (-10°C)                  | 2.4 (-10°C)                  | 2.9 (-10°C)                  | 2.9 (-10°C)                  | 3.8 (-10°C)                  | 4.2 (-10°C)                   |
|             | Capacity  | at operation limit temperature  | kW     | -                            | -                            | 2.0 (-15°C)                  | 1.6 (-20°C)                  | 2.4 (-15°C)                  | 1.7 (-20°C)                  | 3.4 (-15°C)                  | 3.5 (-15°C)                   |
| Heating     | Back up heating   | capacity                        | kW     | -                            | -                            | 0.0 (-10°C)                   |
| (Average    | Annual electricity  | consumption (*2)                | kWh/a  | -                            | -                            | 713                          | 727                          | 882                          | 900                          | 1151                         | 1304                          |
| Season)(*5) | SCOP (*4)   |                                 |        | -                            | -                            | 4.7                          | 4.6                          | 4.6                          | 4.5                          | 4.6                          | 4.5                           |
|             |   | Energy efficiency class         |        | -                            | -                            | A++                          | A++                          | A++                          | A+                           | A++                          | A+                            |
|             |   | Rated                           | kW     | -                            | -                            | 3.2                          | 3.2                          | 4.0                          | 4.0                          | 5.4                          | 5.8                           |
|             | Capacity  | Min-Max                         | kW     | -                            | -                            | 1.0-4.2                      | 1.0-4.2                      | 1.3-5.1                      | 1.3-5.1                      | 1.3-6.3                      | 1.4-7.5                       |
|             | Total Input   | Rated                           | kW     | -                            | -                            | 0.700                        | 0.700                        | 0.950                        | 0.950                        | 1.455                        | 1.560                         |
| Operating   | Current (Max)   |                                 | А      | _                            | _                            | 7.1                          | 7.1                          | 7.1                          | 7.1                          | 10.0                         | 14                            |
|             | Input   | Rated                           | kW     | 0.026                        | 0.026                        | 0.026                        | 0.026                        | 0.030                        | 0.030                        | 0.033                        | 0.043                         |
|             | Operating Current (Max)                                   |                                 | А      | 0.3                          | 0.3                          | 0.3                          | 0.3                          | 0.3                          | 0.3                          | 0.4                          | 0.4                           |
|             | Dimensions H*W*D  |                                 | mm     | 299-885-195                  | 299-885-195                  | 299-885-195                  | 299-885-195                  | 299-885-195                  | 299-885-195                  | 299-885-195                  | 299-885-195                   |
|             | Weight  |                                 | kg     | 11.5                         | 11.5                         | 11.5                         | 11.5                         | 11.5                         | 11.5                         | 11.5                         | 11.5                          |
| Indoor      | Air Volume (SLo-Lo-                                       | Cooling                         | m³/min | 4.0 - 4.6 - 6.3 - 8.3 - 10.5 | 4.0 - 4.6 - 6.3 - 8.3 - 10.5 | 4.0 - 4.6 - 6.3 - 8.3 - 10.5 | 4.0 - 4.6 - 6.3 - 8.3 - 10.5 | 4.0 - 4.6 - 6.3 - 8.3 - 10.5 | 4.0 - 4.6 - 6.3 - 8.3 - 10.5 | 5.8 - 6.6 - 7.7 - 8.9 - 11.2 | 58-68-79-92-113               |
| Unit        | Mid-Hi-SHi <sup>(*3)</sup> (Dry/Wet))                     | Heating                         | m³/min | 4.0 - 4.6 - 6.2 - 8.9 - 11.9 |                              |                              | 4.0 - 4.6 - 6.2 - 8.9 - 11.9 | 4.0 - 4.6 - 6.2 - 8.9 - 12.7 |                              |                              | 6.4 - 7.2 - 9.0 - 11.1 - 14.6 |
|             | Sound Level (SPL)   | Cooling                         | dB(A)  | 19 - 23 - 29 - 36 - 42       |                              |                              | 19 - 23 - 29 - 36 - 42       |                              |                              |                              |                               |
|             | (SLo-Lo-Mid-Hi-SHi(*3))                                   | Heating                         | dB(A)  |                              |                              |                              | 21 - 24 - 29 - 37 - 45       |                              | 21 - 24 - 30 - 38 - 46       |                              |                               |
|             | Sound Level (PWL)   | Cooling                         | dB(A)  | 60                           | 60                           | 60                           | 60                           | 60                           | 60                           | 60                           | 60                            |
|             | Dimensions  | H*W*D                           | mm     | -                            | -                            | 550-800-285                  | 550-800-285                  | 550-800-285                  | 550-800-285                  | 550-800-285                  | 714-800-285                   |
|             | Weight  |                                 | kg     | _                            | _                            | 31                           | 31                           | 34                           | 34                           | 35                           | 40                            |
|             | •   | Cooling                         | m³/min | -                            | -                            | 27.8                         | 27.8                         | 34.3                         | 34.3                         | 32.0                         | 40.2                          |
|             | Air Volume  | Heating                         | m³/min | -                            | -                            | 29.8                         | 29.8                         | 32.7                         | 32.7                         | 32.7                         | 40.2                          |
| Outdoor     |   | Cooling                         | dB(A)  | -                            | -                            | 47                           | 47                           | 49                           | 49                           | 50                           | 52                            |
| Unit        | Sound Level (SPL)   | Heating                         | dB(A)  | _                            |                              | 48                           | 48                           | 50                           | 50                           | 51                           | 52                            |
|             | Sound Level (PWL)   |                                 | dB(A)  | _                            |                              | 58                           | 58                           | 62                           | 62                           | 62                           | 65                            |
|             | Operating Curre   |                                 | A      | _                            |                              | 6.8                          | 6.8                          | 6.8                          | 6.8                          | 9.6                          | 13.6                          |
|             | Breaker Size  | in (max)                        | A      | _                            | _                            | 10                           | 10                           | 10                           | 10                           | 12                           | 16                            |
|             | Diameter  | Liquid/Gas                      | mm     |                              |                              | 6.35 / 9.52                  | 6.35 / 9.52                  | 6.35 / 9.52                  | 6.35 / 9.52                  | 6.35 / 9.52                  | 6.35 / 9.52                   |
| Ext.        | Max.Length  | Out-In                          | m      | -                            | -                            | 20                           | 20                           | 20                           | 20                           | 20                           | 30                            |
|             | Max.Height  | Out-In                          | m      | -                            | -                            | 12                           | 12                           | 12                           | 12                           | 12                           | 15                            |
|             | ed Operating  | Cooling                         | °C     | -                            | -                            | -10 ~ +46                    | -10 ~ +46                    | -10 ~ +46                    | -10 ~ +46                    | -10 ~ +46                    | -10 ~ +46                     |
| Range (O    |   | Heating                         | °C     | -                            | -                            | -10 ~ +40<br>-15 ~ +24       | -10 ~ +46                    | -10 ~ +40<br>-15 ~ +24       | -10 ~ +46<br>-20 ~ +24       | -10 ~ +40<br>-15 ~ +24       | -15 ~ +24                     |
|             |   | Heating                         |        | -                            |                              |                              | -20 ~ +24                    | -15 ~ +24                    |                              | -10 ~ +24                    | -10 ~ +24                     |

<sup>°</sup>C (\*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 638seshible the product yourself or product yourself and always ask a professional. The GWP of 182 is 675 in the IPCC 4th Assessment Report.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) SH: Super High

(\*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

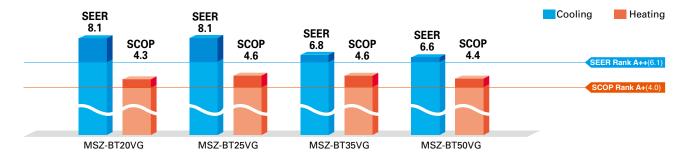
(\*5) Please see page 51-52 for heating (warmer season) specifications.



#### High Energy Efficiency for Entire Range of Series



All models in the series, from the low-capacity 20 to the high-capacity 50, have achieved the "Rank A++" for SEER and size 25 and 35 have achieved the "Rank A++" for SCOP as energy-savings rating. For home use, such as in bedrooms and living rooms, to light commercial use, such as in offices, our air conditioners are contributing to reduced energy consumption in a wide range.



#### **Quiet Operation**

The indoor unit noise level is as low as 19dB for AP Series, offering a peaceful inside environment.



#### **New Remote Controller**

New stylish and compact remote controller features easy-read big display and simple button position with fundamental functions.



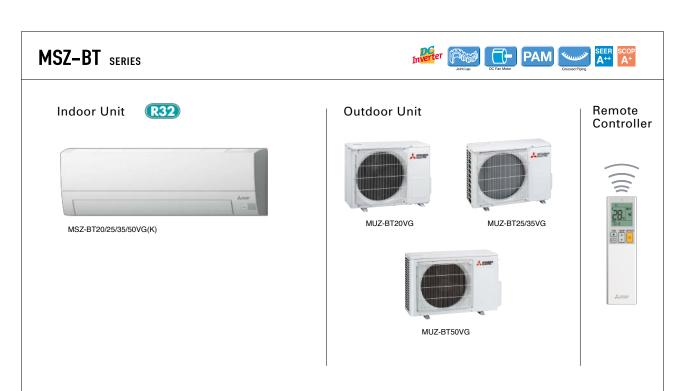
#### Built-in Wi-Fi Interface

(MSZ-BT20/25/35/50VGK)



The indoor unit is equipped with a Wi-Fi Interface inside an exclusive pocket in the unit

This eliminates the need to install a Wi-Fi interface, and also contributes to the beautiful appearance since the interface is hidden.



AUTO Silver-ion SMNG SAUTO Auto Restart Cooling

| Туре            |                                   |                                 |        |                              | Inverter F                   | leat Pump                    |                               |
|-----------------|-----------------------------------|---------------------------------|--------|------------------------------|------------------------------|------------------------------|-------------------------------|
| Indoor Ur       | nit                               |                                 |        | MSZ-BT20VG(K)                | MSZ-BT25VG(K)                | MSZ-BT35VG(K)                | MSZ-BT50VG(K)                 |
| Outdoor I       | Jnit                              |                                 |        | MUZ-BT20VG                   | MUZ-BT25VG                   | MUZ-BT35VG                   | MUZ-BT50VG                    |
| Refrigera       | nt                                |                                 |        |                              | R3                           | (2 <sup>(*1)</sup>           |                               |
| Power           | Source                            |                                 |        |                              | Outdoor Po                   | ower supply                  |                               |
| Supply          | Outdoor (V/Ph                     | ase / Hz )                      |        |                              | 230V/Sir                     | ngle/50Hz                    |                               |
|                 | Design load                       |                                 | kW     | 2.0                          | 2.5                          | 3.5                          | 5.0                           |
|                 | Annual electricity                | consumption (*2)                | kWh/a  | 86                           | 108                          | 180                          | 265                           |
|                 | SEER (*4)                         |                                 |        | 8.1                          | 8.1                          | 6.8                          | 6.6                           |
| Cooling         |                                   | Energy efficiency class         | ,      | A++                          | A++                          | A++                          | A++                           |
|                 | Capacity                          | Rated                           | kW     | 2.0                          | 2.5                          | 3.5                          | 5.0                           |
|                 | Capacity                          | Min-Max                         | kW     | 0.5-2.9                      | 0.5-3.0                      | 0.9-3.5                      | 1.3-5.0                       |
|                 | Total Input                       | Rated                           | kW     | 0.450                        | 0.700                        | 1.240                        | 2.050                         |
|                 | Design load                       |                                 | kW     | 1.5 (-10°C)                  | 1.9 (-10°C)                  | 2.4 (-10°C)                  | 3.8 (-10°C)                   |
|                 | D11                               | at reference design temperature |        | 1.5 (-10°C)                  | 1.9 (-10°C)                  | 2.4 (-10°C)                  | 3.8 (-10°C)                   |
|                 | Declared<br>Capacity              | at bivalent temperature         | kW     | 1.5 (-10°C)                  | 1.9 (-10°C)                  | 2.4 (-10°C)                  | 3.8 (-10°C)                   |
|                 |                                   | at operation limit temperature  | kW     | 1.3 (-15°C)                  | 1.7 (-15°C)                  | 2.1 (-15°C)                  | 3.4 (-15°C)                   |
| Heating         | Back up heating                   | capacity                        | kW     | 0.0 (-10°C)                  | 0.0 (-10°C)                  | 0.0 (-10°C)                  | 0.0 (-10°C)                   |
| (Average        | Annual electricity                | consumption (*2)                | kWh/a  | 487                          | 577                          | 727                          | 1209                          |
| Season)(*5)     | SCOP (*4)                         |                                 |        | 4.3                          | 4.6                          | 4.6                          | 4.4                           |
|                 |                                   | Energy efficiency class         |        | A <sup>+</sup>               | A <sup>++</sup>              | A <sup>++</sup>              | A <sup>+</sup>                |
|                 | Capacity                          | Rated                           | kW     | 2.5                          | 3.15                         | 3.6                          | 5.4                           |
|                 | Capacity                          | Min-Max                         | kW     | 0.7-3.2                      | 0.7-3.5                      | 0.9-4.1                      | 1.4-6.5                       |
|                 | Total Input                       | Rated                           | kW     | 0.550                        | 0.750                        | 0.930                        | 1.550                         |
| Operatin        | g Current (Max)                   |                                 | Α      | 5.6                          | 7.0                          | 7.0                          | 10.0                          |
|                 | Input                             | Rated                           | kW     | 0.024                        | 0.024                        | 0.031                        | 0.037                         |
|                 | Operating Curre                   | ent(Max)                        | A      | 0.25                         | 0.25                         | 0.31                         | 0.35                          |
|                 | Dimensions                        | H*W*D                           | mm     | 280-838-235                  | 280-838-235                  | 280-838-235                  | 280-838-235                   |
|                 | Weight                            |                                 | kg     | 9                            | 9                            | 9                            | 9                             |
| Indoor<br>Unit  | Air Volume (Lo-Mid-               | Cooling                         | m³/min | 4.2 - 5.2 - 6.8 - 8.7 - 10.9 | 4.2 - 5.2 - 6.8 - 8.7 - 10.9 | 4.2 - 5.2 - 6.8 - 8.7 - 13.2 | 6.3 - 7.6 - 9.0 - 11.0 - 13.2 |
| Oiiii           | Hi-SHi <sup>(*3)</sup> (Dry/Wet)) | Heating                         | m³/min | 4.2 - 5.0 - 6.8 - 9.0 - 11.9 | 4.2 - 5.0 - 6.8 - 9.0 - 11.9 | 4.2 - 5.0 - 6.8 - 9.0 - 11.9 | 6.0 - 7.8 - 9.9 - 11.9 - 14.1 |
|                 | Sound Level (SPL)                 | Cooling                         | dB(A)  | 19 - 22 - 30 - 37 - 43       | 19 - 22 - 30 - 37 - 43       | 19 - 22 - 31 - 38 - 46       | 29 - 33 - 36 - 40 - 46        |
|                 | (Lo-Mid-Hi-SHi <sup>(*3)</sup> )  | Heating                         | dB(A)  | 20 - 23 - 30 - 37 - 43       | 20 - 23 - 30 - 37 - 43       | 20 - 23 - 30 - 37 - 44       | 29 - 33 - 38 - 43 - 48        |
|                 | Sound Level (PWL)                 | Cooling                         | dB(A)  | 57                           | 57                           | 60                           | 60                            |
|                 | Dimensions                        | H*W*D                           | mm     | 538-699-249                  | 538-699-249                  | 538-699-249                  | 550-800-285                   |
|                 | Weight                            |                                 | kg     | 23                           | 24                           | 24                           | 35                            |
|                 | Air Volume                        | Cooling                         | m³/min | 30.3                         | 32.2                         | 32.2                         | 30.4                          |
|                 | All Volume                        | Heating                         | m³/min | 30.3                         | 32.2                         | 34.6                         | 32.7                          |
| Outdoor<br>Unit | Sound Level (SPL)                 | Cooling                         | dB(A)  | 50                           | 50                           | 52                           | 50                            |
| •               | ` '                               | Heating                         | dB(A)  | 50                           | 50                           | 52                           | 51                            |
|                 | Sound Level (PWL)                 | Cooling                         | dB(A)  | 63                           | 63                           | 64                           | 64                            |
|                 | Operating Curre                   | nt (Max)                        | A      | 5.3                          | 6.7                          | 6.7                          | 9.6                           |
|                 | Breaker Size                      |                                 | A      | 10                           | 10                           | 10                           | 12                            |
| Evt             | Diameter                          | Liquid/Gas                      | mm     | 6.35 / 9.52                  | 6.35 / 9.52                  | 6.35 / 9.52                  | 6.35 / 12.7                   |
| Ext.<br>Piping  | Max.Length                        | Out-In                          | m      | 20                           | 20                           | 20                           | 20                            |
| . iping         | Max.Height                        | Out-In                          | m      | 12                           | 12                           | 12                           | 12                            |
| Guarante        | ed Operating                      | Cooling                         | °C     | -10 ~ +46                    | -10 ~ +46                    | -10 ~ +46                    | -10 ~ +46                     |
| Range (C        | outdoor)                          | Heating                         | °C     | -15 ~ +24                    | -15 ~ +24                    | -15 ~ +24                    | -15 ~ +24                     |
|                 |                                   |                                 |        |                              |                              |                              |                               |

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 638seshible the product yourself or product yourself and always ask a professional. The GWP of 182 is 675 in the IPCC 4th Assessment Report.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) SH: Super High

(\*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(\*5) Please see page 51-52 for heating (warmer season) specifications.



Compact, high-performance indoor and outdoor units with R32 that is low global warming potential compared with the current refrigerant R410A contribute to room comfort and to prevent global warming.



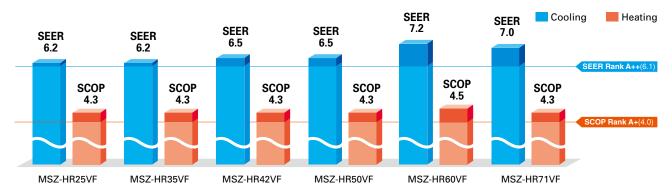
#### "Rank A++/A+" Energy Savings Achieved for Entire Range of Series







All models in the series, from capacity 25 to 71, have achieved the "Rank A\*\*" for SEER and "Rank A\*" for SCOP as energy-savings rating, thanks to Mitsubishi Electric's inverter technologies which are adopted to provide automatic adjustment of operation load according to need.



#### Simple and Friendly Design

The round front surface provides a simple and friendly impression. And the width of indoor unit is compact, making installation in smaller, tighter spaces possible.



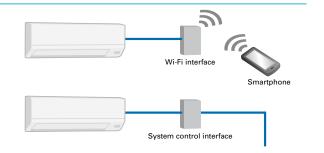
#### Wi-Fi and System Control

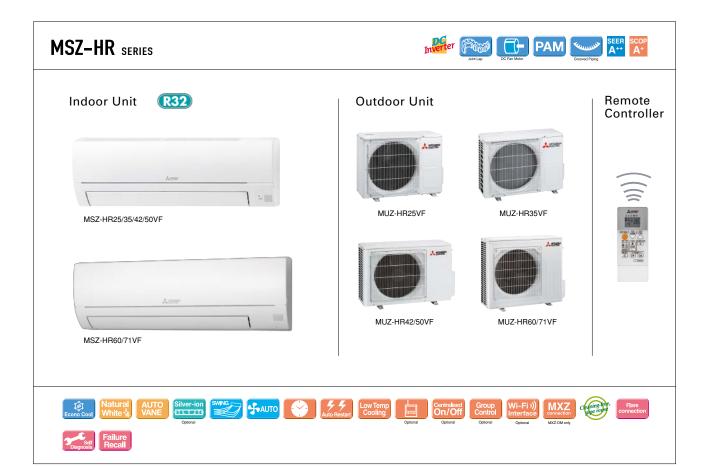
#### Wi-Fi Interface (Optional)

Optional interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.

#### **System Control Interface (Optional)**

- •Remote on/off operation is possible by input to the connector.
- Depending on the interface used, connecting a wired remotecontrol such as the PAR-40MAA is possible.
- •Centralised control is possible when connected to M-NET.
- \*Wi-Fi Interface and System Control Interface cannot be used simultaneously.





| Туре   |                                  |                                 |        |                        |                        | Inverter F              | leat Pump               |                           |                           |
|--|----------------------------------|---------------------------------|--------|------------------------|------------------------|-------------------------|-------------------------|---------------------------|---------------------------|
| Indoor U   | nit                              |                                 |        | MSZ-HR25VF             | MSZ-HR35VF             | MSZ-HR42VF              | MSZ-HR50VF              | MSZ-HR60VF                | MSZ-HR71VF                |
| Outdoor  | Unit                             |                                 |        | MUZ-HR25VF             | MUZ-HR35VF             | MUZ-HR42VF              | MUZ-HR50VF              | MUZ-HR60VF                | MUZ-HR71VF                |
| Refrigera  | nt                               |                                 |        |                        |                        | R3                      | 2(*1)                   |                           |                           |
| Power Suprly         Source         Outdoor Power supply           Supply         Outdoor (V / Phase / Hz )         230V/Single/50Hz |                                  |                                 |        |                        |                        |                         |                         |                           |                           |
| Supply   | Outdoor (V / Ph                  | ase / Hz )                      |        |                        |                        | 230V/Sir                | igle/50Hz               |                           |                           |
|  | Design load                      |                                 | kW     | 2.5                    | 3.4                    | 4.2                     | 5.0                     | 6.1                       | 7.1                       |
|  | Annual electricity               | consumption (*2)                | kWh/a  | 141                    | 191                    | 226                     | 269                     | 296                       | 355                       |
|  | SEER (*4)                        |                                 |        | 6.2                    | 6.2                    | 6.5                     | 6.5                     | 7.2                       | 7.0                       |
| Cooling  |                                  | Energy efficiency class         | 3      | A++                    | A++                    | A++                     | A++                     | A++                       | A++                       |
| _  |                                  | Rated                           | kW     | 2.5                    | 3.4                    | 4.2                     | 5.0                     | 6.1                       | 7.1                       |
|  | Capacity                         | Min-Max                         | kW     | 0.5-2.9                | 0.9-3.4                | 1.1-4.6                 | 1.3-5.0                 | 1.7-7.1                   | 1.8-7.3                   |
|  | Total Input                      | Rated                           | kW     | 0.800                  | 1.210                  | 1.340                   | 2.050                   | 1.810                     | 2.330                     |
|  | Design load                      |                                 | kW     | 1.9 (-10°C)            | 2.4 (-10°C)            | 2.9 (-10°C)             | 3.8 (-10°C)             | 4.6 (-10°C)               | 5.4 (-10°C)               |
|  |                                  | at reference design temperature | kW     | 1.9 (-10°C)            | 2.4 (-10°C)            | 2.9 (-10°C)             | 3.8 (-10°C)             | 4.6 (-10°C)               | 5.4 (-10°C)               |
|  | Declared<br>Capacity             | at bivalent temperature         | kW     | 1.9 (-10°C)            | 2.4 (-10°C)            | 2.9 (-10°C)             | 3.8 (-10°C)             | 4.6 (-10°C)               | 5.4 (-10°C)               |
|  | Оараспу                          | at operation limit temperature  | kW     | 1.9 (-10°C)            | 2.4 (-10°C)            | 2.9 (-10°C)             | 3.8 (-10°C)             | 4.6 (-10°C)               | 5.4 (-10°C)               |
| Heating  | Back up heating                  | capacity                        | kW     | 0.0 (-10°C)            | 0.0 (-10°C)            | 0.0 (-10°C)             | 0.0 (-10°C)             | 0.0 (-10°C)               | 0.0 (-10°C)               |
| (Average   | Annual electricity               | consumption (*2)                | kWh/a  | 614                    | 781                    | 928                     | 1224                    | 1430                      | 1755                      |
| Season)(*5)  | SCOP (*4)                        |                                 |        | 4.3                    | 4.3                    | 4.3                     | 4.3                     | 4.5                       | 4.3                       |
|  |                                  | Energy efficiency class         | 3      | A+                     | A+                     | A+                      | A+                      | A+                        | A+                        |
|  | 0                                | Rated                           | kW     | 3.15                   | 3.6                    | 4.7                     | 5.4                     | 6.8                       | 8.1                       |
|  | Capacity                         | Min-Max                         | kW     | 0.7-3.5                | 0.9-3.7                | 0.9-5.4                 | 1.4-6.5                 | 1.5-8.5                   | 1.5-9.0                   |
|  |                                  |                                 | kW     | 0.850                  | 0.975                  | 1.300                   | 1.550                   | 1.810                     | 2.440                     |
| Operatin   | g Current (Max)                  |                                 | А      | 5.0                    | 6.7                    | 8.5                     | 10.0                    | 14.1                      | 14.1                      |
|  | Input                            | Rated                           | kW     | 0.020                  | 0.028                  | 0.032                   | 0.039                   | 0.055                     | 0.055                     |
|  | Operating Curre                  | nt(Max)                         | A      | 0.2                    | 0.27                   | 0.3                     | 0.36                    | 0.5                       | 0.5                       |
|  | Dimensions                       | H*W*D                           | mm     | 280-838-228            | 280-838-228            | 280-838-228             | 280-838-228             | 305-923-262               | 305-923-262               |
|  | Weight                           |                                 | kg     | 8.5                    | 8.5                    | 9                       | 9                       | 12.5                      | 12.5                      |
| Indoor<br>Unit   | Air Volume (Lo-Mid-              | Cooling                         | m³/min | 3.6 - 5.4 - 7.2 - 9.7  | 3.6 - 5.6 - 7.8 - 11.7 | 6.0 - 8.7 - 10.8 - 13.1 | 6.4 - 9.2 - 11.2 - 13.1 | 10.4 - 12.6 - 15.4 - 19.6 | 10.4 - 12.6 - 15.4 - 19.6 |
| Onit   | Hi-SHi(*3)(Dry/Wet))             | Heating                         | m³/min | 3.3 - 5.4 - 7.4 - 10.1 | 3.3 - 5.4 - 7.4 - 10.5 | 5.6 - 7.9 - 10.8 - 13.4 | 6.1 - 8.3 - 11.2 - 14.5 | 10.7 - 13.1 - 16.7 - 19.6 | 10.7 - 13.1 - 16.7 - 19.6 |
|  | Sound Level (SPL)                | Cooling                         | dB(A)  | 21 - 30 - 37 - 43      | 22 - 31 - 38 - 46      | 24 - 34 - 39 - 45       | 28 - 36 - 40 - 45       | 33 - 38 - 44 - 50         | 33 - 38 - 44 - 50         |
|  | (Lo-Mid-Hi-SHi <sup>(*3)</sup> ) | Heating                         | dB(A)  | 21 - 30 - 37 - 43      | 21 - 30 - 37 - 44      | 24 - 32 - 40 - 46       | 27 - 34 - 41 - 47       | 33 - 38 - 44 - 50         | 33 - 38 - 44 - 50         |
|  | Sound Level (PWL)                | Cooling                         | dB(A)  | 57                     | 60                     | 60                      | 60                      | 65                        | 65                        |
|  | Dimensions                       | H*W*D                           | mm     | 538-699-249            | 538-699-249            | 550-800-285             | 550-800-285             | 714-800-285               | 714-800-285               |
|  | Weight                           |                                 | kg     | 23                     | 24                     | 34                      | 35                      | 40                        | 40                        |
|  | Air Volume                       | Cooling                         | m³/min | 30.3                   | 32.2                   | 30.4                    | 30.4                    | 42.8                      | 42.8                      |
|  | Air volume                       | Heating                         | m³/min | 30.3                   | 32.2                   | 32.7                    | 32.7                    | 48.3                      | 48.3                      |
| Outdoor<br>Unit  | Sound Level (SPL)                | Cooling                         | dB(A)  | 50                     | 51                     | 50                      | 50                      | 53                        | 53                        |
| Cint   | Sound Level (SPL)                | Heating                         | dB(A)  | 50                     | 51                     | 51                      | 51                      | 57                        | 57                        |
|  | Sound Level (PWL)                | Cooling                         | dB(A)  | 63                     | 64                     | 64                      | 64                      | 65                        | 66                        |
| }  | Operating Curre                  | ent (Max)                       | Α      | 4.8                    | 6.4                    | 8.2                     | 9.6                     | 13.6                      | 13.6                      |
|  | Breaker Size                     |                                 | Α      | 10                     | 10                     | 10                      | 12                      | 16                        | 16                        |
| F  | Diameter                         | Liquid/Gas                      | mm     | 6.35 / 9.52            | 6.35 / 9.52            | 6.35 / 9.52             | 6.35 / 9.52             | 6.35 / 12.7               | 6.35 / 12.7               |
| Ext.<br>Piping   | Max.Length                       | Out-In                          | m      | 20                     | 20                     | 20                      | 20                      | 30                        | 30                        |
| p.ii.ig  | Max.Height                       | Out-In                          | m      | 12                     | 12                     | 12                      | 12                      | 15                        | 15                        |
| Guarante   | eed Operating                    | Cooling                         | °C     | -10 ~ +46              | -10 ~ +46              | -10 ~ +46               | -10 ~ +46               | -10 ~ +46                 | -10 ~ +46                 |
| Range (C   | Outdoor)                         | Heating                         | °C     | -10 ~ +24              | -10 ~ +24              | -10 ~ +24               | -10 ~ +24               | -10 ~ +24                 | -10 ~ +24                 |

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 638seshible the product yourself or product yourself and always ask a professional. The GWP of 182 is 675 in the IPCC 4th Assessment Report.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) SH: Super High

(\*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

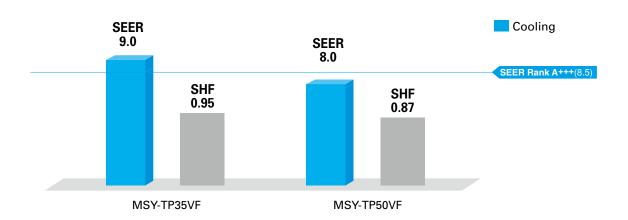
(\*5) Please see page 51-52 for heating (warmer season) specifications.





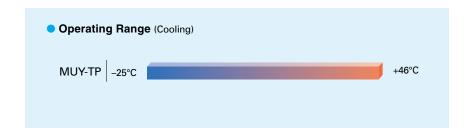
Cooling only model with high-perfomance provide high SHF in various environments thanks to wide operation range.

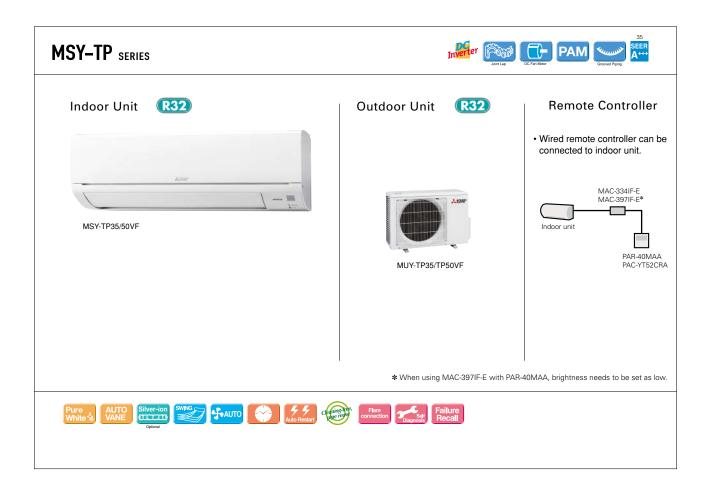
#### High Energy-Saving Performance with High SHF



#### Wide Cooling Operating Range

As a result of an extended operating range in cooling, these models accommodate a wide range of usage environments and applications.





| уре          |                                     |                                 |        | Inverte                   | er Heat Pump              |  |  |  |
|--------------|-------------------------------------|---------------------------------|--------|---------------------------|---------------------------|--|--|--|
| loor Ur      | nit                                 |                                 |        | MSY-TP35VF                | MSY-TP50VF                |  |  |  |
| Outdoor Unit |                                     |                                 |        | MUY-TP35VF                | MUY-TP50VF                |  |  |  |
| rigera       | nt                                  | ·                               |        |                           | R32 <sup>(*1)</sup>       |  |  |  |
| ower Source  |                                     |                                 |        | Indoor Power supply       |                           |  |  |  |
| ply          | Outdoor (V / Ph                     | ase / Hz )                      |        | 230V / Single / 50Hz      |                           |  |  |  |
|              | Design load                         |                                 | kW     | 3.5                       | 5.0                       |  |  |  |
|              | Annual electricity consumption (*2) |                                 | kWh/a  | 136                       | 218                       |  |  |  |
|              | SEER (*4)                           |                                 |        | 9.0                       | 8.0                       |  |  |  |
|              |                                     | Energy efficiency class         | ,      | A+++                      | A++                       |  |  |  |
|              |                                     | Rated                           | kW     | 3.5                       | 5.0                       |  |  |  |
|              | Capacity                            | Min-Max                         | kW     | 1.5 - 4.0                 | 1.5 - 5.7                 |  |  |  |
|              | Total Input                         | Rated                           | kW     | 0.760                     | 1.450                     |  |  |  |
|              | Design load                         |                                 | kW     | -                         | -                         |  |  |  |
|              |                                     | at reference design temperature |        | -                         | -                         |  |  |  |
|              | Declared                            | at bivalent temperature         | kW     | -                         | -                         |  |  |  |
|              | Capacity                            | at operation limit temperature  | kW     | -                         | -                         |  |  |  |
| ating        | Back up heating                     |                                 | kW     | -                         | -                         |  |  |  |
| erage        | Annual electricity                  |                                 | kWh/a  |                           | -                         |  |  |  |
| Season)(*5)  | SCOP (*4)                           |                                 |        | -                         | -                         |  |  |  |
|              |                                     | Energy efficiency class         |        | -                         | -                         |  |  |  |
|              |                                     | Rated                           | kW     | -                         | -                         |  |  |  |
|              | Capacity                            | Min-Max                         | kW     | _                         | _                         |  |  |  |
|              | Total Input                         | Rated                           | kW     |                           | -                         |  |  |  |
| oratin       | g Current (Max)                     | riated                          | A      | 9.6                       | 9.6                       |  |  |  |
| ciatiii      | Input                               | Rated                           | kW     | 0.033                     | 0.034                     |  |  |  |
|              | Operating Curre                     |                                 | A      | 0.4                       | 0.4                       |  |  |  |
|              | Dimensions                          | H*W*D                           | mm     | 305-923-250               | 305-923-250               |  |  |  |
|              | Weight                              | III W B                         | kg     | 12.5                      | 12.5                      |  |  |  |
| loor         | Air Volume (Lo-Mid-                 | Cooling                         | m³/min | 10.1 - 11.6 - 13.7 - 16.4 | 10.1 - 11.6 - 13.7 - 16.4 |  |  |  |
| it           | Hi-SHi <sup>(*3)</sup> (Dry/Wet))   | Heating                         | m³/min | 10.1 - 11.0 - 13.7 - 10.4 | 10.1 - 11.0 - 10.7 - 10.4 |  |  |  |
|              | Sound Level (SPL)                   | Cooling                         | dB(A)  | 31 - 36 - 40 - 45         | 31 - 36 - 40 - 45         |  |  |  |
|              | (Lo-Mid-Hi-SHi <sup>(*3)</sup> )    | Heating                         | dB(A)  | 31-30-40-45               | 31-30-40-43               |  |  |  |
|              | Sound Level (PWL)                   | Cooling                         | dB(A)  | -<br>60                   | - 60                      |  |  |  |
|              | Breaker Size                        | Cooling                         | A A    | 10                        | 10                        |  |  |  |
|              | Dimensions H*W*D                    |                                 | mm     | 550-800-285               |                           |  |  |  |
|              | Weight                              |                                 | kg     | 34                        | 550-800-285<br>34         |  |  |  |
|              | vve/giit                            | Cooling                         | m³/min | 29.3                      | 29.3                      |  |  |  |
|              | Air Volume                          | Heating                         | m³/min | 29.3                      | 29.3                      |  |  |  |
| tdoor<br>it  |                                     | Cooling                         | dB(A)  | -<br>45                   | 47                        |  |  |  |
| ••           | Sound Level (SPL)                   | Heating                         | dB(A)  | 45<br>-                   |                           |  |  |  |
|              | Sound Level (PWL)                   |                                 | dB(A)  | -<br>58                   | - 61                      |  |  |  |
|              |                                     |                                 |        |                           | -                         |  |  |  |
|              | Operating Curre                     |                                 | A      | 9.2                       | 9.2                       |  |  |  |
| t.           | Diameter Liquid/Gas                 |                                 | mm     | 6.35/9.52                 | 6.35/9.52                 |  |  |  |
| ing          | Max.Length                          | Out-In                          | m      | 20                        | 20                        |  |  |  |
|              | Max.Height                          | Out-In                          | m      | 12                        | 12                        |  |  |  |
| iarante      | ed Operating                        | Cooling                         | *C     | -25 ~ +46                 | -25 ~ +46                 |  |  |  |

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R32 is 675 in the IPCC 4th Assessment Report.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) SH: Super High

(\*4) SEER and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011.



Single / Mult

# MSZ-F SERIES

**GOOD DESIGN AWARD 2012** 

MSZ-FH25/35/50VE2

The F Series is designed for optimum cooling/heating performance as well as operational comfort. Quiet, energy-saving operation is supported by some of Mitsubishi Electric's latest technologies. Advanced functions such as "3D i-see Sensor" temperature control and the Plasma Quad air purification system raise room comfort levels to new heights.

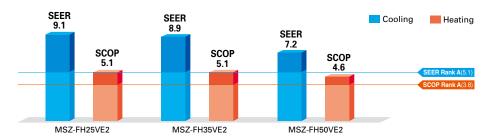


#### **High Energy Efficiency**





Power consumption has been reduced for the cooling and heating modes thanks to the incorporation of our newest inverter technologies. The high energy efficiency of the Size 25 units has obtained a rating of more than 5.0 for both seasonal coefficient of performance (SCOP) and seasonal energy efficiency rating (SEER).



#### 3D i-see Sensor

The FH Series is equipped with 3D i-see Sensor, an infrared-ray sensor that measures the temperature at distant positions. While moving to the left and right, eight vertically arranged sensor elements analyze the room temperature in three dimensions. This detailed analysis makes it possible to judge where people are in the room, thus allowing creation of features such as "Indirect airflow," to avoid airflow hitting people directly, and "direct airflow" to deliver airflow to where people are.

#### Indirect Airflow

The indirect airflow setting can be used when the flow of air feels too strong or direct. For example, it can be used during cooling to avert airflow and prevent body temperature from becoming

#### **Direct Airflow**

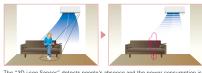
This setting can be used to directly target airflow at people such as for immediate comfort when coming indoors on a hot (cold) day.





#### **Absence Detection**

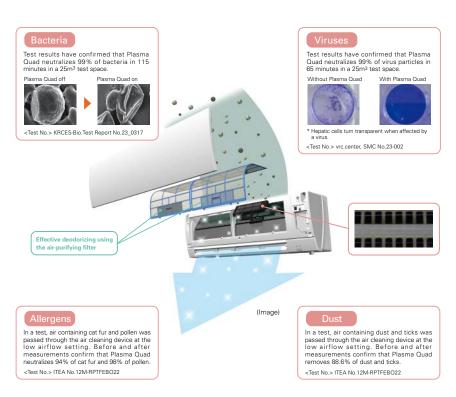
The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.

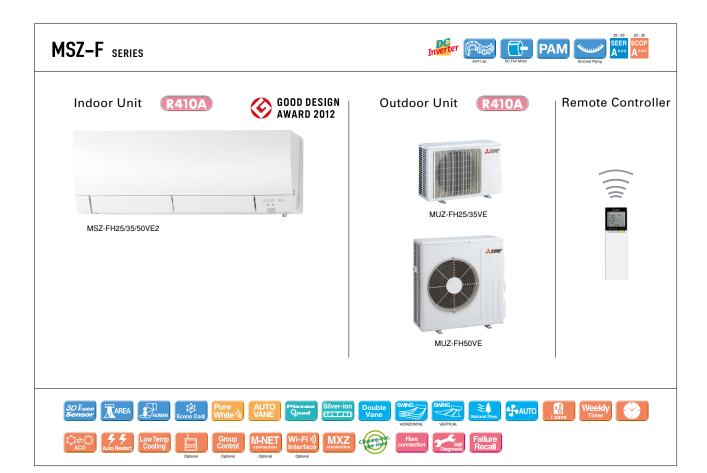


The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60

#### Plasma Quad

Air, like water, is something we use everyday unconsciously. Yet, clean, fresh air is a vital part of creating a healthy space for humans. Achieving this healthy air is Plasma Quad, a plasmabased filter system that effectively removes four kinds of air pollutants; namely, bacteria, viruses, allergens and dust, which the air contains countless particles of.





| уре                                     |                                       |                                 |               |                                   | Inverter Heat Pump    |                       |  |  |
|---|---------------------------------------|---------------------------------|---------------|-----------------------------------|-----------------------|-----------------------|--|--|
| Indoor Unit                             |                                       |                                 |               | MSZ-FH25VE2 MSZ-FH35VE2           |                       | MSZ-FH50VE2           |  |  |
| Outdoor Unit                            |                                       |                                 |               | MUZ-FH25VE                        | MUZ-FH50VE            |                       |  |  |
| efrigeran                               | t                                     |                                 |               |                                   | R410A <sup>(11)</sup> | •                     |  |  |
| Power Source                            |                                       |                                 |               | Outdoor Power supply              |                       |                       |  |  |
|   | Outdoor (V/Ph                         | ase / Hz )                      |               | 230/Single/50                     |                       |                       |  |  |
|   | Design load                           |                                 | kW            | 2.5                               | 3.5                   | 5.0                   |  |  |
| Ī.                                      | Annual electricity                    | consumption (*2)                | kWh/a         | 96                                | 138                   | 244                   |  |  |
|   | SEER (*4)                             |                                 |               | 9.1                               | 8.9                   | 7.2                   |  |  |
| oling                                   |                                       | Energy efficiency class         | A+++          |                                   | A+++                  | A++                   |  |  |
|   |                                       | Rated                           | kW            | 2.5                               | 3.5                   | 5.0                   |  |  |
| ľ                                       | Capacity                              | Min-Max                         | kW            | 1.4-3.5                           | 0.8-4.0               | 1.9-6.0               |  |  |
| [                                       | Total Input                           | Rated                           | kW            | 0.485                             | 0.820                 | 1.380                 |  |  |
|   | Design load                           |                                 | kW            | 3.0(-10°C)                        | 3.6(-10°C)            | 4.5(-10°C)            |  |  |
|   |                                       | at reference design temperature | kW            | 3.0(-10°C)                        | 3.6(-10°C)            | 4.5(-10°C)            |  |  |
|   | Declared<br>Capacity                  | at bivalent temperature         | kW            | 3.0(-10°C)                        | 3.6(-10°C)            | 4.5(-10°C)            |  |  |
|   | опрасну                               | at operation limit temperature  | kW 2.5(-15°C) |                                   | 3.2(-15°C)            | 5.2(-15°C)            |  |  |
| iting                                   | Back up heating                       | capacity                        | kW            | 0.0(-10°C)                        | 0.0(-10°C)            | 0.0(-10°C)            |  |  |
| rage                                    | Annual electricity                    | consumption (*2)                | kWh/a         | 819                               | 986                   | 1372                  |  |  |
| on)(*5)                                 | SCOP (*4)                             |                                 |               | 5.1                               | 5.1                   | 4.6                   |  |  |
|   |                                       | Energy efficiency class         |               | A+++                              | A+++                  | A++                   |  |  |
|   | 0                                     | Rated                           | kW            | 3.2                               | 4.0                   | 6.0                   |  |  |
| ľ                                       | Capacity                              | Min-Max                         | kW            | 1.8-5.5                           | 1.0-6.3               | 1.7-8.7               |  |  |
| [                                       | Total Input Rated                     |                                 | kW            | 0.580                             | 0.800                 | 1.480                 |  |  |
| Operating Current (Max)                 |                                       | Α                               | 9.6           | 9.6                               |                       |                       |  |  |
|   | Input                                 | Rated                           | kW            | 0.029                             | 0.029                 | 0.031                 |  |  |
|   | Operating Current(Max)                |                                 | A             | 0.4                               | 0.4 0.4               |                       |  |  |
|   | Dimensions                            | H*W*D                           | mm            | 305(+17)-925-234 305(+17)-925-234 |                       | 305(+17)-925-234      |  |  |
|   | Weight                                |                                 | kg            | 13.5                              | 13.5                  | 13.5                  |  |  |
| oor<br>t                                | Air Volume (SLo-Lo-                   | Cooling                         | m³/min        | 3.9-4.7-6.3-8.6-11.6              | 3.9-4.7-6.3-8.6-11.6  | 6.4-7.4-8.6-10.1-12.4 |  |  |
| ` [                                     | Mid-Hi-SHi <sup>(+3)</sup> (Dry/Wet)) | Heating                         | m³/min        | 4.0-4.7-6.4-9.2-13.2              | 4.0-4.7-6.4-9.2-13.2  | 5.7-7.2-9.0-11.2-14.6 |  |  |
|   | Sound Level (SPL)                     | Cooling                         | dB(A)         | 20-23-29-36-42                    | 21-24-29-36-42        | 27-31-35-39-44        |  |  |
|   | (SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )  | Heating                         | dB(A)         | 20-24-29-36-44                    | 21-24-29-36-44        | 25-29-34-39-46        |  |  |
|   | Sound Level (PWL)                     | vel (PWL) Cooling               |               | 58                                | 58                    | 60                    |  |  |
|   | Dimensions                            | nensions H*W*D                  |               | 550-800-285                       | 550-800-285           | 880-840-330           |  |  |
| Ľ                                       | Weight                                |                                 | kg            | 37                                | 37                    | 55                    |  |  |
| Γ                                       | Air Volume Sound Level (SPL)          | Cooling                         | m³/min        | 31.3                              | 33.6                  | 48.8                  |  |  |
| door                                    |                                       | Heating                         | m³/min        | 31.3                              | 33.6                  | 51.3                  |  |  |
|   |                                       | Cooling                         | dB(A)         | 46                                | 49                    | 51                    |  |  |
|   |                                       | Heating                         | dB(A)         | 49                                | 50                    | 54                    |  |  |
| -                                       | Sound Level (PWL)   Cooling           |                                 | dB(A)         | 60                                | 61                    | 64                    |  |  |
|   | Operating Current (Max)               |                                 | A             | 9.2 9.6                           |                       | 13.6                  |  |  |
|   | Breaker Size                          |                                 | A             | 10                                | 10                    | 16                    |  |  |
| . [                                     | Diameter Liquid/Gas                   |                                 | mm            | 6.35 / 9.52                       | 6.35 / 9.52           | 6.35 / 12.7           |  |  |
| t.<br>oing                              | Max.Length                            | Out-In                          | m             | 20                                | 20                    | 30                    |  |  |
| 9                                       | Max.Height                            |                                 |               | 12                                | 12                    | 15                    |  |  |
| Guaranteed Operating<br>Range (Outdoor) |                                       | Cooling                         | *C            | -10 ~ +46                         | -10 ~ +46             | -10 ~ +46             |  |  |
|   |                                       | Heating                         | °C            | -15 ~ +24                         | -15 ~ +24             | -15 ~ +24             |  |  |

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or Gasssemble the product yourself or product yourself and always ask a professional. The GWP of R41Oa is 2088 in the IPCO 4th Assessment Report.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SH: Super High

(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(5) Please see page 51-52 for heating (warmer season) specifications.

# MSZ-S SERIES MSZ-G SERIES

Introducing a compact and stylish indoor unit with amazingly quiet performance. Not only are neat installations in small bedrooms possible, increase energy-savings by selecting the optimal capacity required for each room.



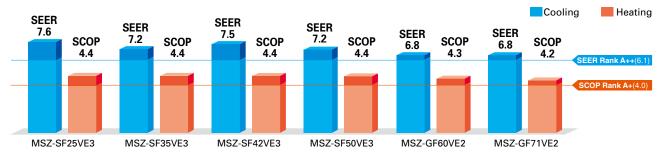
#### "Rank A++/A+" Energy Savings Achieved for Entire Range of Series







All models in the series, from the low-capacity 25 to the high-capacity 71, have achieved the "Rank A\*" for SEER and "Rank A\*" for SCOP as energy-savings rating. For home use, such as in bedrooms and living rooms, to light commercial use, such as in offices, our air conditioners are contributing to reduced energy consumption in a wide range.



#### Wide Line-up

Eight different indoor units (Model 15-71) are available to meet your diversified air conditioning needs.





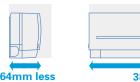


#### Compact and Stylish

(MSZ-SF15/20VA)

The stylish, square indoor unit adds a touch of class to any room interior. The compact design is 64mm thinner than our previous indoor unit with the lowest output capacity (MSZ-GE22VA).

#### Comparison with our previous model GE





#### Family Design

MSZ-SF15/20/25/35/42/50)

Models in the 25-50 class are introduced as single-split units while retaining the popular design of the SF15/20VA\* as indoor units exclusively for multi-systems. From small rooms to living rooms, it is possible to coordinate residences with a unified design.

\*Size may vary.





#### "Weekly Timer"



Easily set desired temperatures and operation start/stop times to match lifestyle patterns. Reduce wasted energy consumption by using the timer to prevent forgetting to turn off the unit and eliminate temperature setting adjustments.

#### ■ Example Operation Pattern (Winter/Heating mode)

|                          | Mon.   |      | Tues.  | Wed.   | Thurs.   | Fri.    | Sat.  | Sun.    |
|--------------------------|--|------|--|--|--|---------|---|---------|
| r.nn                     | ON   | 20°C | ON 20°C  | ON 20°C  | ON 20°C  | ON 20°C | ON 20°C   | ON 20°C |
| 6:00                     |  |      |  | tion at wake-up time   |  |         |   |         |
| 8:00                     | OFF  |      |  |  |  |         |   |         |
| 10:00                    |  |      | OFF  | OFF  | OFF  | OFF     | ON 18°C   | ON 18°C |
| 12:00<br>14:00           |  |      | Automatic  |  | Midday is warmer,<br>so the temperature is set lower |         |   |         |
| 15:00                    |  |      |  |  |  |         |   | ,       |
| 18:00                    | ON   | 20°C | ON 20°C  | ON 20°C  | ON 20°C  | ON 20°C | ON 20°C   | ON 20°C |
| 20:00                    |  |      | Automatically turi   | Automatically raises temperature setting to match time when outside-air temperature is low |  |         |   |         |
|                          |  |      |  |  |  |         |   |         |
| (uurning steeping nouts) | ON   | 18°C | ON 18°C  | ON 18°C  | ON 18°C  | ON 18°C | ON 18°C   | ON 18°C |
|                          | Automatically lowers temperature at bedtime for energy-saving operation at night |      |  |  |  |         |   |         |
| 14:00<br>16:00<br>18:00  |  | 20°C | Automatically turns on, synchronized with arrival at home  ON 18°C ON 18°C ON 18°C |  |  | ON 18°C | ON 20°C  Automatically raises ten match time when outsid  ON 18°C |         |

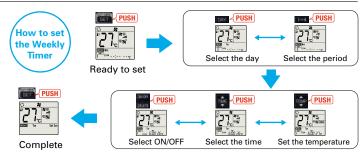
**Settings** 

Pattern Settings: Input up to four settings for each day

**Settings:** •Start/Stop operation •Temperature setting \*The operation mode cannot be set.

#### ■ Easy set-up using dedicated buttons -

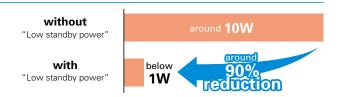




- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired patterns into the remote controller memory. Pushing the "CANCEL button will end the set-up process without sending the operation patterns to the indoor unit)
- It takes a few seconds to transmit the Weekly Timer operation patterns to the indoor unit. Please continue to point the remote controller at the indoor unit until all data has been sent.
   When "Weekly Timer" is set, temperature can not be set 10°C.

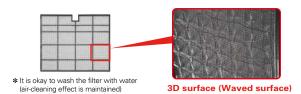
#### Low Standby Power

Electrical devices consume standby power even when they are not in actual use. While we obviously strive to reduce power consumption during actual use, reducing this wasted power that cannot be seen is also very important.



#### Air Purifying Filter (MSZ-SF25/35/42/50, MSZ-GF60/71)

This filter generates stable antibacterial and deodourising effects. The size of the three-dimensional surface has been increased as well, enlarging the filter capture area. These features give the Air Purifying Filter better dust collection performance than conventional filters. The superior air-cleaning effectiveness raises room comfort vet another level.



#### "i save" Mode

"i save" is a simplified setting function that recalls the preferred (preset) temperature by pressing a single button on the remote controller. Press the same button twice in repetition to immediately return to the previous temperature setting. Using this function contributes to comfortable, waste-free operation, realising the most suitable air conditioning settings and saving on power consumption when, for example, leaving the room or going to bed.



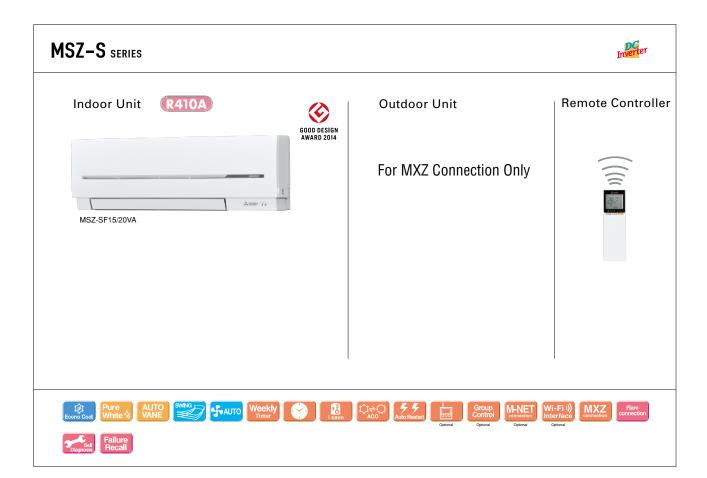
\* Temperature can be preset to 10°C when heating in the "i-save" mode.

#### Outdoor Units for Cold Region

Single split-type outdoor units are available in both standard and heater-equipped units. An electric heater is installed in each unit to prevent freezing in cold outdoor environments







| Туре            |                                       |                                 |        |                             |                             | Inverter H                             | leat Pump                              |  |                              |
|-----------------|---------------------------------------|---------------------------------|--------|-----------------------------|-----------------------------|--|--|--|------------------------------|
| Indoor U        | nit                                   |                                 |        | MSZ-SF15VA                  | MSZ-SF20VA                  | MSZ-SF25VE3                            | MSZ-SF25VE3                            | MSZ-SF35VE3                            | MSZ-SF35VE3                  |
| Outdoor         | Unit                                  |                                 |        | for MXZ o                   | onnection                   | MUZ-SF25VE                             | MUZ-SF25VEH                            | MUZ-SF35VE                             | MUZ-SF35VEH                  |
| Refrigera       | nt                                    |                                 |        |                             |                             | R41                                    | OA(*1)                                 |  |                              |
| Power           | Source                                |                                 |        |                             |                             | Outdoor Po                             | ower supply                            |  |                              |
| Supply          | Outdoor (V / Ph                       | ase / Hz )                      |        |                             |                             | 230/Si                                 | ngle/50                                |  |                              |
|                 | Design load                           |                                 | kW     | -                           | -                           | 2.5                                    | 2.5                                    | 3.5                                    | 3.5                          |
|                 | Annual electricity                    | consumption (*2)                | kWh/a  | -                           | -                           | 116                                    | 116                                    | 171                                    | 171                          |
|                 | SEER (*4)                             |                                 |        | -                           | -                           | 7.6                                    | 7.6                                    | 7.2                                    | 7.2                          |
| Cooling         |                                       | Energy efficiency class         |        | -                           | -                           | A++                                    | A++                                    | A++                                    | A++                          |
|                 |                                       | Rated                           | kW     | -                           | -                           | 2.5                                    | 2.5                                    | 3.5                                    | 3.5                          |
|                 | Capacity                              | Min-Max                         | kW     | -                           | -                           | 0.9-3.4                                | 0.9-3.4                                | 1.1-3.8                                | 1.1-3.8                      |
|                 | Total Input Rated                     |                                 | kW     | -                           | -                           | 0.600                                  | 0.600                                  | 1.080                                  | 1.080                        |
|                 | Design load                           |                                 | kW     | -                           | -                           | 2.4(-10°C)                             | 2.4(-10°C)                             | 2.9(-10°C)                             | 2.9(-10°C)                   |
|                 |                                       | at reference design temperature | kW     | -                           | -                           | 2.4(-10°C)                             | 2.4(-10°C)                             | 2.9(-10°C)                             | 2.9(-10°C)                   |
|                 | Declared<br>Capacity                  | at bivalent temperature         | kW     | -                           | -                           | 2.4(-10°C)                             | 2.4(-10°C)                             | 2.9(-10°C)                             | 2.9(-10°C)                   |
|                 | Оараспу                               | at operation limit temperature  | kW     | -                           | -                           | 2.0(-15°C)                             | 1.6(-20°C)                             | 2.2(-15°C)                             | 1.6(-20°C)                   |
| Heating         | Back up heating                       | capacity                        | kW     | -                           | -                           | 0.0(-10°C)                             | 0.0(-10°C)                             | 0.0(-10°C)                             | 0.0(-10°C)                   |
| (Average        | Annual electricity                    | consumption (*2)                | kWh/a  | -                           | -                           | 764                                    | 790                                    | 923                                    | 948                          |
| Season)(15)     | SCOP (*4)                             |                                 |        | -                           | -                           | 4.4                                    | 4.3                                    | 4.4                                    | 4.3                          |
|                 | Energy efficiency class               |                                 |        | -                           | =                           | A+                                     | A+                                     | A+                                     | A+                           |
|                 | Capacity                              | Rated                           | kW     | -                           | -                           | 3.2                                    | 3.2                                    | 4.0                                    | 4.0                          |
|                 | Сараспу                               | Min-Max                         | kW     | -                           | -                           | 1.0-4.1                                | 1.0-4.1                                | 1.3-4.6                                | 1.3-4.6                      |
|                 | Total Input                           | Rated                           | kW     | -                           | -                           | 0.780                                  | 0.780                                  | 1.030                                  | 1.030                        |
| Operatin        | g Current (Max)                       |                                 | Α      | -                           | -                           | 8.4                                    | 8.4                                    | 8.5                                    | 8.5                          |
|                 | Input                                 | Rated                           | kW     | 0.017                       | 0.019                       | 0.024                                  | 0.024                                  | 0.027                                  | 0.027                        |
|                 | Operating Current(Max)                |                                 | Α      | 0.17                        | 0.19                        | 0.2                                    | 0.2                                    | 0.3                                    | 0.3                          |
|                 | Dimensions H*W*D                      |                                 | mm     | 250-760-168                 | 250-760-168                 | 299-798-195                            | 299-798-195                            | 299-798-195                            | 299-798-195                  |
|                 | Weight                                |                                 | kg     | 7.7                         | 7.7                         | 10                                     | 10                                     | 10                                     | 10                           |
| Indoor<br>Unit  | Air Volume (SLo-Lo-                   | Cooling                         | m³/min | 3.5 - 3.9 - 4.6 - 5.5 - 6.4 | 3.5 - 3.9 - 4.6 - 5.5 - 6.9 | 3.2 - 4.1 - 5.6 - 7.2 - 9.1            | 3.2 - 4.1 - 5.6 - 7.2 - 9.1            | 3.2 - 4.1 - 5.6 - 7.2 - 9.1            | 3.2 - 4.1 - 5.6 - 7.2 - 9.1  |
| Oille           | Mid-Hi-SHi <sup>(*3)</sup> (Dry/Wet)) | Heating                         | m³/min | 3.7 - 4.4 - 5.0 - 6.0 - 6.8 | 3.7 - 4.4 - 5.0 - 6.0 - 7.3 | 3.0 - 4.1 - 6.7 - 8.2 - 10.3           | 3.0 - 4.1 - 6.7 - 8.2 - 10.3           | 3.0 - 4.1 - 6.7 - 8.3 - 11.0           | 3.0 - 4.1 - 6.7 - 8.3 - 11.0 |
|                 | Sound Level (SPL)                     | Cooling                         | dB(A)  | 21 - 26 - 30 - 35 - 40      | 21 - 26 - 30 - 35 - 42      | 19 <sup>(16)</sup> - 24 - 30 - 36 - 42 | 19 <sup>(*6)</sup> - 24 - 30 - 36 - 42 | 19 <sup>(*6)</sup> - 24 - 30 - 36 - 42 | 19(16) - 24 - 30 - 36 - 42   |
|                 | (SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )  | Heating                         | dB(A)  | 21 - 26 - 30 - 35 - 40      | 21 - 26 - 30 - 35 - 42      | 19 <sup>(16)</sup> - 24 - 34 - 39 - 45 | 19 <sup>(16)</sup> - 24 - 34 - 39 - 45 | 19 <sup>(*6)</sup> - 24 - 34 - 40 - 46 | 19(18) - 24 - 34 - 40 - 46   |
|                 | Sound Level (PWL)                     | Cooling                         | dB(A)  | 59                          | 60                          | 57                                     | 57                                     | 57                                     | 57                           |
|                 | Dimensions                            | H*W*D                           | mm     | -                           | -                           | 550-800-285                            | 550-800-285                            | 550-800-285                            | 550-800-285                  |
|                 | Weight                                |                                 | kg     | -                           | -                           | 31                                     | 31                                     | 31                                     | 31                           |
|                 | Air Volume                            | Cooling                         | m³/min | -                           | -                           | 31.1                                   | 31.1                                   | 35.9                                   | 35.9                         |
| Outdoor         | All Volume                            | Heating                         | m³/min | -                           | -                           | 30.7                                   | 30.7                                   | 35.9                                   | 35.9                         |
| Outdoor<br>Unit | Sound Level (SPL)                     | Cooling                         | dB(A)  | -                           | -                           | 47                                     | 47                                     | 49                                     | 49                           |
|                 | Southu Level (SFL)                    | Heating                         | dB(A)  | -                           | -                           | 48                                     | 48                                     | 50                                     | 50                           |
|                 | Sound Level (PWL)                     | Cooling                         | dB(A)  | -                           | -                           | 58                                     | 58                                     | 62                                     | 62                           |
|                 | Operating Curre                       | nt (Max)                        | Α      | -                           | -                           | 8.2                                    | 8.2                                    | 8.2                                    | 8.2                          |
|                 | Breaker Size                          |                                 | Α      | -                           | -                           | 10                                     | 10                                     | 10                                     | 10                           |
| Ext.            | Diameter                              | Liquid/Gas                      | mm     | 6.35/9.52                   | 6.35/9.52                   | 6.35 / 9.52                            | 6.35 / 9.52                            | 6.35 / 9.52                            | 6.35 / 9.52                  |
| Ext.<br>Piping  | Max.Length                            | Out-In                          | m      | -                           | -                           | 20                                     | 20                                     | 20                                     | 20                           |
| pg              | Max.Height                            | Out-In                          | m      | -                           | -                           | 12                                     | 12                                     | 12                                     | 12                           |
|                 | ed Operating                          | Cooling                         | °C     | -                           | -                           | -10 ~ +46                              | -10 ~ +46                              | -10 ~ +46                              | -10 ~ +46                    |
| Range (C        | Outdoor)                              | Heating                         | °C     | -                           | -                           | -15 ~ +24                              | -20 ~ +24                              | -15 ~ +24                              | -20 ~ +24                    |

<sup>(1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R410\hat{loa} is 2086 in the IPCC 4th Assessment Report.

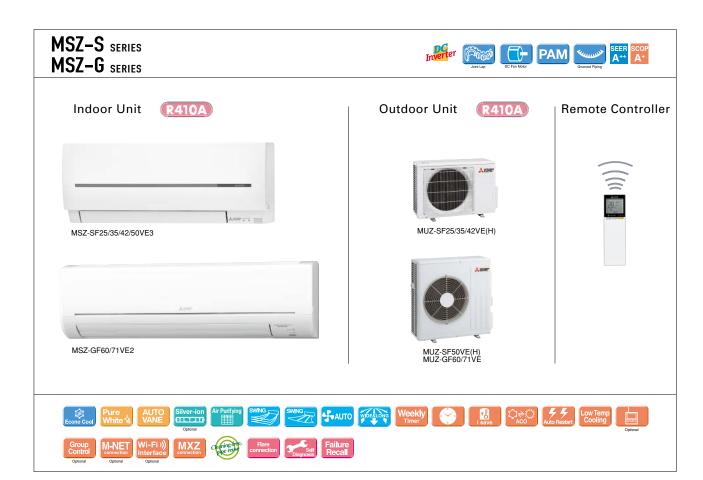
(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SH: Super High

(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(5) Please see page 51-52 for heating (warmer season) specifications.

(6) For single use: only 19dB(A). For multi use (MXZ): 21dB(A).



| Гуре       |                                       |                                 |        |                              |                              | Inverter H                             | leat Pump                              |                         |                        |
|------------|---------------------------------------|---------------------------------|--------|------------------------------|------------------------------|--|--|-------------------------|------------------------|
| ndoor Ur   | nit                                   |                                 |        | MSZ-SF42VE3                  | MSZ-SF42VE3                  | MSZ-SF50VE3                            | MSZ-SF50VE3                            | MSZ-GF60VE2             | MSZ-GF71VE2            |
| Outdoor I  | Unit                                  |                                 |        | MUZ-SF42VE                   | MUZ-SF42VEH                  | MUZ-SF50VE                             | MUZ-SF50VEH                            | MUZ-GF60VE              | MUZ-GF71VE             |
| Refrigera  | nt                                    |                                 |        |                              |                              | R41                                    | OA <sup>(*1)</sup>                     |                         | •                      |
| ower       | Source                                |                                 |        |                              |                              | Outdoor Po                             | ower supply                            |                         |                        |
| Supply     | Outdoor (V / Ph                       | ase / Hz )                      |        |                              |                              | 230/Si                                 | ngle/50                                |                         |                        |
|            | Design load                           |                                 | kW     | 4.2                          | 4.2                          | 5.0                                    | 5.0                                    | 6.1                     | 7.1                    |
|            | Annual electricity                    | consumption (*2)                | kWh/a  | 196                          | 196                          | 246                                    | 246                                    | 311                     | 364                    |
|            | SEER (*4)                             |                                 |        | 7.5                          | 7.5                          | 7.2                                    | 7.2                                    | 6.8                     | 6.8                    |
| Cooling    |                                       | Energy efficiency class         |        | A++                          | A++                          | A++                                    | A++                                    | A++                     | A++                    |
|            |                                       | Rated                           | kW     | 4.2                          | 4.2                          | 5.0                                    | 5.0                                    | 6.1                     | 7.1                    |
|            | Capacity                              | Min-Max                         | kW     | 0.8-4.5                      | 0.8-4.5                      | 1.4-5.4                                | 1.4-5.4                                | 1.4-7.5                 | 2.0-8.7                |
|            | Total Input                           | Rated                           | kW     | 1.340                        | 1.340                        | 1.660                                  | 1.660                                  | 1.790                   | 2.130                  |
|            | Design load                           |                                 | kW     | 3.8 (-10°C)                  | 3.8 (-10°C)                  | 4.2 (-10°C)                            | 4.2 (-10°C)                            | 4.6 (-10°C)             | 6.7 (-10°C)            |
|            |                                       | at reference design temperature | kW     | 3.8 (-10°C)                  | 3.8 (-10°C)                  | 4.2 (-10°C)                            | 4.2 (-10°C)                            | 4.6 (-10°C)             | 6.7 (-10°C)            |
|            | Declared                              | at bivalent temperature         | kW     | 3.8 (-10°C)                  | 3.8 (-10°C)                  | 4.2 (-10°C)                            | 4.2 (-10°C)                            | 4.6 (-10°C)             | 6.7 (-10°C)            |
|            | Capacity                              | at operation limit temperature  | kW     | 3.4 (-15°C)                  | 2.2 (-20°C)                  | 3.4 (-15°C)                            | 2.3 (-20°C)                            | 3.7 (-15°C)             | 5.4 (-15°C)            |
| eating     | Back up heating                       |                                 | kW     | 0.0 (-10°C)                  | 0.0 (-10°C)                  | 0.0 (-10°C)                            | 0.0 (-10°C)                            | 0.0 (-10°C)             | 0.0 (-10°C)            |
| verage     | Annual electricity                    |                                 | kWh/a  | 1215                         | 1242                         | 1351                                   | 1380                                   | 1489                    | 2204                   |
| eason)(*5) | SCOP (*4)                             |                                 |        | 4.4                          | 4.3                          | 4.4                                    | 4.3                                    | 4.3                     | 4.2                    |
|            | Energy efficiency class               |                                 |        | A+                           | A+                           | A+                                     | A+                                     | A+                      | A+                     |
|            |                                       | Rated                           | kW     | 5.4                          | 5.4                          | 5.8                                    | 5.8                                    | 6.8                     | 8.1                    |
|            | Capacity                              | Min-Max                         | kW     | 1.3-6.0                      | 1.3-6.0                      | 1.4-7.3                                | 1.4-7.3                                | 2.0-9.3                 | 2,2-9,9                |
|            | Total Input                           | Rated                           | kW     | 1,580                        | 1,580                        | 1,700                                  | 1,700                                  | 1,810                   | 2,230                  |
| peratin    | g Current (Max)                       |                                 | Α      | 9.5                          | 9.5                          | 12.3                                   | 12.3                                   | 14.5                    | 16.6                   |
|            | Input                                 | Rated                           | kW     | 0.027                        | 0.027                        | 0.035                                  | 0.035                                  | 0.062                   | 0.058                  |
|            | Operating Current(Max)                |                                 | Α      | 0.3                          | 0.3                          | 0.3                                    | 0.3                                    | 0.5                     | 0,5                    |
|            | Dimensions                            | H*W*D                           | mm     | 299-798-195                  | 299-798-195                  | 299-798-195                            | 299-798-195                            | 325-1100-238            | 325-1100-238           |
|            | Weight                                |                                 | kg     | 10                           | 10                           | 10                                     | 10                                     | 16                      | 16                     |
| ndoor      | Air Volume (SLo-Lo-                   | Cooling                         | m³/min | 4.7 - 5.8 - 6.7 - 7.9 - 9.1  | 4.7 - 5.8 - 6.7 - 7.9 - 9.1  | 5.1 - 6.2 - 7.0 - 8.2 - 9.9            | 5.1 - 6.2 - 7.0 - 8.2 - 9.9            | 9.8-11.3-13.4-15.6-18.3 | 9.7-11.5-13.3-15.4-17. |
| nit        | Mid-Hi-SHi <sup>(*3)</sup> (Dry/Wet)) | Heating                         | m³/min | 4.7 - 5.8 - 7.2 - 9.1 - 11.4 | 4.7 - 5.8 - 7.2 - 9.1 - 11.4 | 5.1 - 6.4 - 8.0 - 9.8 - 12.0           | 5.1 - 6.4 - 8.0 - 9.8 - 12.0           | 9.8-11.3-13.4-15.6-18.3 | 10.2-11.5-13.3-15.4-17 |
|            | Sound Level (SPL)                     | Cooling                         | dB(A)  | 26(*6) - 31 - 34 - 38 - 42   | 26(*6) - 31 - 34 - 38 - 42   | 28 <sup>(*7)</sup> - 33 - 36 - 40 - 45 | 28 <sup>(*7)</sup> - 33 - 36 - 40 - 45 | 29 - 37 -41 - 45 - 49   | 30 - 37 - 41 - 45 - 49 |
|            | (SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )  | Heating                         | dB(A)  | 26(*6) - 31 - 36 - 42 - 47   | 26(*6) - 31 - 36 - 42 - 47   | 28 <sup>(*7)</sup> - 33 - 38 - 43 - 49 | 28 <sup>(*7)</sup> - 33 - 38 - 43 - 49 | 29 - 37 - 41 - 45 - 49  | 30 - 37 - 41 - 45 - 49 |
|            | Sound Level (PWL)                     | Cooling                         | dB(A)  | 57                           | 57                           | 58                                     | 58                                     | 65                      | 65                     |
|            | Dimensions                            | H*W*D                           | mm     | 550-800-285                  | 550-800-285                  | 880-840-330                            | 880-840-330                            | 880-840-330             | 880-840-330            |
|            | Weight                                |                                 | kg     | 35                           | 35                           | 55                                     | 55                                     | 50                      | 53                     |
|            |                                       | Cooling                         | m³/min | 35.2                         | 35.2                         | 44.6                                   | 44.6                                   | 49.2                    | 50.1                   |
|            | Air Volume                            | Heating                         | m³/min | 33.6                         | 33.6                         | 44.6                                   | 44.6                                   | 49.2                    | 48.2                   |
| utdoor     |                                       | Cooling                         | dB(A)  | 50                           | 50                           | 52                                     | 52                                     | 55                      | 55                     |
| nit        | Sound Level (SPL)                     | Heating                         | dB(A)  | 51                           | 51                           | 52                                     | 52                                     | 55                      | 55                     |
|            | Sound Level (PWL)                     |                                 | dB(A)  | 63                           | 63                           | 65                                     | 65                                     | 65                      | 65                     |
|            | Operating Curre                       |                                 | Α Α    | 9.2                          | 9.2                          | 12                                     | 12                                     | 14                      | 16.1                   |
|            | Breaker Size                          |                                 | A      | 10                           | 10                           | 16                                     | 16                                     | 20                      | 20                     |
|            | Diameter                              | Liquid/Gas                      | mm     | 6.35 / 9.52                  | 6.35 / 9.52                  | 6.35 / 12.7                            | 6.35 / 12.7                            | 6.35/15.88              | 9.52/15.88             |
| xt.        | Max.Length                            | Out-In                          | m      | 20                           | 20                           | 30                                     | 30                                     | 30                      | 30                     |
| iping      | Max.Height                            | Out-In                          | m      | 12                           | 12                           | 15                                     | 15                                     | 15                      | 15                     |
| luarante   |                                       | Cooling                         | *C     | -10 ~ +46                    | -10 ~ +46                    | -10 ~ +46                              | -10 ~ +46                              | -10 ~ +46               | -10 ~ +46              |
| auui aiitt | ed Operating Cooling lutdoor) Heating |                                 | °C     | -15 ~ +24                    | -20 ~ +24                    | -15 ~ +24                              | -20 ~ +24                              | -15 ~ +24               | -15 ~ +24              |

<sup>(1)</sup> Refigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming potential refigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 6 disassemble the product yourself or for product yourself or and always ask a professional. The GWP of P41OA is 2088 in the IPCC 4th Assessment Report.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SH: Super High

(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(5) Piease see page 51-52 for heating (warmer season) specifications.

(6) For single use: only 28dB(A), For multi use (MXZ): 28dB(A).

(7) For single use: only 28dB(A), For multi use (MXZ): 30dB(A).



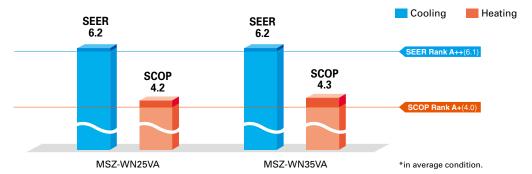
## Advanced Inverter Control – Efficient Operation All the Time







Mitsubishi Electric's cutting-edge inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises an Energy Rank "A+".



#### Wider Heating Operating Range

As a result of an extended operating range in heating, these models accommodate a wider range of usage environments and applications than previous models.



#### Wi-Fi and System Control

#### Wi-Fi Interface (Optional)

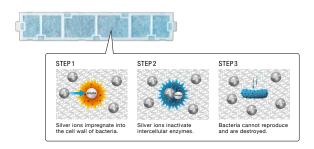
Optional interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.

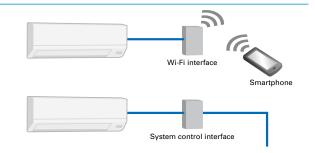
#### System Control Interface (Optional)

- •Remote on/off operation is possible by input to the connector.
- •Depending on the interface used, connecting a wired remotecontrol such as the PAR-40MAA is possible.
- •Centralised control is possible when connected to M-NET.
- \*Wi-Fi Interface and System Control Interface cannot be used simultaneously.

#### Silver-ionized Air Purifier Filter

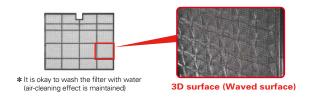
The high performance filter is attached as standard. Captures the bacteria, pollen and other allergens in the air and neutralises them.

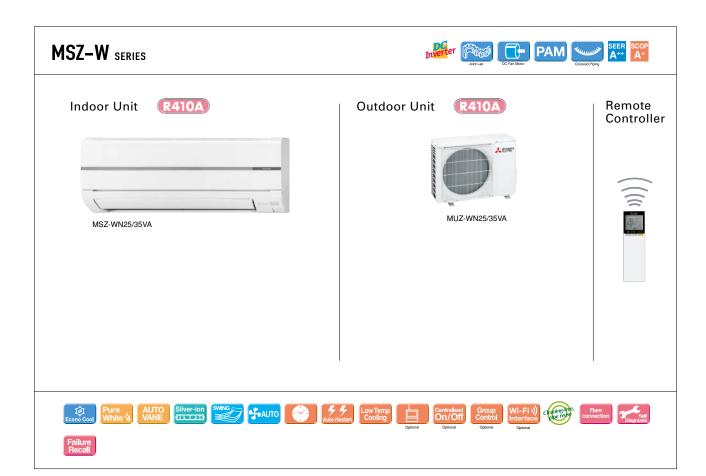




#### Air Purifying Filter

This filter generates stable antibacterial and deodourising effects. The size of the three-dimensional surface has been increased as well, enlarging the filter capture area. These features give the Air Purifying Filter better dust collection performance than conventional filters. The superior air-cleaning effectiveness raises room comfort yet another level.





| Туре            |                                     |                                 |        | Inverter I             | Heat Pump              |
|-----------------|-------------------------------------|---------------------------------|--------|------------------------|------------------------|
| Indoor Ur       | nit                                 |                                 |        | MSZ-WN25VA             | MSZ-WN35VA             |
| Outdoor I       | Jnit                                |                                 |        | MUZ-WN25VA             | MUZ-WN35VA             |
| Refrigera       |                                     | *                               |        |                        | 10A <sup>(*1)</sup>    |
| Power           | Source                              |                                 |        | Indoor Pc              | ower Supply            |
| Supply          | Outdoor (V / Ph                     | ase / Hz )                      |        | 230V/Si                | ngle/50Hz              |
|                 | Design load                         |                                 | kW     | 2.5                    | 3.1                    |
|                 | Annual electricity consumption (*2) |                                 | kWh/a  | 141                    | 173                    |
|                 | SEER (*4)                           |                                 |        | 6.2                    | 6.2                    |
| Cooling         |                                     | Energy efficiency class         | ,      | A++                    | A++                    |
|                 | 0                                   | Rated                           | kW     | 2.5                    | 3.15                   |
|                 | Capacity                            | Min-Max                         | kW     | 1.3 - 3.0              | 1.4 - 3.5              |
|                 | Total Input                         | Rated                           | kW     | 0.710                  | 1.020                  |
|                 | Design load                         | *                               | kW     | 1.9(-10°C)             | 2.4(-10°C)             |
|                 |                                     | at reference design temperature | kW     | 1.9(-10°C)             | 2.4(-10°C)             |
|                 | Declared<br>Capacity                | at bivalent temperature         | kW     | 1.9(-10°C)             | 2.4(-10°C)             |
|                 |                                     | at operation limit temperature  | kW     | 1.6(-15°C)             | 2.0(-15°C)             |
| Heating         | Back up heating                     | capacity                        | kW     | 0.0(-10°C)             | 0.0(-10°C)             |
| (Average        | Annual electricity                  | consumption (*2)                | kWh/a  | 628                    | 793                    |
| Season)(*5)     | SCOP (*4)                           |                                 |        | 4.2                    | 4.3                    |
|                 |                                     | Energy efficiency class         |        | A <sup>+</sup>         | A <sup>+</sup>         |
|                 | Capacity                            | Rated                           | kW     | 3.15                   | 3.60                   |
|                 |                                     | Min-Max                         | kW     | 0.9 - 3.5              | 1.1 - 4.1              |
|                 | Total Input                         | Rated                           | kW     | 0.850                  | 0.975                  |
| Operatin        | g Current (Max)                     | ,                               | Α      | 5.8                    | 6.5                    |
|                 | Input                               | Rated                           | kW     | 0.020                  | 0.026                  |
|                 | Operating Current(Max)              |                                 | Α      | 0.3                    | 0.3                    |
|                 | Dimensions                          | H*W*D                           | mm     | 290-799-232            | 290-799-232            |
|                 | Weight                              |                                 | kg     | 9                      | 9                      |
| Indoor<br>Unit  | Air Volume (Lo-Mid-                 | Cooling                         | m³/min | 3.8 - 5.5 - 7.3 - 9.5  | 3.8 - 5.7 - 7.8 - 11.4 |
| Oille           | Hi-SHi <sup>(*3)</sup> (Dry/Wet))   | Heating                         | m³/min | 3.5 - 5.5 - 7.5 - 10.0 | 3.5 - 5.5 - 7.5 - 10.3 |
|                 | Sound Level (SPL)                   | Cooling                         | dB(A)  | 22 - 30 - 37 - 43      | 22 - 31 - 38 - 46      |
|                 | (Lo-Mid-Hi-SHi <sup>(*3)</sup> )    | Heating                         | dB(A)  | 23 - 30 - 37 - 43      | 23 - 30 - 37 - 44      |
|                 | Sound Level (PWL)                   | Cooling                         | dB(A)  | 57                     | 60                     |
|                 | Dimensions                          | H*W*D                           | mm     | 538-699-249            | 538-699-249            |
|                 | Weight                              |                                 | kg     | 24                     | 25                     |
|                 | Air Volume                          | Cooling                         | m³/min | 31.5                   | 31.5                   |
| 0.44-           | All Volume                          | Heating                         | m³/min | 31.5                   | 31.5                   |
| Outdoor<br>Unit | Sound Level (SPL)                   | Cooling                         | dB(A)  | 50                     | 52                     |
| J.III           |                                     | Heating                         | dB(A)  | 50                     | 52                     |
|                 |                                     |                                 | dB(A)  | 63                     | 64                     |
|                 | Operating Curre                     | ent (Max)                       | Α      | 5.5                    | 6.2                    |
|                 | Breaker Size                        |                                 | Α      | 10                     | 10                     |
| Evt             | Diameter                            | Liquid/Gas                      | mm     | 6.35/9.52              | 6.35/9.52              |
| Ext.<br>Piping  | Max.Length                          | Out-In                          | m      | 20                     | 20                     |
| pg              | Max.Height                          | Out-In                          | m      | 12                     | 12                     |
|                 | ed Operating                        | Cooling                         | *C     | -10 ~ +46              | -10 ~ +46              |
| Range (C        | outdoor)                            | Heating                         | °C     | -15 ~ +24              | -15 ~ +24              |

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or Gasssemble the product yourself or product yourself and always ask a professional. The GWP of R41Oa is 2088 in the IPCO 4th Assessment Report.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SH: Super High

(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

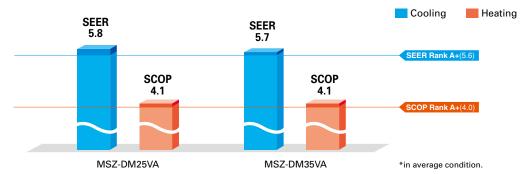
(5) Please see page 51-52 for heating (warmer season) specifications.



## Advanced Inverter Control -Efficient Operation All the Time Inverter



Mitsubishi Electric's cutting-edge inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises an Energy Rank "A+".



#### Wider Cooling Operating Range

As a result of an extended operating range in cooling, these models accommodate a wider range of usage environments and applications than previous models.



#### Wi-Fi and System Control

#### Wi-Fi Interface (Optional)

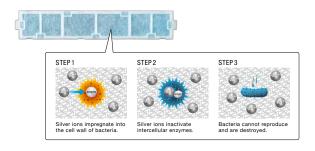
Optional interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.

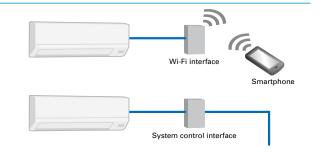
#### System Control Interface (Optional)

- •Remote on/off operation is possible by input to the connector.
- •Depending on the interface used, connecting a wired remotecontrol such as the PAR-40MAA is possible.
- •Centralised control is possible when connected to M-NET.
- \*Wi-Fi Interface and System Control Interface cannot be used simultaneously.

#### Silver-ionized Air Purifier Filter

The high performance filter is attached as standard. Captures the bacteria, pollen and other allergens in the air and neutralises them.

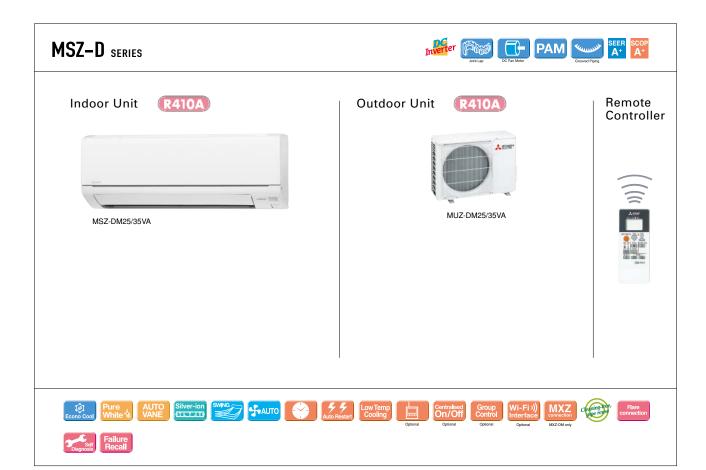




#### **Compact Units**

The width of both indoor and outdoor units are compact, making installation in smaller, tighter spaces possible.





| Туре            |                                       |                                 |        | Inverter l             | Heat Pump              |  |  |
|-----------------|---------------------------------------|---------------------------------|--------|------------------------|------------------------|--|--|
| Indoor Ur       | nit                                   |                                 |        | MSZ-DM25VA             | MSZ-DM35VA             |  |  |
| Outdoor I       | Jnit                                  |                                 |        | MUZ-DM25VA             | MUZ-DM35VA             |  |  |
| Refrigera       | nt                                    |                                 |        |                        | 10A <sup>(*1)</sup>    |  |  |
| Power           | Source                                |                                 |        | Indoor Pc              | ower supply            |  |  |
| Supply          | Outdoor (V/Ph                         | ase / Hz )                      |        | 230V/Si                | ngle/50Hz              |  |  |
|                 | Design load                           |                                 | kW     | 2.5                    | 3.1                    |  |  |
|                 | Annual electricity consumption (*2)   |                                 | kWh/a  | 149                    | 190                    |  |  |
|                 | SEER (*4)                             |                                 |        | 5.8                    | 5.7                    |  |  |
| Cooling         | Energy efficiency c                   |                                 |        | A <sup>+</sup>         | A <sup>+</sup>         |  |  |
| _               |                                       | Rated                           | kW     | 2.5                    | 3.15                   |  |  |
|                 | Capacity                              | Min-Max                         | kW     | 1.3 - 3.0              | 1.4 - 3.5              |  |  |
|                 | Total Input                           | Rated                           | kW     | 0.710                  | 1.020                  |  |  |
|                 | Design load                           |                                 | kW     | 1.9 (-10°C)            | 2.4 (-10°C)            |  |  |
|                 |                                       | at reference design temperature | kW     | 1.9 (-10°C)            | 2.4 (-10°C)            |  |  |
|                 | Declared<br>Capacity                  | at bivalent temperature         | kW     | 1.9 (-10°C)            | 2.4 (-10°C)            |  |  |
|                 | Capacity                              | at operation limit temperature  | kW     | 1.9 (-10°C)            | 2.4 (-10°C)            |  |  |
| Heating         | Back up heating                       |                                 | kW     | 0.0 (-10°C)            | 0.0 (-10°C)            |  |  |
| (Average        | Annual electricity                    | consumption (*2)                | kWh/a  | 647                    | 809                    |  |  |
| Season)(*5)     | SCOP (*4)                             |                                 |        | 4.1                    | 4.1                    |  |  |
|                 | Energy efficiency class               |                                 |        | A <sup>+</sup>         | A <sup>+</sup>         |  |  |
|                 |                                       | Rated                           | kW     | 3.15                   | 3.6                    |  |  |
|                 | Capacity                              | Min-Max                         | kW     | 0.9 - 3.5              | 1.1 - 4.1              |  |  |
|                 | Total Input                           | Total Input Rated               |        | 0.850                  | 0.975                  |  |  |
| Operatin        | g Current (Max)                       | •                               | Α      | 5.8                    | 6.5                    |  |  |
|                 | Input                                 | Rated                           | kW     | 0.020                  | 0.024                  |  |  |
|                 | Operating Current(Max)                |                                 | А      | 0.3                    | 0.3                    |  |  |
|                 | Dimensions                            | H*W*D                           | mm     | 290-799-232            | 290-799-232            |  |  |
|                 | Weight                                |                                 | kg     | 9                      | 9                      |  |  |
| Indoor<br>Unit  | Air Volume (SLo-Lo-                   | Cooling                         | m³/min | 3.8 - 5.5 - 7.3 - 9.5  | 3.8 - 5.7 - 7.8 - 10.9 |  |  |
| Oille           | Mid-Hi-SHi <sup>(+3)</sup> (Dry/Wet)) | Heating                         | m³/min | 3.5 - 5.5 - 7.5 - 10.0 | 3.5 - 5.5 - 7.5 - 10.3 |  |  |
|                 | Sound Level (SPL)                     | Cooling                         | dB(A)  | 22 - 30 - 37 - 43      | 22 - 31 - 38 - 45      |  |  |
|                 | (SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )  | Heating                         | dB(A)  | 23 - 30 - 37 - 43      | 23 - 30 - 37 - 44      |  |  |
|                 | Sound Level (PWL)                     | Cooling                         | dB(A)  | 57                     | 60                     |  |  |
|                 | Dimensions                            | H*W*D                           | mm     | 538-699-249            | 538-699-249            |  |  |
|                 | Weight                                |                                 | kg     | 24                     | 25                     |  |  |
|                 | Air Volume                            | Cooling                         | m³/min | 31.5                   | 31.5                   |  |  |
| 0.44-           | All Volume                            | Heating                         | m³/min | 31.5                   | 31.5                   |  |  |
| Outdoor<br>Unit | Sound Level (SPL)                     | Cooling                         | dB(A)  | 50                     | 51                     |  |  |
| J.111           |                                       | Heating                         | dB(A)  | 50                     | 51                     |  |  |
|                 |                                       | Cooling                         | dB(A)  | 63                     | 64                     |  |  |
|                 | Operating Curre                       | Operating Current (Max)         |        | 5.5                    | 6.2                    |  |  |
|                 | Breaker Size                          |                                 | А      | 10                     | 10                     |  |  |
| Evt             | Diameter                              | Liquid/Gas                      | mm     | 6.35/9.52              | 6.35/9.52              |  |  |
| Ext.<br>Piping  | Max.Length                            | Out-In                          | m      | 20                     | 20                     |  |  |
| pg              | Max.Height                            | Out-In                          | m      | 12                     | 12                     |  |  |
|                 | ed Operating                          | Cooling                         | °C     | -10 ~ +46              | -10 ~ +46              |  |  |
| Range (C        | outdoor)                              | Heating                         | °C     | -10 ~ +24              | -10 ~ +24              |  |  |

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or Gasssemble the product yourself or product yourself and always ask a professional. The GWP of R41Oa is 2088 in the IPCO 4th Assessment Report.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SH: Super High

(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(5) Please see page 51-52 for heating (warmer season) specifications.



#### Stylish Design with Flat Panel Front

A stylish flat panel design is employed for the front of the indoor unit. The simple look matches room aesthetics.



## Advanced Inverter Control – Efficient Operation All the Time







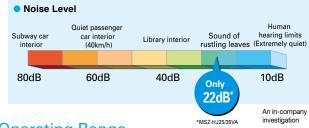




Mitsubishi Electric's cutting-edge inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises an Energy Rank "A" rating for 25/35 classes and "A\*" for 50/60/71 classes.

#### Silent Operation

Quiet, relaxing space is within reach. Operational noise is a low 22dB (25/35 classes). Operation is so silent you might even forget the air conditioner is on.



#### Long Piping Length

Compared to previous models, the piping length is significantly increased, further enhancing the ease and flexibility of installation.

|                              | MSZ-HJ60/71 | MSZ-HJ25/35/50 | MSZ-HC |
|------------------------------|-------------|----------------|--------|
| Max piping length            | 30m         | 20m            | 10m    |
| Max piping height difference | 15m         | 12m            | 5m     |

#### **Operating Range**

As a result of an extended operating range in cooling, these models accommodate a wider range of usage environments and applications than previous models.



#### **Compact Units**

The widths of both indoor and outdoor units are compact, making installation in smaller, tighter spaces possible.

7-m

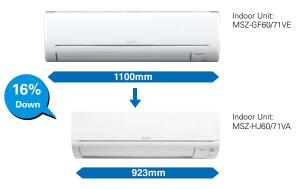
Only 799mm width

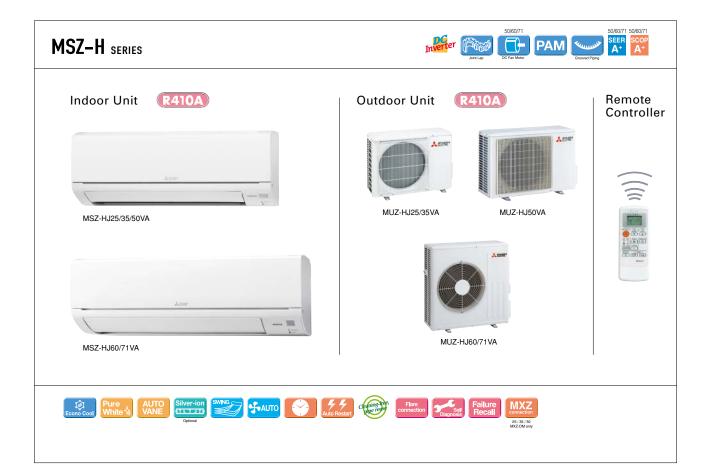
Indoor Unit: MSZ-HJ25/35/50VA

Outdoor Unit: MUZ-HJ25/35VA

Only 699mm width

Compared to other models, width is down by 16%.





| Туре   |                                       |                                 |        |                        | Inverter Heat Pump     |                         |                          |                           |
|--|---------------------------------------|---------------------------------|--------|------------------------|------------------------|-------------------------|--------------------------|---------------------------|
| Indoor Ur                                      | nit                                   |                                 |        | MSZ-HJ25VA             | MSZ-HJ35VA             | MSZ-HJ50VA              | MSZ-HJ60VA               | MSZ-HJ71VA                |
| Outdoor I                                      | Jnit                                  |                                 |        | MUZ-HJ25VA             | MUZ-HJ35VA             | MUZ-HJ50VA              | MUZ-HJ60VA               | MUZ-HJ71VA                |
| Refrigera                                      | nt                                    |                                 |        |                        |                        | R410A <sup>(*1)</sup>   |                          |                           |
| Power  | Source                                |                                 |        |                        |                        | Indoor Power supply     |                          |                           |
| Supply   | Outdoor (V / Ph                       | ase / Hz )                      |        |                        |                        | 230V/Single/50Hz        |                          |                           |
|  | Design load                           |                                 | kW     | 2.5                    | 3.1                    | 5.0                     | 6.1                      | 7.1                       |
|  | Annual electricity consumption (*2)   |                                 | kWh/a  | 171                    | 212                    | 292                     | 354                      | 441                       |
|  | SEER (*4)                             |                                 |        | 5.1                    | 5.1                    | 6.0                     | 6.0                      | 5.6                       |
| Cooling  |                                       | Energy efficiency class         |        | A                      | A                      | A+                      | A+                       | A+                        |
|  | Capacity                              | Rated                           | kW     | 2.5                    | 3.15                   | 5.0                     | 6.1                      | 7.1                       |
|  | Сарасіту                              | Min-Max                         | kW     | 1.3 - 3.0              | 1.4 - 3.5              | 1.3 - 5.0               | 1.7 - 7.1                | 1.8 - 7.1                 |
|  | Total Input                           | Rated                           | kW     | 0.730                  | 1.040                  | 2.050                   | 1.900                    | 2.330                     |
|  | Design load                           |                                 | kW     | 1.9 (-10°C)            | 2.4 (-10°C)            | 3.8 (-10°C)             | 4.6 (-10°C)              | 5.4 (-10°C)               |
|  |                                       | at reference design temperature | kW     | 1.9 (-10°C)            | 2.4 (-10°C)            | 3.8 (-10°C)             | 4.6 (-10°C)              | 5.4 (-10°C)               |
|  | Declared<br>Capacity                  | at bivalent temperature         | kW     | 1.9 (-10°C)            | 2.4 (-10°C)            | 3.8 (-10°C)             | 4.6 (-10°C)              | 5.4 (-10°C)               |
|  | Capacity                              | at operation limit temperature  | kW     | 1.9 (-10°C)            | 2.4 (-10°C)            | 3.8 (-10°C)             | 4.6 (-10°C)              | 5.4 (-10°C)               |
| Heating<br>(Average<br>Season) <sup>(*5)</sup> | Back up heating                       | capacity                        | kW     | 0.0 (-10°C)            | 0.0 (-10°C)            | 0.0 (-10°C)             | 0.0 (-10°C)              | 0.0 (-10°C)               |
|  | Annual electricity                    | consumption (*2)                | kWh/a  | 698                    | 885                    | 1267                    | 1544                     | 1854                      |
|  | SCOP (*4)                             |                                 |        | 3.8                    | 3.8                    | 4.2                     | 4.1                      | 4.0                       |
|  |                                       | Energy efficiency class         |        | A                      | Α                      | A+                      | A+                       | A+                        |
|  | Capacity                              | Rated                           | kW     | 3.15                   | 3.6                    | 5.4                     | 6.8                      | 8.1                       |
|  | Сарасну                               | Min-Max                         | kW     | 0.9 - 3.5              | 1.1 - 4.1              | 1.4 - 6.5               | 1.5 - 8.4                | 1.5 - 8.5                 |
|  | Total Input                           | Rated                           | kW     | 0.870                  | 0.995                  | 1.480                   | 1.970                    | 2.440                     |
| Operatin                                       | g Current (Max)                       |                                 | Α      | 5.8                    | 6.5                    | 9.8                     | 12.5                     | 12.5                      |
|  | Input                                 | Rated                           | kW     | 0.020                  | 0.024                  | 0.037                   | 0.055                    | 0.055                     |
|  | Operating Current(Max)                |                                 | Α      | 0.3                    | 0.3                    | 0.4                     | 0.5                      | 0.5                       |
|  | Dimensions H*W*D                      |                                 | mm     | 290-799-232            | 290-799-232            | 290-799-232             | 305-923-250              | 305-923-250               |
|  | Weight                                |                                 | kg     | 9                      | 9                      | 9                       | 13                       | 13                        |
| Indoor<br>Unit                                 | Air Volume (SLo-Lo-                   | Cooling                         | m³/min | 3.8 - 5.5 - 7.3 - 9.5  | 3.8 - 5.7 - 7.8 - 10.9 | 6.3 - 9.1 - 11.1 - 12.9 | 9.3 - 12.2 - 15.0 - 19.9 | 10.0 - 12.2 - 15.0 - 19.9 |
| Oilit  | Mid-Hi-SHi <sup>(*3)</sup> (Dry/Wet)) | Heating                         | m³/min | 3.5 - 5.5 - 7.5 - 10.0 | 3.5 - 5.5 - 7.5 - 10.3 | 6.1 - 8.3 - 11.1 - 14.3 | 9.4 - 12.5 - 16.0 - 19.9 | 10.3 - 12.7 - 16.4 - 19.9 |
|  | Sound Level (SPL)                     | Cooling                         | dB(A)  | 22 - 30 - 37 - 43      | 22 - 31 - 38 - 45      | 28 - 36 - 40 - 45       | 31 - 38 - 44 - 50        | 33 - 38 - 44 - 50         |
|  | (SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )  | Heating                         | dB(A)  | 23 - 30 - 37 - 43      | 23 - 30 - 37 - 44      | 27 - 34 - 41 - 47       | 31 - 38 - 44 - 49        | 33 - 38 - 44 - 49         |
|  | Sound Level (PWL)                     | Cooling                         | dB(A)  | 57                     | 60                     | 60                      | 65                       | 65                        |
|  | Dimensions                            | H*W*D                           | mm     | 538-699-249            | 538-699-249            | 550-800-285             | 880-840-330              | 880-840-330               |
|  | Weight                                |                                 | kg     | 24                     | 25                     | 36                      | 55                       | 55                        |
|  | Air Volume                            | Cooling                         | m³/min | 31.5                   | 31.5                   | 36.3                    | 47.9                     | 49.3                      |
| Outdoor  | All Volume                            | Heating                         | m³/min | 31.5                   | 31.5                   | 34.8                    | 47.9                     | 47.9                      |
| Unit   | Sound Level (SPL)                     | Cooling                         | dB(A)  | 50                     | 50                     | 50                      | 55                       | 55                        |
| •  | ` '                                   | Heating                         | dB(A)  | 50                     | 50                     | 51                      | 55                       | 55                        |
|  | Sound Level (PWL)                     |                                 | dB(A)  | 63                     | 64                     | 64                      | 65                       | 66                        |
|  | Operating Curre                       | nt (Max)                        | Α      | 5.5                    | 6.2                    | 9.4                     | 12.0                     | 12.0                      |
|  | Breaker Size                          |                                 | Α      | 10                     | 10                     | 12                      | 16                       | 16                        |
| Ext.   | Diameter                              | Liquid/Gas                      | mm     | 6.35/9.52              | 6.35/9.52              | 6.35/12.7               | 6.35/15.88               | 9.52/15.88                |
| Piping   | Max.Length                            | Out-In                          | m      | 20                     | 20                     | 20                      | 30                       | 30                        |
| 9  | Max.Height                            | Out-In                          | m      | 12                     | 12                     | 12                      | 15                       | 15                        |
|  | ed Operating                          | Cooling                         | ℃      | +15 ~ +46              | +15 ~ +46              | +15 ~ +46               | +15 ~ +46                | +15 ~ +46                 |
| Range (C                                       | Outdoor)                              | Heating                         | ℃      | -10 ~ +24              | -10 ~ +24              | -10 ~ +24               | -10 ~ +24                | -10 ~ +24                 |

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or Gasssemble the product yourself or product yourself and always ask a professional. The GWP of R41Oa is 2088 in the IPCO 4th Assessment Report.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SH: Super High

(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(5) Please see page 51-52 for heating (warmer season) specifications.



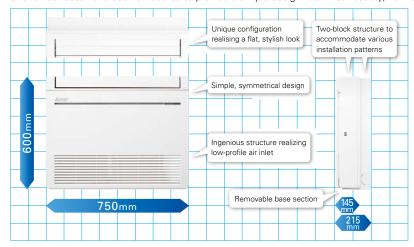
High Capacity, Energy Savings and a Design in Harmony with Living Spaces Raise the Value of Your Room to the Next Level.



#### Simple, Flat Design

Uneven surfaces have been smoothed to provide a simple design with linear beauty, harmonised with all types of interiors.

**R32** 





#### **New Line-up**

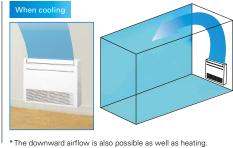
New models have been introduced to expand the line-up. The diverse selection enables the best solution for both customers and locations.

| Capacity | 2.5kW    | 3.5kW | 5.0kW | 6.0kW |  |  |  |  |  |  |  |
|----------|----------|-------|-------|-------|--|--|--|--|--|--|--|
| MFZ-KJ   | ✓        | ✓     | ✓     |       |  |  |  |  |  |  |  |
|          | <b>↓</b> |       |       |       |  |  |  |  |  |  |  |
| MFZ-KT   | ✓        | ✓     | ✓     | ✓     |  |  |  |  |  |  |  |

#### Multi-flow Vane

Three uniquely shaped vanes control the airflow and allow the freedom to customize comfort according to preferences.



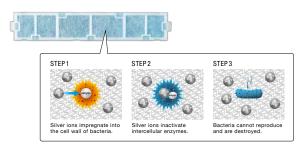


#### Weekly Timer (Introduced in response to market demand)

Temperature settings and On/Off control can be managed over a period of one week using the Weekly Timer. Up to eight setting patterns per calendar day are possible.

#### Silver-ionized Air Purifier Filter

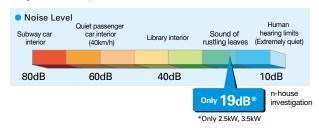
The high performance filter is attached as standard. Captures the bacteria, pollen and other allergens in the air and neutralises them.



#### **Quiet Operation**

The indoor unit noise level is as low as 19dB for MFZ Series, offering a peaceful inside environment.

\* Single connection only



#### Inverter PAM SEER SCOP MFZ-KT SERIES **R32 R32** Indoor Unit **Outdoor Unit** Remote Controller **(** GOOD DESIGN AWARD 2014 25.00 SUZ-M25/35VA SUZ-M50VA Enclosed in \*optional MFZ-KT MFZ-KT25/35/50/60VG SENSETE OF SERVICE OF tor terms Arts ≠ 28.5 to #+ SUZ-M60VA \*optional \*optional

AUTO VANE Silver-ion Air Purifying SWNG Weekly Timer Weekly I save CACO Auto Restart Cooling

| Type       |                            |                                 |        | Inverter Heat Pump          |                             |                               |                               |  |  |  |
|------------|----------------------------|---------------------------------|--------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|--|--|--|
| Indoor Un  | it                         |                                 |        | MFZ-KT25VG                  | MFZ-KT35VG                  | MFZ-KT50VG                    | MFZ-KT60VG                    |  |  |  |
| Outdoor l  | Jnit                       |                                 |        | SUZ-M25VA                   | SUZ-M35VA                   | SUZ-M50VA                     | SUZ-M60VA                     |  |  |  |
| Refrigerar | nt                         |                                 |        | R32 <sup>(*1)</sup>         | R32 <sup>(*1)</sup>         | R32 <sup>(*1)</sup>           | R32 <sup>(*1)</sup>           |  |  |  |
| Power      | Source                     |                                 |        |                             | Outdoor po                  |                               |                               |  |  |  |
| Supply     | Outdoor(V/Phase/Hz)        |                                 |        |                             | 230 / Sir                   | gle / 50                      |                               |  |  |  |
|            | Design load                |                                 | kW     | 2.5                         | 3.5                         | 5.0                           | 6.1                           |  |  |  |
|            | Annual electricity consump | ption (*2)                      | kWh/a  | 134                         | 185                         | 257                           | 343                           |  |  |  |
|            | SEER (*4), (*5)            |                                 |        | 6.5                         | 6.6                         | 6.8                           | 6.2                           |  |  |  |
| Cooling    |                            | Energy efficiency class         |        | A++                         | A++                         | A++                           | A++                           |  |  |  |
|            | Capacity                   | Rated                           | kW     | 2.5                         | 3.5                         | 5.0                           | 6.1                           |  |  |  |
|            |                            | Min-Max                         | kW     | 1.6 - 3.2                   | 0.9 - 3.9                   | 1.2 - 5.6                     | 1.7 - 6.3                     |  |  |  |
|            | Total Input                | Rated                           | kW     | 0.62                        | 1.06                        | 1.55                          | 1.84                          |  |  |  |
|            | Design load                |                                 |        | 2.2                         | 2.6                         | 4.3                           | 4.6                           |  |  |  |
|            | Declared Capacity          | at reference design temperature | kW     | 2.0 (-10°C)                 | 2.3 (-10°C)                 | 3.5 (-10°C)                   | 4.1 (-10°C)                   |  |  |  |
|            |                            | at bivalent temperature         | kW     | 2.0 (-7°C)                  | 2.3 (-7°C)                  | 3.9 (-7°C)                    | 4.1 (-7°C)                    |  |  |  |
|            |                            | at operation limit temperature  | kW     | 2.0 (-10°C)                 | 2.3 (-10°C)                 | 3.5 (-10°C)                   | 4.1 (-10°C)                   |  |  |  |
| Heating    | Back up heating capacity   |                                 | kW     | 0.2                         | 0.3                         | 0.8                           | 0.5                           |  |  |  |
| (Average   | Annual electricity consump | ption <sup>(*2)</sup>           | kWh/a  | 732                         | 825                         | 1423                          | 1568                          |  |  |  |
| Season)    | SCOP (*4), (*5)            |                                 |        | 4.2                         | 4.4                         | 4.2                           | 4.1                           |  |  |  |
|            |                            | Energy efficiency class         |        | A <sup>+</sup>              | A <sup>+</sup>              | A <sup>+</sup>                | A <sup>+</sup>                |  |  |  |
|            | Capacity                   | Rated                           | kW     | 3.4                         | 4.3                         | 6.0                           | 7.0                           |  |  |  |
|            |                            | Min-Max                         | kW     | 1.3 - 4.2                   | 1.1 - 5.0                   | 1.5 - 7.2                     | 1.6 - 8.0                     |  |  |  |
|            | Total Input                | Rated                           | kW     | 0.91                        | 1.26                        | 1.86                          | 2.18                          |  |  |  |
| Operatin   | g Current (Max)            |                                 | Α      | 7.0                         | 8.7                         | 14.0                          | 15.4                          |  |  |  |
|            | Input                      | Rated                           | kW     | 0.020 / 0.024               | 0.020 / 0.024               | 0.037 / 0.052                 | 0.063 / 0.059                 |  |  |  |
|            | Operating Current(Max)     |                                 |        | 0.20                        | 0.20                        | 0.45                          | 0.55                          |  |  |  |
|            | Dimensions                 | H*W*D                           | mm     | 600-750-215                 | 600-750-215                 | 600-750-215                   | 600-750-215                   |  |  |  |
| Indoor     | Weight                     |                                 | kg     | 14.5                        | 14.5                        | 14.5                          | 15.0                          |  |  |  |
| Unit       | Air Volume                 | Cooling                         | m3/min | 3.9 - 4.8 - 6.5 - 7.8 - 8.9 | 3.9 - 4.8 - 6.5 - 7.8 - 8.9 | 5.6 - 6.7 - 8.6 - 10.4 - 12.3 | 5.6 - 8.0 - 9.6 - 12.3 - 15.0 |  |  |  |
|            | (SLo-Lo-Mid-Hi-SHi (*3))   | Heating                         | m3/min | 3.5 - 4.0 - 5.6 - 7.3 - 9.7 | 3.5 - 4.0 - 5.6 - 7.3 - 9.7 | 6.0 - 7.7 - 9.4 - 11.6 - 14.0 | 6.0 - 7.7 - 9.7 - 12.5 - 14.6 |  |  |  |
|            | Sound Level (SPL)          | Cooling                         | dB(A)  | 19 - 24 - 31 - 37 - 41      | 19 - 24 - 31 - 37 - 41      | 28 - 32 - 37 - 42 - 48        | 28 - 36 - 40 - 46 - 53        |  |  |  |
|            | (SLo-Lo-Mid-Hi-SHi (*3))   | Heating                         | dB(A)  | 19 - 23 - 30 - 37 - 44      | 19 - 23 - 30 - 37 - 44      | 29 - 35 - 40 - 44 - 49        | 29 - 35 - 41 - 47 - 51        |  |  |  |
|            | Sound Level (PWL)          | Cooling                         | dB(A)  | 54                          | 54                          | 60                            | 65                            |  |  |  |
|            | Dimensions                 | H*W*D                           | mm     | 550-800-285                 | 550-800-285                 | 714-800-285                   | 880-840-300                   |  |  |  |
|            | Weight                     |                                 | kg     | 30                          | 35                          | 41                            | 54                            |  |  |  |
|            | Air Volume                 | Cooling                         | m3/min | 36.3                        | 34.3                        | 45.8                          | 50.1                          |  |  |  |
| Outdoor    |                            | Heating                         | m3/min | 34.6                        | 32.7                        | 43.7                          | 50.1                          |  |  |  |
| Unit       | Sound Level (SPL)          | Cooling                         | dB(A)  | 45                          | 48                          | 48                            | 49                            |  |  |  |
|            |                            | Heating                         | dB(A)  | 46                          | 48                          | 49                            | 51                            |  |  |  |
|            | Sound Level (PWL)          | Cooling                         | dB(A)  | 59                          | 59                          | 64                            | 65                            |  |  |  |
|            | Operating Current(Max)     |                                 | Α      | 7                           | 9                           | 14                            | 15                            |  |  |  |
|            | Breaker Size               | 1                               | Α      | 10                          | 10                          | 16                            | 16                            |  |  |  |
| Ext.       | Diameter                   | Liquid/Gas                      | mm     | 6.35 / 9.52                 | 6.35 / 9.52                 | 6.35 / 12.7                   | 6.35 / 15.88                  |  |  |  |
| Piping     | Max.Length                 | Out-In                          | m      | 20                          | 20                          | 30                            | 30                            |  |  |  |
|            | Max.Height                 | Out-In                          | m      | 12                          | 12                          | 30                            | 30                            |  |  |  |
|            | ed Operating Range         | Cooling                         | °C     | -10 ~ +46                   | -10 ~ +46                   | -15 ~ +46                     | -15 ~ +46                     |  |  |  |
| [Outdoor]  |                            | Heating                         | °C     | -10 ~ +24                   | -10 ~ +24                   | -10 ~ +24                     | -10 ~ +24                     |  |  |  |

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or Gasssemble the product yourself and always ask a professional. The GWP of R41OA is 2088 in the IPCC 4th Assessment Report.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) SHz Super High

(\*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(\*5) SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No.206/2012.

MXZ connection Flare connection Self Self Recall



Introducing a new type of ceiling cassette for the Multi-Split Series with streamed interior dimensions and a sharp, sleek appearance.



#### Slim Design

Industry leading slim body realized a simple design with linear beauty.



#### **Ceiling Mounted**

Installing the ceiling-mounted MLZ Series unit in a room creates a more spacious feel that enhances room comfort. This overhead format is also an excellent solution when lighting equipment is installed at the centre of the room and fixtures such as book shelves are mounted on wall surfaces.



#### Slim Body

The new units are designed with a slim body (only 185mm high), ensuring easy installation even when low ceiling cavities limit installation space. The need for ceiling cavity service space is also eliminated, further reducing the dimensions required for installation.



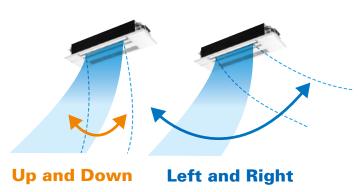
#### Set Airflow According to Ceiling Height

Dual-level airflow selection is engineered to accommodate specific ceiling heights. This is a key feature for adjusting airflow effectively when it is either too strong or too weak due to being mismatched with the height of the ceiling.

|              | 25   | 35   | 50   |
|--------------|------|------|------|
| Standard     | 2.4m | 2.4m | 2.4m |
| High ceiling | 2.7m | 2.7m | 2.7m |

#### **Auto Vane Control**

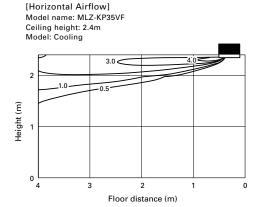
Outlet vanes can be moved left and right, and up and down using the remote controller. This improved airflow control feature solves the problem of drafts.



\*Only available when Econo Cool is set.

Horizontal Airflow

The new airflow control completely eliminates that uncomfortable drafty-feeling with the introduction of a horizontal airflow that spreads across the ceiling. The ideal airflow for offices and restaurants.



## Weekly Built-in Weekly Timer Function

Easily set desired temperatures and operation ON/OFF times to match lifestyle patterns. Reduce wasted energy consumption by using the timer to prevent forgetting to turn off the unit and eliminate temperature setting adjustments.

#### **■** Example Operation Pattern (Winter/Heating mode)

|                         | Mo   | n.      | Tues.              | Wed.                     | Thurs.                          | Fri.                    | Sat.   | Sun.                      |  |
|-------------------------|------|---------|--------------------|--------------------------|---------------------------------|-------------------------|--|---------------------------|--|
| 5:00                    | ON 2 | 20°C    | ON 20°C            | ON 20°C                  | ON 20°C                         | ON 20°C                 | ON 20°C  | ON 20°C                   |  |
|                         |      |         |                    | Automatically change     | s to high-power opera           | tion at wake-up time    |  |                           |  |
| 8:00                    |      |         |                    |                          |                                 |                         |  |                           |  |
| 10:00                   |      |         |                    |                          |                                 |                         |  |                           |  |
| 15:00                   | OF   | OFF OFF |                    | OFF                      | OFF                             | OFF                     | ON 18°C  | ON 18°C                   |  |
|                         |      |         | Automatic          | ally turned off during w | ly turned off during work hours |                         |  | e is set lower            |  |
| 14:00                   |      |         |                    |                          |                                 |                         |  |                           |  |
| 1P:00                   |      |         |                    |                          |                                 |                         |  |                           |  |
| 18:00                   | ON 2 | 22°C    | ON 22°C            | ON 22°C                  | ON 22°C                         | ON 22°C                 | ON 22°C  | ON 22°C                   |  |
| 50:00                   |      |         | Automatically turn | ns on, synchronized wi   | th arrival at home              |                         | Automatically raises temperature setting to match time when outside-air temperature is low |                           |  |
| 55:00                   |      |         | ,                  | , . ,                    |                                 |                         | match time when outsid   | de-air temperature is low |  |
| (during sleeping hours) | ON 1 | 18°C    | ON 18°C            | ON 18°C                  | ON 18°C                         | ON 18°C                 | ON 10°C  | ON 10°C                   |  |
|                         |      |         | Automa             | tically lowers tempera   | ture at bedtime for en          | ergy-saving operation a | it night   |                           |  |
|                         |      |         |                    |                          |                                 |                         |  |                           |  |

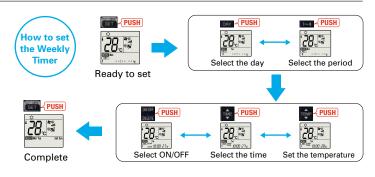
Settings

Pattern Settings: Input up to four settings for each day

**Settings:** •Start/Stop operation •Temperature setting \*The operation mode cannot be set.

#### ■ Easy set-up using dedicated buttons





- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired patterns into the remote controller memory. Pushing the "CANCEL"
- button will end the set-up process without sending the operation patterns to the indoor unit.

  It takes a few seconds to transmit the Weekly Timer operation patterns to the indoor unit. Please continue to point the remote controller at the indoor unit until all data has been sent.

## Easy Installation

#### **Industry leading Slim Body**

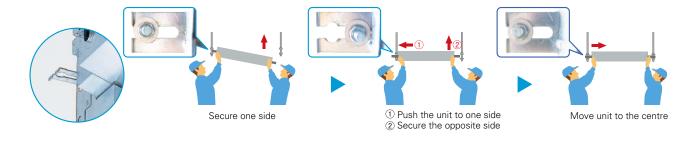
Inovative size which enables to fold the refrigerant piping above the unit



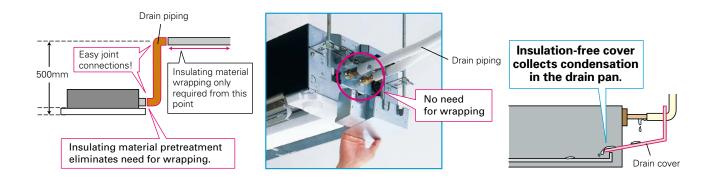
Dimension: 185(H)×1102(W)×360(D)mm

#### Temporary hanging hook

Work efficiency has improved during installation.

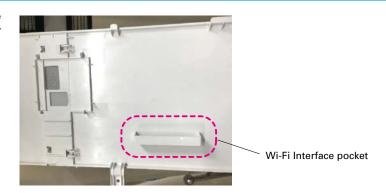


#### **Drain Piping Supporters + Drain Cover**



#### Wi-Fi Interface Installation (Optional)

The indoor unit panel is equipped with a Wi-Fi Interface pocket, contributing to the beautiful appearance, easy installation, and maintenance.



## MLZ-KP SERIES



Remote Controller



#### **Outdoor Unit**



SUZ-M25/35VA



25.0°c

MLZ-KP

\*optional



MLP-444W



































































| Indoor U        | nit                               |                                 |        | MLZ-KP25VF      | MLZ-KP35VF           | MLZ-KP50VF        |
|-----------------|-----------------------------------|---------------------------------|--------|-----------------|----------------------|-------------------|
| Outdoor         | Unit                              |                                 |        | SUZ-M25VA       | SUZ-M35VA            | SUZ-M50VA         |
| Refrigera       | nt                                |                                 |        |                 | R32 <sup>(*1)</sup>  | ·                 |
| Power           | Source                            |                                 |        |                 | Outdoor Power supply |                   |
| Supply          | Outdoor (V/Ph                     | ase / Hz )                      |        |                 | 230V / Single / 50Hz |                   |
|                 | Design load                       |                                 | kW     | 2.5             | 3.5                  | 5.0               |
|                 | Annual electricity                | consumption (*2)                | kWh/a  | 141             | 175                  | 260               |
|                 | SEER (*4), (*5)                   |                                 |        | 6.2             | 7.0                  | 6.7               |
| Cooling         |                                   | Energy efficiency class         | 5      | A++             | A++                  | A++               |
|                 |                                   | Rated                           | kW     | 2.5             | 3.5                  | 5.0               |
|                 | Capacity                          | Min-Max                         | kW     | 1.4 - 3.2       | 0.8 - 3.9            | 1.7 - 5.6         |
|                 | Total Input                       | Rated                           | kW     | 0.59            | 0.94                 | 1.38              |
|                 | Design load                       |                                 | kW     | 2.2             | 2.6                  | 4.3               |
|                 |                                   | at reference design temperature | kW     | 2.0 (-10°C)     | 2.3 (-10°C)          | 3.8 (-10°C)       |
|                 | Declared                          | at bivalent temperature         | kW     | 2.0 (-7°C)      | 2.3 (-7°C)           | 3.8 (-7°C)        |
|                 | Capacity                          | at operation limit temperature  | kW     | 2.0 (-10°C)     | 2.3 (-10°C)          | 3.8 (-10°C)       |
| Heating         | Back up heating                   |                                 | kW     | 0.2             | 0.3                  | 0.5               |
| Average         | Annual electricity                |                                 | kWh/a  | 697             | 791                  | 1397              |
| Season)         | SCOP (*4), (*5)                   |                                 |        | 4.4             | 4.6                  | 4.3               |
|                 |                                   | Energy efficiency class         | 5      | A+              | A++                  | A <sup>+</sup>    |
|                 |                                   | Rated                           | kW     | 3.2             | 4.1                  | 6.0               |
|                 | Capacity                          | Min-Max                         | kW     | 1.4 - 4.2       | 1.1 - 4.9            | 1.7 - 7.2         |
|                 | Total Input                       | Rated                           | kW     | 0.80            | 1.10                 | 1.86              |
| Operatir        | g Current (Max)                   |                                 | А      | 7.2             | 8.9                  | 13.9              |
| •               | Input                             | Input Rated kV                  |        | 0.04            | 0.04                 | 0.04              |
|                 | Operating Curre                   | nt(Max)                         | Α      | 0.40            | 0.40                 | 0.40              |
|                 | Dimensions                        | Dimensions H*W*D                |        | 185-1102-360    | 185-1102-360         | 185-1102-360      |
|                 | Weight                            | Weight                          |        | 15.5            | 15.5                 | 15.5              |
| Indoor<br>Unit  | Air Volume (SLo-Lo-               | Air Volume (SLo-Lo- Cooling     |        | 6.0-7.2-8.0-8.8 | 6.0-7.3-8.4-9.4      | 6.0-8.3-9.8-11.4  |
| Ollit           | Mid-Hi <sup>(*3)</sup> (Dry/Wet)) | Heating                         | m³/min | 6.0-7.0-8.2-9.2 | 6.0-7.7-8.8-9.9      | 6.0-8.8-10.3-11.8 |
|                 | Sound Level (SPL)                 | Cooling                         | dB(A)  | 27-31-34-38     | 27-32-36-40          | 29-36-41-47       |
|                 | (SLo-Lo-Mid-Hi <sup>(*3)</sup> )  | Heating                         | dB(A)  | 26-27-34-37     | 29-32-36-40          | 26-37-42-48       |
|                 | Sound Level (PWL)                 | Cooling                         | dB(A)  | 52              | 53                   | 59                |
|                 | Dimensions                        | H*W*D                           | mm     | 24-1200-424     | 24-1200-424          | 24-1200-424       |
| Panel           | Weight                            |                                 | kg     | 3.5             | 3.5                  | 3.5               |
|                 | Dimensions                        | H*W*D                           | mm     | 550-800-285     | 550-800-285          | 550-800-285       |
|                 | Weight                            |                                 | kg     | 30              | 35                   | 41                |
|                 | Air Values                        | Cooling                         | m³/min | 36.3            | 34.3                 | 45.8              |
|                 | Air Volume                        | Heating                         | m³/min | 34.6            | 32.7                 | 43.7              |
| Outdoor<br>Unit |                                   | Cooling                         | dB(A)  | 45              | 48                   | 48                |
| Ollit           | Sound Level (SPL)                 | Heating                         | dB(A)  | 46              | 48                   | 49                |
|                 | Sound Level (PWL)                 | Cooling                         | dB(A)  | 59              | 59                   | 64                |
|                 | Operating Curre                   | nt (Max)                        | A      | 6.8             | 8.5                  | 13.5              |
|                 | Breaker Size                      |                                 | А      | 10              | 10                   | 20                |
| _               | Diameter                          | Liquid/Gas                      | mm     | 6.35/9.52       | 6.35/9.52            | 6.35/12.7         |
| Ext.            | Max.Length                        | Out-In                          | m      | 20              | 20                   | 30                |
| Piping          | Max.Height                        | Out-In                          | m      | 12              | 12                   | 30                |
| pg              |                                   |                                 |        |                 |                      | - +               |
|                 | eed Operating                     | Cooling                         | °C     | -10~+46         | -10~+46              | -15~+46           |

<sup>(\*1)</sup> Refirigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or Grobal seasemble the product yourself or product yourself and always ask a professional. The GWP of R41Oa is 2088 in the IPCO 4th Assessment Report.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SHI: Super High

(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(5) SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No.206/2012.

## **Specification on Warmer/Colder Condition**

| Туре               |                             |   |       |             |                |             | Inverter Heat Pump | )           |              |             |
|--------------------|-----------------------------|---|-------|-------------|----------------|-------------|--------------------|-------------|--------------|-------------|
| Indoor Ur          | nit                         | •   |       | MSZ-LI      | N25VG2         | MSZ-LI      | N35VG2             | MSZ-L       | N50VG2       | MSZ-LN60VG2 |
| Outdoor I          | Jnit                        |   |       | MUZ-LN25VG2 | MUZ-LN25VGHZ2  | MUZ-LN35VG2 | MUZ-LN35VGHZ2      | MUZ-LN50VG2 | MUZ-LN50VGHZ | MUZ-LN60VG  |
| Refrigera          | nt                          |   |       |             |                |             | R32 (*3)           |             |              |             |
|                    | Design load                 |   |       | 2.5         | 2.5            | 3.5         | 3.5                | 5           | 5.0          | 6.1         |
| Cooling            | Annual electricity          | Annual electricity consumption (*2) kWh/a |       |             | 83             | 129         | 130                | 205         | 230          | 285         |
|                    | SEER                        |   |       | 10.5        | 10.5           | 9.5         | 9.4                | 8.5         | 7.6          | 7.5         |
|                    |                             | Energy efficiency class                   |       | A+++        | A+++           | A+++        | A+++               | A+++        | A++          | A++         |
|                    | Design load                 |   | kW    | 1.7 (2°C)   | 1.8 (2°C)      | 2.0 (2°C)   | 2.2 (2°C)          | 2.5 (2°C)   | 3.3 (2°C)    | 3.3 (2°C)   |
|                    | Declared<br>Capacity        | at reference design temperature           | kW    | 1.7 (2°C)   | 1.8 (2°C)      | 2.0 (2°C)   | 2.2 (2°C)          | 2.5 (2°C)   | 3.3 (2°C)    | 3.3 (2°C)   |
|                    |                             | at bivalent temperature                   | kW    | 1.7 (2°C)   | 1.8 (2°C)      | 2.0 (2°C)   | 2.2 (2°C)          | 2.5 (2°C)   | 3.3 (2°C)    | 3.3 (2°C)   |
| Heating<br>(Warmer |                             | at operation limit temperature            | kW    | 2.5 (-15°C) | 2.3 (-25°C)    | 3.2 (-15°C) | 3.1 (-25°C)        | 4.2 (-15°C) | 4.7 (-25°C)  | 6.0 (-15°C) |
| Season)            | Back up heating capacity kW |   |       | 0.0 (2°C)   | 0.0 (2°C)      | 0.0 (2°C)   | 0.0 (2°C)          | 0.0 (2°C)   | 0.0(2°C)     | 0.0 (2°C)   |
| ,                  | Annual electricity          | Annual electricity consumption (*2) kWh/a |       |             | 382            | 431         | 467                | 602         | 779          | 779         |
|                    | SCOP                        |   |       | 6.4         | 6.6            | 6.5         | 6.5                | 5.8         | 5.9          | 5.9         |
|                    |                             | <b>Energy efficiency class</b>            |       | A+++        | A+++           | A+++        | A+++               | A+++        | A+++         | A+++        |
|                    | Design load                 |   | kW    | -           | 4.7 (-22°C)    | -           | 5.9 (-22°C)        | -           | 8.8 (-22°C)  | -           |
|                    | Declared                    | at reference design temperature           | kW    | _           | 2.6 (-22°C)    | _           | 3.4 (-22°C)        | -           | 5.1 (-22°C)  | -           |
|                    | Capacity                    | at bivalent temperature                   | kW    | _           | 3.2 (-10°C)    | _           | 4.0 (-10°C)        | _           | 6.0 (-10°C)  | _           |
| Heating<br>(Colder | Capacity                    | at operation limit temperature            | kW    | _           | 2.3 (-25°C)    | _           | 3.1 (-25°C)        | _           | 4.7 (-25°C)  | _           |
| Season)            | Back up heating             | capacity                                  | kW    | _           | 2.1 (-22°C)    | _           | 2.5 (-22°C)        | _           | 3.7 (-22°C)  | _           |
| 2220011)           | Annual electricity          | consumption (*2)                          | kWh/a | _           | 2425           | _           | 3075               | _           | 5340         | _           |
|                    | SCOP                        |   |       | _           | 4.0            | _           | 4.0                | _           | 3.4          | _           |
|                    |                             | Energy efficiency class                   |       | -           | A <sup>+</sup> | _           | A <sup>+</sup>     | _           | A            | _           |

| Туре               |                                     |                                 |       |              | Inverter Heat Pump |                 |  |  |  |  |
|--------------------|-------------------------------------|---------------------------------|-------|--------------|--------------------|-----------------|--|--|--|--|
| Indoor Ur          | nit                                 |                                 |       | MSZ-FT25VG   | MSZ-FT35VG         | MSZ-FT50VG      |  |  |  |  |
| Outdoor            | Unit                                |                                 |       | MUZ-FT25VGHZ | MUZ-FT35VGHZ       | MUZ-FT50VGHZ    |  |  |  |  |
| Refrigera          | nt                                  |                                 |       |              | R32 (*3)           |                 |  |  |  |  |
|                    | Design load                         |                                 | kW    | 2.5          | 3.5                | 5.0             |  |  |  |  |
| Cooling            | Annual electricity                  | consumption (*2)                | kWh/a | 101          | 142                | 243             |  |  |  |  |
|                    | SEER                                |                                 |       | 8.6          | 8.6                | 7.2             |  |  |  |  |
|                    |                                     | Energy efficiency class         |       | A+++         | A+++               | A <sup>++</sup> |  |  |  |  |
|                    | Design load                         |                                 | kW    | 1.8 (2°C)    | 2.2 (2°C)          | 2.7 (2°C)       |  |  |  |  |
|                    | r                                   | at reference design temperature | kW    | 1.8 (2°C)    | 2.2 (2°C)          | 2.7 (2°C)       |  |  |  |  |
|                    |                                     | at bivalent temperature         | kW    | 1.8 (2°C)    | 2.2 (2°C)          | 2.7 (2°C)       |  |  |  |  |
| Heating<br>(Warmer |                                     | at operation limit temperature  | kW    | 3.0 (-25°C)  | 3.4 (-25°C)        | 3.6 (-25°C)     |  |  |  |  |
| Season)            | Back up heating capacity            |                                 |       | 0.0 (2°C)    | 0.0 (2°C)          | 0.0 (2°C)       |  |  |  |  |
| ,                  | Annual electricity consumption (*2) |                                 |       | 432          | 527                | 684             |  |  |  |  |
|                    | SCOP                                |                                 |       | 5.8          | 5.8                | 5.5             |  |  |  |  |
|                    |                                     | Energy efficiency class         |       | A+++         | A+++               | A+++            |  |  |  |  |
|                    | Design load                         |                                 | kW    | 4.7 (-22°C)  | 5.9 (-22°C)        | 7.4 (-22°C)     |  |  |  |  |
|                    |                                     | at reference design temperature | kW    | 3.1 (-22°C)  | 3.7 (-22°C)        | 4.0 (-22°C)     |  |  |  |  |
|                    | Declared<br>Capacity                | at bivalent temperature         | kW    | 3.2 (-10°C)  | 4.0 (-10°C)        | 5.0 (-10°C)     |  |  |  |  |
| Heating<br>(Colder | Capacity                            | at operation limit temperature  | kW    | 3.0 (-25°C)  | 3.4 (-25°C)        | 3.6 (-25°C)     |  |  |  |  |
| Season)            | Back up heating                     | capacity                        | kW    | 1.6 (-22°C)  | 2.2 (-22°C)        | 3.4 (-22°C)     |  |  |  |  |
| Season)            | Annual electricity                  | consumption (*2)                | kWh/a | 2766         | 3453               | 4707            |  |  |  |  |
|                    | SCOP                                |                                 |       | 3.5          | 3.5                | 3.3             |  |  |  |  |
|                    |                                     | Energy efficiency class         |       | Α            | A                  | В               |  |  |  |  |

| Time               |   |                                 |       |              |                    |             |             | Investor H  | eat Pump    |             |               |             |             |                 |                |
|--------------------|---|---------------------------------|-------|--------------|--------------------|-------------|-------------|-------------|-------------|-------------|---------------|-------------|-------------|-----------------|----------------|
| Туре               | .,  |                                 |       | 1407 AD45140 | 1407 AD001/0       | 1407.4      | DOE! (O     | 1407.4      |             |             | D 401 (O      | 1407.4      | DEOL (O     | 1407 AD001/0/10 | MOZ ADZ41/0/10 |
| Indoor Ur          |   |                                 |       |              | MSZ-AP20VG         |             |             |             |             |             | MSZ-AP60VG(K) | ( )         |             |                 |                |
| Outdoor I          | Outdoor Unit                              |                                 |       |              | MUZ-AP20VG         | MUZ-AP25VG  | MUZ-AP25VGH | MUZ-AP35VG  | MUZ-AP35VGH | MUZ-AP42VG  | MUZ-AP42VGH   | MUZ-AP50VG  | MUZ-AP50VGH | MUZ-AP60VG      | MUZ-AP71VG     |
| Refrigera          | Refrigerant                               |                                 |       |              | R32 <sup>(5)</sup> |             |             |             |             |             |               |             |             |                 |                |
|                    | Design load kW                            |                                 |       | 1.5          | 2.0                | 2.5         | 2.5         | 3.5         | 3.5         | 4.2         | 4.2           | 5.0         | 5.0         | 6.1             | 7.1            |
| Cooling            | Annual electricity consumption (*2) kWh/a |                                 | 72    | 81           | 116                | 116         | 171         | 171         | 196         | 196         | 246           | 246         | 288         | 345             |                |
|                    | SEER                                      |                                 |       | 7.2          | 8.6                | 7.6         | 7.6         | 7.2         | 7.2         | 7.5         | 7.5           | 7.2         | 7.2         | 7.4             | 7.2            |
|                    |   | Energy efficiency class         |       | A++          | A+++               | A++         | A++         | A++         | A++         | A++         | A++           | A++         | A++         | A++             | A++            |
|                    | Design load                               |                                 | kW    | 0.9 (2°C)    | 1.3 (2°C)          | 1.3 (2°C)   | 1.3 (2°C)   | 1.6 (2°C)   | 1.6 (2°C)   | 2.1 (2°C)   | 2.1 (2°C)     | 2.3 (2°C)   | 2.3 (2°C)   | 2.5 (2°C)       | 3.7 (2°C)      |
|                    |   | at reference design temperature | kW    | 0.9 (2°C)    | 1.3 (2°C)          | 1.3 (2°C)   | 1.3 (2°C)   | 1.6 (2°C)   | 1.6 (2°C)   | 2.1 (2°C)   | 2.1 (2°C)     | 2.3 (2°C)   | 2.3 (2°C)   | 2.5 (2°C)       | 3.7 (2°C)      |
|                    | Declared<br>Capacity                      | at bivalent temperature         | kW    | 0.9 (2°C)    | 1.3 (2°C)          | 1.3 (2°C)   | 1.3 (2°C)   | 1.6 (2°C)   | 1.6 (2°C)   | 2.1 (2°C)   | 2.1 (2°C)     | 2.3 (2°C)   | 2.3 (2°C)   | 2.5 (2°C)       | 3.7 (2°C)      |
| Heating<br>(Warmer | Capacity                                  | at operation limit temperature  | kW    | 1.6 (-15°C)  | 2.2 (-15°C)        | 2.0 (-15°C) | 1.6 (-20°C) | 2.2 (-15°C) | 1.6 (-20°C) | 3.4 (-15°C) | 2.2 (-20°C)   | 3.4 (-15°C) | 2.3 (-20°C) | 3.7 (-15°C)     | 5.4 (-15°C)    |
| Season)            | Back up heating                           | capacity                        | kW    | 0.0 (2°C)    | 0.0 (2°C)          | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)     | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)       | 0.0 (2°C)      |
| Season             | Annual electricity                        | consumption (*2)                | kWh/a | 265          | 350                | 337         | 337         | 923 / 418   | 417         | 507         | 507           | 563         | 563         | 627             | 891            |
|                    | SCOP                                      |                                 |       | 4.7          | 5.2                | 5.4         | 5.4         | 5.4         | 5.4         | 5.8         | 5.8           | 5.7         | 5.7         | 5.5             | 5.8            |
|                    |   | Energy efficiency class         |       | A++          | A+++               | A+++        | A+++        | A+++        | A+++        | A+++        | A+++          | A+++        | A+++        | A+++            | A+++           |

| Туре               |   |   |       |             |             | Inverter H  | leat Pump   |             |             |
|--------------------|---|---|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| Indoor Ur          | nit                                       |   |       | MSZ-E       | F25VG       | MSZ-E       | F35VG       | MSZ-EF42VG  | MSZ-EF50VG  |
| Outdoor I          | Jnit                                      |   |       | MUZ-EF25VG  | MUZ-EF25VGH | MUZ-EF35VG  | MUZ-EF35VGH | MUZ-EF42VG  | MUZ-EF50VG  |
| Refrigera          | nt  |   |       |             |             | R3          | 32(*3)      |             |             |
|                    | Design load kW                            |   |       | 2.5         | 2.5         | 3.5         | 3.5         | 4.2         | 5.0         |
| Cooling            | Annual electricity consumption (*2) kWh/a |   | kWh/a | 96          | 96          | 139         | 139         | 186         | 233         |
| 0009               | SEER                                      |   |       | 9.1         | 9.1         | 8.8         | 8.8         | 7.9         | 7.5         |
|                    | Energy efficiency class                   |   | A+++  | A+++        | A+++        | A+++        | A++         | A++         |             |
|                    | Design load kW                            |   |       | 1.3 (2°C)   | 1.3 (2°C)   | 1.6 (2°C)   | 1.6 (2°C)   | 2.1 (2°C)   | 2.3 (2°C)   |
|                    |   | at reference design temperature           | kW    | 1.3 (2°C)   | 1.3 (2°C)   | 1.6 (2°C)   | 1.6 (2°C)   | 2.1 (2°C)   | 2.3 (2°C)   |
|                    | Declared<br>Capacity                      | at bivalent temperature                   | kW    | 1.3 (2°C)   | 1.3 (2°C)   | 1.6 (2°C)   | 1.6 (2°C)   | 2.1 (2°C)   | 2.3 (2°C)   |
| Heating<br>(Warmer | Capacity                                  | at operation limit temperature            | kW    | 2.0 (-15°C) | 2.0 (-15°C) | 2.4 (-15°C) | 2.4 (-15°C) | 3.4 (-15°C) | 3.5 (-15°C) |
| (warmer<br>Season) | Back up heatin                            | g capacity                                | kW    | 0.0 (2°C)   |
| ocason,            | Annual electricity                        | Annual electricity consumption (*2) kWh/a |       | 311         | 311         | 398         | 398         | 489         | 595         |
|                    | SCOP                                      |   |       | 5.9         | 5.9         | 5.6         | 5.6         | 6.0         | 5.4         |
|                    |   | Energy efficiency class                   |       | A+++        | A+++        | A+++        | A+++        | A+++        | A+++        |

| Туре               |                                     |   |    |             | Inverter H  | eat Pump    |             |
|--------------------|-------------------------------------|---|----|-------------|-------------|-------------|-------------|
| Indoor Ur          | nit                                 |   |    | MSZ-BT20VG  | MSZ-BT25VG  | MSZ-BT35VG  | MSZ-BT50VG  |
| Outdoor I          | Jnit                                |   |    | MUZ-BT20VG  | MUZ-BT25VG  | MUZ-BT35VG  | MUZ-BT50VG  |
| Refrigera          | nt                                  |   |    |             | R3          | 2 (*3)      |             |
|                    | Design load                         |   |    | 2.0         | 2.5         | 3.5         | 5.0         |
| Cooling            | Annual electricity consumption (*2) |   |    | 86          | 108         | 180         | 265         |
| 0009               | SEER                                |   |    | 8.1         | 8.1         | 6.8         | 6.6         |
|                    |                                     | Energy efficiency class                   |    | A++         | A++         | A++         | A++         |
|                    | Design load                         |   | kW | 0.9 (2°C)   | 1.1 (2°C)   | 1.3 (2°C)   | 2.1 (2°C)   |
|                    |                                     | At reference design temperature           | kW | 0.9 (2°C)   | 1.1 (2°C)   | 1.3 (2°C)   | 2.1 (2°C)   |
|                    | Declared<br>Capacity                | at bivalent temperature                   | kW | 0.9(2°C)    | 1.1 (2°C)   | 1.3 (2°C)   | 2.1 (2°C)   |
| Heating<br>(Warmer | Сарасну                             | at operation limit temperature            | kW | 1.3 (-15°C) | 1.7 (-15°C) | 2.1 (-15°C) | 3.4 (-15°C) |
| (warmer<br>Season) | Back up heating                     | capacity                                  | kW | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)   |
| 0000011,           | Annual electricity                  | Annual electricity consumption (*2) kWh/a |    |             | 268         | 304         | 543         |
|                    | SCOP (*4)                           | SCOP (*4)                                 |    | 5.3         | 5.7         | 5.9         | 5.4         |
|                    | Energy efficiency class             |   |    | A+++        | A+++        | A+++        | A+++        |

| Туре               |   |                                 |                         |                    |             | Inverter F  | leat Pump   |             |             |  |  |
|--------------------|---|---------------------------------|-------------------------|--------------------|-------------|-------------|-------------|-------------|-------------|--|--|
| Indoor Ur          | nit                                       |                                 |                         | MSZ-HR25VF         | MSZ-HR35VF  | MSZ-HR42VF  | MSZ-HR50VF  | MSZ-HR60VF  | MSZ-HR71VF  |  |  |
| Outdoor I          | Jnit                                      |                                 |                         | MUZ-HR25VF         | MUZ-HR35VF  | MUZ-HR42VF  | MUZ-HR50VF  | MUZ-HR60VF  | MUZ-HR71VF  |  |  |
| Refrigera          | nt  |                                 |                         | R32 <sup>(3)</sup> |             |             |             |             |             |  |  |
|                    | Design load kW                            |                                 |                         | 2.5                | 3.4         | 4.2         | 5.0         | 6.1         | 7.1         |  |  |
| Cooling            | Annual electricity                        | consumption (*2)                | kWh/a                   | 141                | 191         | 226         | 269         | 296         | 355         |  |  |
|                    | SEER                                      |                                 |                         | 6.2                | 6.2         | 6.5         | 6.5         | 7.2         | 7.0         |  |  |
|                    |   | Energy efficiency class         | Energy efficiency class |                    | A++         | A++         | A++         | A++         | A++         |  |  |
|                    | Design load                               |                                 | kW                      | 1.1 (2°C)          | 1.3 (2°C)   | 1.6 (2°C)   | 2.1 (2°C)   | 2.5 (2°C)   | 3.0 (2°C)   |  |  |
|                    |   | at reference design temperature | kW                      | 1.1 (2°C)          | 1.3 (2°C)   | 1.6 (2°C)   | 2.1 (2°C)   | 2.5 (2°C)   | 3.0 (2°C)   |  |  |
|                    | Declared<br>Capacity                      | at bivalent temperature         | kW                      | 1.1 (2°C)          | 1.3 (2°C)   | 1.6 (2°C)   | 2.1 (2°C)   | 2.5 (2°C)   | 3.0 (2°C)   |  |  |
| Heating<br>(Warmer | Сарасну                                   | at operation limit temperature  | kW                      | 1.9 (-10°C)        | 2.4 (-10°C) | 2.9 (-10°C) | 3.8 (-10°C) | 4.6 (-10°C) | 5.4 (-10°C) |  |  |
| Season)            | Back up heating capacity kW               |                                 | kW                      | 0.0 (2°C)          | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)   |  |  |
| ,                  | Annual electricity consumption (*2) kWh/a |                                 | kWh/a                   | 289                | 344         | 427         | 558         | 640         | 802         |  |  |
|                    | SCOP                                      | SCOP                            |                         |                    | 5.2         | 5.2         | 5.2         | 5.4         | 5.2         |  |  |
|                    |   | Energy efficiency class         |                         | A+++               | A+++        | A+++        | A+++        | A+++        | A+++        |  |  |

| Туре               |   |                                 |       |             |              | Inverter F  | Inverter Heat Pump |             |              |  |  |  |  |  |
|--------------------|---|---------------------------------|-------|-------------|--------------|-------------|--------------------|-------------|--------------|--|--|--|--|--|
| Indoor Ur          | nit                                       |                                 |       | MSZ-FI      | H25VE2       | MSZ-FH35VE2 |                    | MSZ-FH50VE2 |              |  |  |  |  |  |
| Outdoor I          | Unit                                      |                                 |       | MUZ-FH25VE  | MUZ-FH25VEHZ | MUZ-FH35VE  | MUZ-FH35VEHZ       | MUZ-FH50VE  | MUZ-FH50VEHZ |  |  |  |  |  |
| Refrigera          | nt  |                                 |       |             |              | R41         | OA (*1)            |             |              |  |  |  |  |  |
|                    | Design load kW                            |                                 |       | 2.5         | 2.5          | 3.5         | 3.5                | 5.0         | 5.0          |  |  |  |  |  |
| Cooling            | Annual electricity consumption (*2) kWh/a |                                 | 96    | 96          | 138          | 138         | 244                | 244         |              |  |  |  |  |  |
| 0009               | SEER                                      |                                 |       | 9.1         | 9.1          | 8.9         | 8.9                | 7.2         | 7.2          |  |  |  |  |  |
|                    |   | Energy efficiency class         |       | A+++        | A+++         | A+++        | A+++               | A++         | A++          |  |  |  |  |  |
|                    | Design load kW                            |                                 |       | 1.7 (2°C)   | 1.8 (2°C)    | 2.0 (2°C)   | 2.2 (2°C)          | 2.5 (2°C)   | 3.3 (2°C)    |  |  |  |  |  |
|                    |   | at reference design temperature | kW    | 1.7 (2°C)   | 1.8 (2°C)    | 2.0 (2°C)   | 2.2 (2°C)          | 2.5 (2°C)   | 3.3 (2°C)    |  |  |  |  |  |
|                    | Declared<br>Capacity                      | at bivalent temperature         | kW    | 1.7 (2°C)   | 1.8 (2°C)    | 2.0 (2°C)   | 2.2 (2°C)          | 2.5 (2°C)   | 3.3 (2°C)    |  |  |  |  |  |
| Heating<br>(Warmer | Capacity                                  | at operation limit temperature  | kW    | 2.5 (-15°C) | 1.7 (-25°C)  | 3.2 (-15°C) | 2.6 (-25°C)        | 5.2 (-15°C) | 3.8 (-25°C)  |  |  |  |  |  |
| (warmer<br>Season) | Back up heatin                            | g capacity                      | kW    | 0.0 (2°C)   | 0.0 (2°C)    | 0.0 (2°C)   | 0.0 (2°C)          | 0.0 (2°C)   | 0.0 (2°C)    |  |  |  |  |  |
| Occasorij          | Annual electricity                        | y consumption (*2)              | kWh/a | 376         | 397          | 429         | 471                | 614         | 787          |  |  |  |  |  |
|                    | SCOP                                      |                                 |       | 6.3         | 6.3          | 6.5         | 4.8 / 6.5          | 5.7         | 5.9          |  |  |  |  |  |
|                    |   | Energy efficiency class         |       | A+++        | A+++         | A+++        | A+++               | A+++        | A+++         |  |  |  |  |  |

| Tomas              |                      |                                 |       |             |             |             | lassanta a 11 | leat Pump   |             |             |             |
|--------------------|----------------------|---------------------------------|-------|-------------|-------------|-------------|---------------|-------------|-------------|-------------|-------------|
| Туре               | .,                   |                                 |       | 1407.0      | FOEL/FO     | 1407.0      |               |             | E40)/E0     | 1407.0      | EFOL/FO     |
| Indoor Ur          | nit                  |                                 |       | MSZ-SF25VE3 |             | MSZ-SF35VE3 |               |             | F42VE3      | MSZ-SF50VE3 |             |
| Outdoor            | Unit                 |                                 |       | MUZ-SF25VE  | MUZ-SF25VEH | MUZ-SF35VE  | MUZ-SF35VEH   | MUZ-SF42VE  | MUZ-SF42VEH | MUZ-SF50VE  | MUZ-SF50VEH |
| Refrigera          | int                  |                                 |       |             |             |             | R410          | )A (*1)     |             |             |             |
|                    | Design load          |                                 | kW    | 2.5         | 2.5         | 3.5         | 3.5           | 4.2         | 4.2         | 5.0         | 5.0         |
| Cooling            | Annual electricity   | consumption (*2)                | kWh/a | 116         | 116         | 171         | 171           | 196         | 196         | 246         | 246         |
| Cooling            | SEER                 |                                 |       | 7.6         | 7.6         | 7.2         | 7.2           | 7.5         | 7.5         | 7.2         | 7.2         |
|                    |                      | Energy efficiency class         |       | A++         | A++         | A++         | A++           | A++         | A++         | A++         | A++         |
|                    | Design load          |                                 | kW    | 1.3 (2°C)   | 1.3 (2°C)   | 1.6 (2°C)   | 1.6 (2°C)     | 2.1 (2°C)   | 2.1 (2°C)   | 2.3 (2°C)   | 2.3 (2°C)   |
|                    |                      | at reference design temperature | kW    | 1.3 (2°C)   | 1.3 (2°C)   | 1.6 (2°C)   | 1.6 (2°C)     | 2.1 (2°C)   | 2.1 (2°C)   | 2.3 (2°C)   | 2.3 (2°C)   |
|                    | Declared<br>Capacity | at bivalent temperature         | kW    | 1.3 (2°C)   | 1.3 (2°C)   | 1.6 (2°C)   | 1.6 (2°C)     | 2.1 (2°C)   | 2.1 (2°C)   | 2.3 (2°C)   | 2.3 (2°C)   |
| Heating<br>(Warmer | Capacity             | at operation limit temperature  | kW    | 2.0 (-15°C) | 1.6 (-20°C) | 2.2 (-15°C) | 1.6 (-20°C)   | 3.4 (-15°C) | 2.2 (-20°C) | 3.4 (-15°C) | 2.3 (-20°C) |
| (warmer<br>Season) | Back up heating      | capacity                        | kW    | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)     | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)   |
|                    | Annual electricity   | consumption (*2)                | kWh/a | 337         | 337         | 923 / 418   | 417           | 507         | 507         | 563         | 563         |
|                    | SCOP                 |                                 |       | 5.4         | 5.4         | 5.4         | 5.4           | 5.8         | 5.8         | 5.7         | 5.7         |
|                    |                      | Energy efficiency class         |       | A+++        | A+++        | A+++        | A+++          | A+++        | A+++        | A+++        | A+++        |

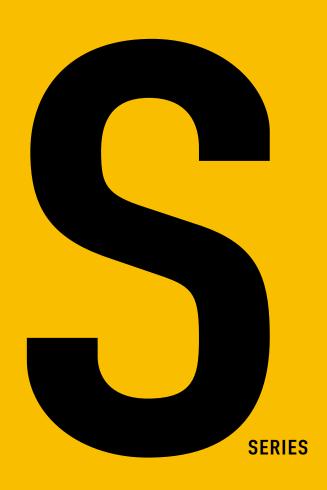
| Туре               |                                     |  |    |             | Inverter H  | eat Pump    |             |
|--------------------|-------------------------------------|--|----|-------------|-------------|-------------|-------------|
| Indoor Ur          | nit                                 |  |    | MSZ-GF60VE2 | MSZ-GF71VE2 | MSZ-WN25VA  | MSZ-WN35VA  |
| Outdoor            | Unit                                |  |    | MUZ-GF60VE  | MUZ-GF71VE  | MUZ-WN25VA  | MUZ-WN35VA  |
| Refrigera          | nt                                  |  |    |             | R410        | )A (*1)     | •           |
|                    | Design load                         |  | kW | 6.1         | 7.1         | 2.5         | 3.1         |
| Cooling            | Annual electricity consumption (*2) |  |    | 311         | 364         | 141         | 173         |
| 0009               | SEER                                |  |    | 6.8         | 6.8         | 6.2         | 6.2         |
|                    | Energy efficiency class             |  |    | A++         | A++         | A++         | A++         |
|                    | Design load                         |  |    | 2.5 (2°C)   | 3.7 (2°C)   | 1.1 (2°C)   | 1.3 (2°C)   |
|                    |                                     | At reference design temperature        | kW | 2.5 (2°C)   | 3.7 (2°C)   | 1.1 (2°C)   | 1.3 (2°C)   |
|                    | Declared<br>Capacity                | at bivalent temperature                | kW | 2.5 (2°C)   | 3.7 (2°C)   | 1.1 (2°C)   | 1.3 (2°C)   |
| Heating<br>(Warmer | Capacity                            | at operation limit temperature         | kW | 3.7 (-15°C) | 5.4 (-15°C) | 1.6 (-15°C) | 2.0 (-15°C) |
| (warmer<br>Season) | Back up heating                     | g capacity                             | kW | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)   | 0.0 (2°C)   |
| 0000011,           | Annual electricity                  | Annual electricity consumption (*2) kW |    |             | 963         | 304         | 362         |
|                    | SCOP (*4)                           | SCOP (*4)                              |    |             | 5.4         | 5.0         | 5.0         |
|                    |                                     | Energy efficiency class                |    | A+++        | A+++        | A++         | A++         |

| _                  |   |                                 |       |             |                |                |                   |                |                |                 |  |
|--------------------|---|---------------------------------|-------|-------------|----------------|----------------|-------------------|----------------|----------------|-----------------|--|
| Type               |   |                                 |       |             |                |                | Inverter Heat Pum | )              |                |                 |  |
| Indoor Ur          | nit                                       |                                 |       | MSZ-HJ25VA  | MSZ-HJ35VA     | MSZ-HJ50VA     | MSZ-HJ60VA        | MSZ-HJ71VA     | MSZ-DM25VA     | MSZ-DM35VA      |  |
| Outdoor I          | Jnit                                      |                                 |       | MUZ-HJ25VA  | MUZ-HJ35VA     | MUZ-HJ50VA     | MUZ-HJ60VA        | MUZ-HJ71VA     | MUZ-DM25VA     | MUZ-DM35VA      |  |
| Refrigera          | nt  |                                 |       |             | R410A (**)     |                |                   |                |                |                 |  |
|                    | Design load                               |                                 | kW    | 2.5         | 3.1            | 5.0            | 6.1               | 7.1            | 2.5            | 3.1             |  |
| Cooling            | Annual electricity consumption (*2) kWh/a |                                 | 171   | 212         | 292            | 354            | 441               | 149            | 190            |                 |  |
| 0009               | SEER                                      |                                 |       | 5.1         | 5.1            | 6.0            | 6.0               | 5.6            | 5.8            | 5.7             |  |
|                    |   | Energy efficiency class         |       | A           | Α              | A <sup>+</sup> | A <sup>+</sup>    | A <sup>+</sup> | A <sup>+</sup> | A <sup>+</sup>  |  |
|                    | Design load                               |                                 | kW    | 1.1 (2°C)   | 1.3 (2°C)      | 2.1 (2°C)      | 2.5 (2°C)         | 2.9 (2°C)      | 1.1 (2°C)      | 1.3 (2°C)       |  |
|                    |   | at reference design temperature | kW    | 1.1 (2°C)   | 1.3 (2°C)      | 2.1 (2°C)      | 2.5 (2°C)         | 2.9 (2°C)      | 1.1 (2°C)      | 1.3 (2°C)       |  |
|                    | Declared<br>Capacity                      | at bivalent temperature         | kW    | 1.1 (2°C)   | 1.3 (2°C)      | 2.1 (2°C)      | 2.5 (2°C)         | 2.9 (2°C)      | 1.1 (2°C)      | 1.3 (2°C)       |  |
| Heating            | Сарасну                                   | at operation limit temperature  | kW    | 1.9 (-10°C) | 2.4 (-10°C)    | 3.8 (-10°C)    | 4.6 (-10°C)       | 5.4 (-10°C)    | 1.9 (-10°C)    | 2.4 (-10°C)     |  |
| (Warmer<br>Season) | Back up heating                           | capacity                        | kW    | 0.0 (2°C)   | 0.0 (2°C)      | 0.0 (2°C)      | 0.0 (2°C)         | 0.0 (2°C)      | 0.0 (2°C)      | 0.0 (2°C)       |  |
| Coasonj            | Annual electricity                        | consumption (*2)                | kWh/a | 356         | 426            | 539            | 674               | 813            | 325            | 386             |  |
|                    | SCOP                                      |                                 |       | 4.3         | 4.3            | 5.5            | 5.1               | 4.9            | 4.7            | 4.7             |  |
|                    |   | Energy efficiency class         |       |             | A <sup>+</sup> | A+++           | A+++              | A++            | A++            | A <sup>++</sup> |  |

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) Refrigerant leakage contributes to climate change. Refrigerant with over global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1550. This means that if 1 kg of this refrigerant thid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.









## **SELECTION**

Series line-up consists of two types of indoor units. Choose the model that best matches room conditions.

#### **SELECT INDOOR UNIT**

Select the optimal unit and capacity required to match room construction and air conditioning requirements.







#### **Units without Remote Controller**

SLZ-M15FA (Multi split series connection only)

SLZ-M25FA

SLZ-M35FA

SLZ-M50FA

SLZ-M60FA

#### **Panel**

| Panel      | With<br>Signal<br>Receiver | With<br>3D i-see<br>Sensor | With<br>Wireless<br>Remote<br>Controller |
|------------|----------------------------|----------------------------|--|
| SLP-2FA    |                            |                            |  |
| SLP-2FAL   | ✓                          |                            |  |
| SLP-2FAE   |                            | ✓                          |  |
| SLP-2FALE  | ✓                          | ✓                          |  |
| SLP-2FALM  | ✓                          |                            | ✓  |
| SLP-2FALME | ✓                          | ✓                          | ✓  |



#### **Units without Remote Controller**

SEZ-M25DA

SEZ-M35DA

SEZ-M50DA

SEZ-M60DA

SEZ-M71DA

#### **Units with Wireless Remote Controller**

SEZ-M25DAL

SEZ-M35DAL

SEZ-M50DAL

SEZ-M60DAL

SEZ-M71DAL



There is one outdoor unit for respective indoor units.













SUZ-M50VA

R410A





SUZ-KA50/60/71VA6

<sup>\*</sup> To confirm compatibility with the MXZ Series multi-type system, refer to the MXZ Series page.



R32
R410A

SLZ-M15/25/35/50/60FA

4-way air outlets good Design AWARD 2015

Compact, lightweight ceiling cassette units with 4-way air outlets provide maximum comfort by evenly distributing airflow throughout the entire room.

#### **New lineup**

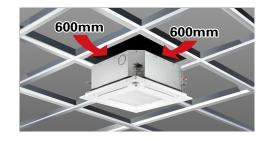
1.5kW has been introduced for multi connection. The diverse selection enables the best solution for both customer and location.

| Capacity | 15 | 25 | 35 | 50 | 60 |
|----------|----|----|----|----|----|
| SLZ-KF   |    | ✓  | ✓  | ✓  | ✓  |
| SLZ-M    | ✓  | ✓  | ✓  | ✓  | ✓  |

#### Beautiful design

The straight-line form introduced has resulted in a beautiful square design. Its high affinity ensures the ability to blend in seamlessly with any interior. The indoor unit is an ideal match for office or store use.

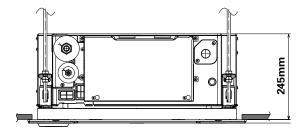
Of course, design matched  $2\times2$  (600mm\*600mm) ceiling construction specifications.



#### The height above ceiling of 245mm

The height above ceiling of 245mm enables fitting into narrow ceiling space. Installation is simple, even when the ceiling spaces are narrow to make the ceilings higher

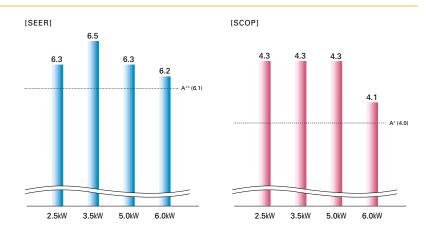
Of course, in addition to our products, replacing competitors' product is simplified too.



#### **Energy-saving Performance\***

The energy-saving performance achieved  $A^{++}$  in SEER and  $A^{+}$  in SCOP.

\*In case of connecting with SUZ-KA-VA6



#### Quietness

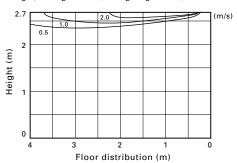
Low sound level has been realized by introduction of 3D turbo fan. New SLZ can give users quieter and move comfortable room condition.



#### **Horizontal Airflow**

The new airflow control completely eliminates that uncomfortable drafty-feeling with the introduction of a horizontal airflow that spreads across the ceiling. The ideal airflow for offices and restaurants.

#### [Airflow distribution]\* Flow angle, cooling at 20°C (ceiling height 2.7m)



\*Vane angle: Horizontal

#### Easy installation

#### Temporary hanging hook

The structure of the panel has been revised and is now equipped with a temporary hanging hook. This has improved work efficiency during temporary panel installation.





#### No need to remove screws

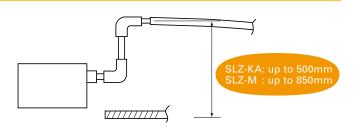
Installation is possible without removing the screws for control box simply loosen them. This eliminates the risk of losing screws.





#### **Drain lift**

As the result of using a larger drain pan, the maximum drain lifting height has been up to 850mm, greatly enhancing construction flexibility compared to the existing model.



#### 3D i-see Sensor for S & P SERIES

#### Detects number of people

#### Room occupancy energy-saving mode

The 3D i-see Sensor detects the number of people in the room. It then calculates the occupancy rate based on the maximum number of people in the room up to that point in time in order to save air-conditioning power. When the occupancy rate is approximately 30%, air-conditioning power equivalent to 1°C during both cooling and heating operation is saved. The temperature is controlled according to the number of people.

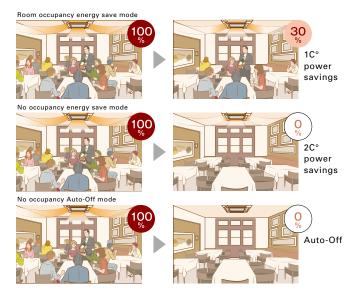
#### No occupancy energy-saving mode

When 3D i-see Sensor detects that no one is in the room, the system is switched to a pre-set power-saving mode. If the room remains unoccupied for more than 60min, air-conditioning power equivalent to 2°C during both cooling and heating operation is saved. This contributes to preventing waste in terms of heating and cooling.

#### No occupancy Auto-OFF mode\*

When the room remains unoccupied for a pre-set period of time, the air conditioner turns off automatically, thereby providing even greater power savings. The time until operation is stopped can be set in intervals of 10min, ranging from 60 to 180 min.

\*When MA Remote Controller is used to control multiple refrigerant systems, "No occupancy Auto-OFF mode" cannot be used.



\*PAR-40MAA is required for each setting

#### Detects people's position

#### Direct/Indirect settings\*

Some people do not like the feel of wind, some want to be warm from head to toe. People's likes and dislikes vary. With the 3D i-see Sensor, it is possible to choose to block or not block to the wind for each vane.



\*PAR-40MAA or PAR-SL100A-E is required for each setting

#### Seasonal airflow\*

#### <When cooling>

Saves energy while keeping a comfortable effective temperature by automatically switching between ventilation and cooling. When a pre-set temperature is reached, the air conditioning unit switches to swing fan operation to maintain the effective temperature. This clever function contributes to keeping a comfortable coolness.

#### <When heating>

The air conditioning unit automatically switches between circulator and heating. Wasted heat that accumulates near the ceiling is reused via circulation. When a pre-set temperature is reached the air conditioner switches from heating to circulator and blows air in the horizontal direction. It pushes down the warm air that has gathered near the ceiling to people's height, thereby providing smart heating.



\*PAR-40MAA is required for each setting.

#### Simultaneous Multi-system\*

Multiple indoor units can be installed to match the room layout, ensuring comfort and coverage of the entire room. Connection of multiple cassettes to P Series power inverter outdoor units shown below is possible.

\* Only for RA410A connection

| Power Inverter Combination |                   | SLZ-M35FA                     | SLZ-M50FA                   | SLZ-M60FA                    |
|----------------------------|-------------------|-------------------------------|-----------------------------|------------------------------|
| PUZ-ZM71VHA                |                   | Twin                          | _                           | _                            |
| PUHZ-ZRP71VHA2             | Distribution pipe | MSDD-50TR2-E<br>MSDD-50TR-E   |                             |                              |
| PUZ-ZM100V(Y)KA            |                   | Triple                        | Twin                        | _                            |
| PUHZ-ZRP100V(Y)KA3         | Distribution pipe | MSDT-111R3-E<br>MSDT-111R-E   | MSDD-50TR2-E<br>MSDD-50TR-E |                              |
| PUZ-ZM125V(Y)KA            |                   | Quadruple                     | Triple                      | Twin                         |
| PUHZ-ZRP125V(Y)KA3         | Distribution pipe | MSDF-1111R2-E<br>MSDF-1111R-E | MSDT-111R3-E<br>MSDT-111R-E | MSDD-50TR2-E2<br>MSDD-50TR-E |
| PUZ-ZM140V(Y)KA            |                   | Quadruple                     | Triple                      | _                            |
| PUHZ-ZRP140V(Y)KA3         | Distribution pipe | MSDF-1111R2-E<br>MSDF-1111R-E | MSDT-111R3-E<br>MSDT-111R-E | _                            |

#### Inverter PAM **SLZ-M** SERIES Indoor Unit **Outdoor Unit R32 R32 R32 R32** GOOD DESIGN AWARD 2015 SLZ-M15/25/35/50/60FA SUZ-M25/35VA SUZ-M50VA SUZ-M60VA **Panel** Remote Controller With Signal Receiver With 3D i-see With Wireless Panel Sensor Remote Controller SLP-2FA 25.0°C SLP-2FAL SLP-2FAE SLP-2FALE SLP-2FALM \*optional \*optional \*optional Enclosed in SLP-2FALME SLP-2FALM/SLP-2FALME

| Туре  |   |                                 |         |                          |                          | Inverter Heat Pump       |                          |                        |
|---|---|---------------------------------|---------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|
| Indoor Un                                       | nit   |                                 |         | SLZ-M15FA                | SLZ-M25FA                | SLZ-M35FA                | SLZ-M50FA                | SLZ-M60FA              |
| Outdoor U                                       |   |                                 |         | for Multi connection     | SUZ-M25VA                | SUZ-M35VA                | SUZ-M50VA                | SUZ-M60VA              |
| Refrigera                                       |   |                                 |         | 101 Marti Connection     | 302-WIZOVA               | R32*1                    | 302-W30VA                |                        |
| Power   | Source  |                                 |         |                          |                          | Outdoor power supply     |                          |                        |
| Supply  | Outdoor (V/Phase/H                                  | I-)                             |         |                          |                          | 230 / Single / 50        |                          |                        |
| Cooling   | Capacity  | Rated                           | kW      | _                        | 2.5                      | 3.5                      | 4.6                      | 5.7                    |
| Cooming   | Capacity  | Min - Max                       | kW      | _                        | 1.4 - 3.2                | 0.7 - 3.9                | 1.0 - 5.2                | 1.5 - 6.3              |
|   | Total Input   | Rated                           | kW      |                          | 0.65                     | 1.09                     | 1.0 - 5.2                | 1.5 - 6.3              |
|   | Design Load   | nated                           | kW      | _                        | 2.5                      | 3.5                      | 4.6                      | 5.7                    |
|   | Annual Electricity Co                               | *?                              | kWh/a   |                          | 139                      | 183                      | 253                      | 321                    |
|   | SEER*3  | onsumption                      | Kvvnja  | -                        |                          |                          |                          |                        |
|   | SEER  | F                               |         | -                        | 6.3<br>A++               | 6.7<br>A++               | 6.3<br>A++               | 6.2<br>A++             |
|   | 2 1:  | Energy Efficiency Class         |         | -                        |                          |                          |                          |                        |
| Heating   | Capacity  | Rated                           | kW      | -                        | 3.2                      | 4.0                      | 5.0                      | 6.4                    |
| Season)   |   | Min - Max                       | kW      | -                        | 1.3 - 4.2                | 1.0 - 5.0                | 1.3 - 5.5                | 1.6 - 7.3              |
| Design Load Declared Capacity Back Up Heating 0 |   | Rated                           | kW      |                          | 0.88                     | 1.07                     | 1.56                     | 2.13                   |
|   |   |                                 | kW      | -                        | 2.2                      | 2.6                      | 3.6                      | 4.6                    |
|   | Declared Capacity                                   | at reference design temperature | kW      | -                        | 2.0 (-10°C)              | 2.3 (-10°C)              | 3.2 (-10°C)              | 4.1 (-10°C)            |
|   |   | at bivalent temperature         | kW      | -                        | 2.0 (-7°C)               | 2.3 (-7°C)               | 3.2 (-7°C)               | 4.1 (-7°C)             |
|   |   | at operation limit temperature  | kW      | -                        | 2.0 (-10°C)              | 2.3 (-10°C)              | 3.2 (-10°C)              | 4.1 (-10°C)            |
|   |   |                                 | kW      | -                        | 0.2                      | 0.3                      | 0.4                      | 0.5                    |
|   | Annual Electricity Co                               | onsumption*2                    | kWh/a   | -                        | 716                      | 843                      | 1191                     | 1559                   |
|   | SCOP*3  |                                 |         | -                        | 4.3                      | 4.3                      | 4.2                      | 4.1                    |
|   |   | Energy Efficiency Class         |         | -                        | A+                       | A+                       | A+                       | A+                     |
| Operatin  | g Current (max)                                     |                                 | Α       | -                        | 7.0                      | 8.7                      | 13.7                     | 15.1                   |
| ndoor   | Input   | Rated                           | kW      | 0.02                     | 0.02                     | 0.02                     | 0.03                     | 0.04                   |
| Unit  | Operating Current (r                                | nax)                            | Α       | 0.17                     | 0.20                     | 0.24                     | 0.32                     | 0.43                   |
|   | Dimensions <panel></panel>                          | H × W × D                       | mm      | 245-570-570 <10-625-625> | 245-570-570 <10-625-625> | 245-570-570 <10-625-625> | 245-570-570 <10-625-625> | 245-570-570 <10-625-62 |
|   | Weight <panel></panel>                              |                                 | kg      | 15 <3>                   | 15 <3>                   | 15 <3>                   | 15 <3>                   | 15 <3>                 |
|   | Air Volume [Lo-Mid-                                 | Hi]                             | m³/min  | 6.0 - 6.5 - 7.0          | 6.5 - 7.5 - 8.5          | 6.5 - 8.0 - 9.5          | 7.0 - 9.0 - 11.5         | 7.5 - 11.5 - 13.0      |
|   | Sound Level (SPL) [L                                | .o-Mid-Hi]                      | dB(A)   | 24 - 26 - 28             | 25 - 28 - 31             | 25 - 30 - 34             | 27 - 34 - 39             | 32 - 40 - 43           |
|   | Sound Level (PWL)                                   |                                 | dB(A)   | 45                       | 48                       | 51                       | 56                       | 60                     |
| Outdoor   | Dimensions  | $H \times W \times D$           | mm      | -                        | 550 - 800 - 285          | 550 - 800 - 285          | 714 - 800 - 285          | 880 - 840 - 330        |
| Unit  | Weight  | •                               | kg      | -                        | 30                       | 35                       | 41                       | 54                     |
|   | Air Volume  | Cooling                         | m³/min  | -                        | 36.3                     | 34.3                     | 45.8                     | 50.1                   |
|   |   | Heating                         | m³/min  | -                        | 34.6                     | 32.7                     | 43.7                     | 50.1                   |
|   | Sound Level (SPL)                                   | Cooling                         | dB(A)   |                          | 45                       | 48                       | 48                       | 49                     |
|   |   | Heating                         | dB(A)   | -                        | 46                       | 48                       | 49                       | 51                     |
|   | Sound Level (PWL)                                   | Cooling                         | dB(A)   |                          | 59                       | 59                       | 64                       | 65                     |
|   | Sound Level (PWL)   Cooling Operating Current (max) |                                 |         | _                        | 6.8                      | 8.5                      | 13.5                     | 14.8                   |
|   |   | •                               | A       | _                        | 10                       | 10                       | 20                       | 20                     |
|   | Breaker Size  |                                 |         |                          |                          |                          |                          |                        |
| Ext.  | Breaker Size  | Liquid / Gas                    | _       | _                        | 6.35 / 9.52              | 6.35 / 9.52              | 6.35 / 12.7              | 6.35 / 15.88           |
|   | Breaker Size Diameter                               | Liquid / Gas                    | mm      | -                        | 6.35 / 9.52              | 6.35 / 9.52              | 6.35 / 12.7              | 6.35 / 15.88           |
| Ext.<br>Piping                                  | Breaker Size Diameter Max. Length                   | Out-In                          | mm<br>m | -                        | 20                       | 20                       | 30                       | 30                     |
|   | Breaker Size Diameter                               | 1                               | mm      |                          | ,                        | ,                        | ,                        | ,                      |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

#### **SLZ-M** SERIES











**R410A** 







#### **Panel**

| Panel      | With Signal<br>Receiver | With 3D i-see<br>Sensor | With Wireless<br>Remote Controller |
|------------|-------------------------|-------------------------|------------------------------------|
| SLP-2FA    |                         |                         |                                    |
| SLP-2FAL   | ✓                       |                         |                                    |
| SLP-2FAE   |                         | <b>~</b>                |                                    |
| SLP-2FALE  | ✓                       | <b>~</b>                |                                    |
| SLP-2FALM  | ✓                       |                         | ✓                                  |
| SLP-2FALME | ✓                       | ✓                       | ✓                                  |

#### **Outdoor Unit**







SUZ-KA25/35VA6

SUZ-KA50/60VA6

#### Remote Controller









Enclosed in SLP-2FALM/SLP-2FALME

\*optional

\*optional

\*optional















SI 7-M15FA

















Indoor Unit









| Failure<br>Recall |  |
|-------------------|--|
|                   |  |

|    |             | Inverter Heat Pump   |             |             |
|----|-------------|----------------------|-------------|-------------|
|    | SLZ-M25FA   | SLZ-M35FA            | SLZ-M50FA   | SLZ-M60FA   |
| on | SUZ-KA25VA6 | SUZ-KA35VA6          | SUZ-KA50VA6 | SUZ-KA60VA6 |
|    |             | R410A*1              |             |             |
|    |             | Outdoor power supply |             |             |

| mador or   | IIL                        |                                 |        | SLZ-IVITSTA              | SLZ-IVIZSFA              | SLZ-IVIJOFA              | SLZ-IVISUFA              | SLZ-IVIOUTA              |  |
|--|----------------------------|---------------------------------|--------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| Outdoor l  | Jnit                       |                                 |        | for Multi connection     | SUZ-KA25VA6              | SUZ-KA35VA6              | SUZ-KA50VA6              | SUZ-KA60VA6              |  |
| Refrigera  | nt                         |                                 |        |                          |                          | R410A*1                  |                          |                          |  |
| Power  | Source                     |                                 |        |                          |                          | Outdoor power supply     |                          |                          |  |
| Supply   | Outdoor (V/Phase/H         | lz)                             |        |                          |                          | 230 / Single / 50        |                          |                          |  |
| Cooling  | Capacity                   | Rated                           | kW     | -                        | 2.6                      | 3.5                      | 4.6                      | 5.6                      |  |
|  |                            | Min - Max                       | kW     | -                        | 1.5 - 3.2                | 1.4 - 3.9                | 2.3 - 5.2                | 2.3 - 6.5                |  |
| Supply (Cooling (Cool | Total Input                | Rated                           | kW     | -                        | 0.684                    | 0.972                    | 1.394                    | 1.767                    |  |
|  | Design Load                |                                 | kW     | -                        | 2.6                      | 3.5                      | 4.6                      | 5.6                      |  |
|  | Annual Electricity Co      | onsumption*2                    | kWh/a  | -                        | 144                      | 188                      | 256                      | 316                      |  |
|  | SEER*3                     |                                 |        | -                        | 6.3                      | 6.5                      | 6.3                      | 6.2                      |  |
|  |                            | Energy Efficiency Class         |        | -                        | A++                      | A++                      | A++                      | A++                      |  |
| Heating  | Capacity                   | Rated                           | kW     | -                        | 3.2                      | 4.0                      | 5.0                      | 6.4                      |  |
| (Average   |                            | Min - Max                       | kW     | -                        | 1.3 - 4.2                | 1.7 - 5.0                | 1.7 - 6.0                | 2.5 - 7.4                |  |
| Season)  | Total Input                | Rated                           | kW     | -                        | 0.886                    | 1.108                    | 1.558                    | 2.278                    |  |
|  | Design Load                | ·                               | kW     | -                        | 2.2                      | 2.6                      | 3.6                      | 4.6                      |  |
|  | Declared Capacity          | at reference design temperature | kW     | -                        | 2.0 (-10°C)              | 2.3 (-10°C)              | 3.2 (-10°C)              | 4.0 (-10°C)              |  |
|  |                            | at bivalent temperature         | kW     | -                        | 2.0 (-7°C)               | 2.3 (-7°C)               | 3.2 (-7°C)               | 4.0 (-7°C)               |  |
|  |                            | at operation limit temperature  | kW     | -                        | 2.0 (-10°C)              | 2.3 (-10°C)              | 3.2 (-10°C)              | 4.0 (-10°C)              |  |
|  | Back Up Heating Car        | pacity                          | kW     | _                        | 0.2                      | 0.3                      | 0.4                      | 0.4                      |  |
|  | Annual Electricity Co      | onsumption*2                    | kWh/a  | -                        | 716                      | 845                      | 1172                     | 1572                     |  |
|  | SCOP*3                     | •                               |        | -                        | 4.3                      | 4.3                      | 4.3                      | 4.1                      |  |
|  |                            | Energy Efficiency Class         |        | -                        | A+                       | A+                       | A+                       | A+                       |  |
| Operatin   | g Current (max)            | •                               | Α      | -                        | 7.2                      | 8.4                      | 12.3                     | 14.4                     |  |
| Indoor   | Input                      | Rated                           | kW     | 0.02                     | 0.02                     | 0.02                     | 0.03                     | 0.04                     |  |
| Unit   | Operating Current (r       | nax)                            | Α      | 0.17                     | 0.20                     | 0.24                     | 0.32                     | 0.43                     |  |
|  | Dimensions <panel></panel> | H × W × D                       | mm     | 245-570-570 <10-625-625> | 245-570-570 <10-625-625> | 245-570-570 <10-625-625> | 245-570-570 <10-625-625> | 245-570-570 <10-625-625> |  |
|  | Weight <panel></panel>     |                                 | kg     | 15 <3>                   | 15 <3>                   | 15 <3>                   | 15 <3>                   | 15 <3>                   |  |
|  | Air Volume [Lo-Mid-H       | Hi]                             | m³/min | 6.0 - 6.5 - 7.0          | 6.5 - 7.5 - 8.5          | 6.5 - 8.0 - 9.5          | 7.0 - 9.0 - 11.5         | 7.5 - 11.5 - 13.0        |  |
|  | Sound Level (SPL) [L       | o-Mid-Hi]                       | dB(A)  | 24 - 26 - 28             | 25 - 28 - 31             | 25 - 30 - 34             | 27 - 34 - 39             | 32 - 40 - 43             |  |
|  | Sound Level (PWL)          |                                 | dB(A)  | 45                       | 48                       | 51                       | 56                       | 60                       |  |
| Outdoor  | Dimensions                 | $H \times W \times D$           | mm     | -                        | 550 - 800 - 285          | 550 - 800 - 285          | 880 - 840 - 330          | 880 - 840 - 330          |  |
| Unit   | Weight                     |                                 | kg     | -                        | 30                       | 35                       | 54                       | 50                       |  |
|  | Air Volume                 | Cooling                         | m³/min | -                        | 32.6                     | 36.3                     | 44.6                     | 40.9                     |  |
|  |                            | Heating                         | m³/min | -                        | 34.7                     | 34.8                     | 44.6                     | 49.2                     |  |
|  | Sound Level (SPL)          | Cooling                         | dB(A)  | -                        | 47                       | 49                       | 52                       | 55                       |  |
|  |                            | Heating                         | dB(A)  | -                        | 48                       | 50                       | 52                       | 55                       |  |
|  | Sound Level (PWL)          | Cooling                         | dB(A)  | -                        | 58                       | 62                       | 65                       | 65                       |  |
|  | Operating Current (r       | nax)                            | А      |                          | 7.0                      | 8.2                      | 12.0                     | 14.0                     |  |
|  | Breaker Size               |                                 | Α      |                          | 10                       | 10                       | 20                       | 20                       |  |
| Ext.   | Diameter                   | Liquid / Gas                    | mm     | -                        | 6.35 / 9.52              | 6.35 / 9.52              | 6.35 / 12.7              | 6.35 / 15.88             |  |
| Piping   | Max. Length                | Out-In                          | m      | -                        | 20                       | 20                       | 30                       | 30                       |  |
|  | Max. Height Out-In         |                                 |        | -                        | 12                       | 12                       | 30                       | 30                       |  |
|  | ed Operating Range         | Cooling                         | °C     |                          | -10 ~ +46                | -10 ~ +46                | -15 ~ +46                | -15 ~ +46                |  |
| [Outdoor]  |                            | Heating                         | °C     | _                        | -10 ~ +24                | -10 ~ +24                | -10 ~ +24                | -10 ~ +24                |  |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

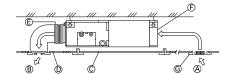




This concealed ceiling-mounted indoor unit series is compact, and fits easily into rooms with lowered ceilings. Highly reliable energy-saving performance makes it a best match choice for concealed unit installations.

#### Compact Ceiling-concealed Units

Only the intake-air grille and outlet vents are visible when using this ceiling-concealed indoor unit. The rest of the unit is conveniently hidden in the ceiling cavity, essentially leaving the ceiling and walls free of bulky looking devices and maintaining a high-class interior décor. The compact units require minimal space and can be installed in buildings with lowered ceilings, where exposed units were the rule in the past.



- Air inlet
- Air outlet
- © Access door
  © Ceiling surface
  © Canvas duct
- Air filter © Inlet grille

#### Selection of Fan Speeds and Static Pressure Levels

DC fan motor settings have been increased to accommodate more application needs. Three fan speed settings (Low, Medium and High) and four static pressure levels (5, 15, 35 and 50Pa) are now available.

SEZ-M25-71DA(L) 5/15/35/50 Pa

Four Levels Available for All Models

We've lowered the minimum static pressure level, resulting in less room noise when the optimum static pressure is selected.

|                          | SPL (Low Fan Mode) |
|--------------------------|--------------------|
|                          | SEZ-M              |
| External Static Pressure | 15 Pa              |
| 35                       | 23dB               |
| 50                       | 30dB               |
| 60                       | 30dB               |
| 71                       | 30dB               |
|                          |                    |

#### **Drain Pump (Optional)**

The PAC-KE07DM-E drain pump is now available as an option.

With the pump, a drain hose length of up to 550mm can be used, adding to increased installation possibilities.

#### SEZ-M SERIES









**R32** 















SEZ-M25/35/50/60/71DA (Requires Wired Remote Controller) SEZ-M25/35/50/60/71DAL (Wireless Remote Controller is enclosed)

#### Outdoor Unit









#### Remote Controller









Enclosed in SEZ-M DAL

\*optional (for SEZ-M DA)

\*optional (for SEZ-M DA)

\*optional (for SEZ-M DA)



















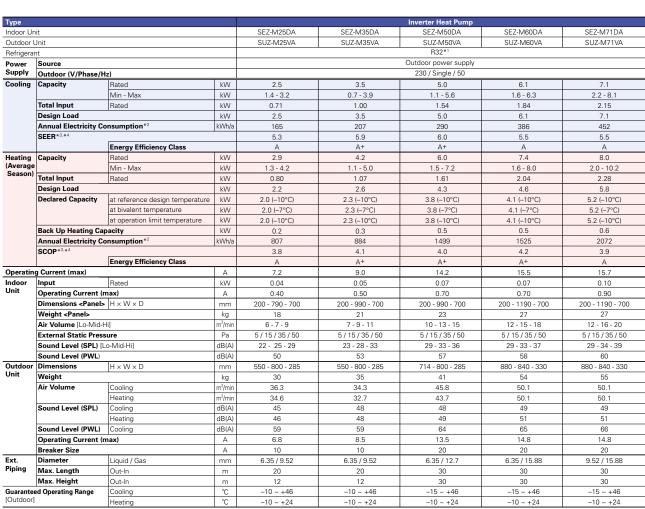












<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 SEER/SCOP are measured at ESP 35Pa.

\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

#### **SEZ-M** SERIES















#### Indoor Unit





SEZ-M25/35/50/60/71DA (Requires Wired Remote Controller)
SEZ-M25/35/50/60/71DAL (Wireless Remote Controller is enclosed)

#### Outdoor Unit

#### R410A





#### R410A



SUZ-KA50/60/71VA6

#### Remote Controller







\*optional (for SEZ-M DA)



\*optional (for SEZ-M DA)



\*optional (for SEZ-M DA)























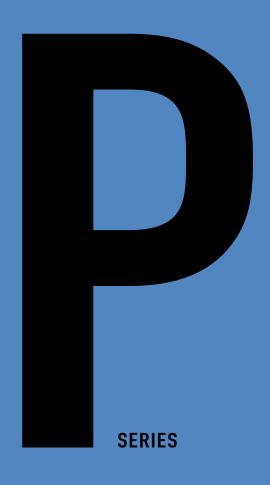






| Туре   |  |                                 |         |                  |                  | Inverter Heat Pump   |                                  |                 |
|--|--|---------------------------------|---------|------------------|------------------|----------------------|----------------------------------|-----------------|
|  | nit  |                                 |         | SEZ-M25DA(L)     | SEZ-M35DA(L)     | SEZ-M50DA(L)         | SEZ-M60DA(L)                     | SEZ-M71DA(L     |
| Outdoor  | Unit                                       |                                 |         | SUZ-KA25VA6      | SUZ-KA35VA6      | SUZ-KA50VA6          | SUZ-KA60VA6                      | SUZ-KA71VA      |
| Refrigera  | nt   |                                 |         |                  |                  | R410A*1              |                                  |                 |
| Power  | Source                                     |                                 |         |                  |                  | Outdoor power supply |                                  |                 |
| Supply   | Outdoor (V/Phase/H                         | <b>i</b> z)                     |         |                  |                  | 230 / Single / 50    |                                  |                 |
| Cooling  | Capacity                                   | Rated                           | kW      | 2.5              | 3.5              | 5.1                  | 5.6                              | 7.1             |
|  |  | Min - Max                       | kW      | 1.5 - 3.2        | 1.4 - 3.9        | 2.3 - 5.6            | 2.3 - 6.3                        | 2.8 - 8.3       |
|  | Total Input                                | Rated                           | kW      | 0.730            | 1.010            | 1.580                | 1.740                            | 2.210           |
| door Unit butdoor Unit butdoor Unit butdoor Unit cfrigerant ower Sololing Color and Age and Ag | Design Load                                |                                 | kW      | 2.5              | 3.5              | 5.1                  | 5.6                              | 7.1             |
|  | Annual Electricity Co                      | onsumption*2                    | kWh/a   | 162              | 210              | 300                  | 356                              | 458             |
|  | SEER*3,*4                                  |                                 |         | 5.3              | 5.7              | 5.8                  | 5.3                              | 5.3             |
|  |  | Energy Efficiency Class         |         | A A              | A+               | A+                   | A                                | A               |
| leating  | Capacity                                   | Rated                           | kW      | 2.9              | 4.2              | 6.4                  | 7.4                              | 8.1             |
| Average  | ' '  | Min - Max                       | kW      | 1.3 - 4.5        | 1.7 - 5.0        | 1.7 - 7.2            | 2.5 - 8.0                        | 2.6 - 10.4      |
| Season)  | Total Input                                | Rated                           | kW      | 0.803            | 1.130            | 1.800                | 2.200                            | 2.268           |
|  | Design Load                                | 1                               | kW      | 2.2              | 2.8              | 4.6                  | 5.5                              | 6.0             |
|  | Declared Capacity                          | at reference design temperature | kW      | 1.9 (–10°C)      | 2.5 (-10°C)      | 4.1 (-10°C)          | 4.5 (-10°C)                      | 5.3 (-10°C)     |
|  |  | at bivalent temperature         | kW      | 1.9 (-7°C)       | 2.5 (-7°C)       | 4.1 (-7°C)           | 4.8 (-7°C)                       | 5.3 (-7°C)      |
|  |  | at operation limit temperature  | kW      | 1.9 (–10°C)      | 2.5 (-10°C)      | 4.1 (-10°C)          | 4.5 (-10°C)                      | 5.3 (-10°C)     |
|  | Back Up Heating Car                        |                                 | kW      | 0.3              | 0.3              | 0.5                  | 1.0                              | 0.7             |
|  | Annual Electricity Co                      | • •                             | kWh/a   | 808              | 979              | 1653                 | 1878                             | 2202            |
|  | SCOP*3,*4                                  |                                 | KVVIIJO | 3.8              | 4.0              | 3.9                  | 4.1                              | 3.8             |
|  |  | Energy Efficiency Class         |         | A A              | A+               | A                    | A+                               | A               |
| neratir  | g Current (max)                            |                                 | A       | 7.4              | 8.7              | 12.7                 | 14.7                             | 17.0            |
| perating<br>door   | Input                                      | Rated                           | kW      | 0.040            | 0.050            | 0.070                | 0.070                            | 0.100           |
| Jnit   | •    | rating Current (max)            |         | 0.4              | 0.5              | 0.7                  | 0.7                              | 0.9             |
| ndoor<br>Init  | Dimensions <panel>   H × W × D</panel>     |                                 | A<br>mm | 200 - 790 - 700  |                  |                      | 200 - 1190 - 700                 | 200 - 1190 - 7  |
|  | Weight <panel></panel>                     |                                 | kg      | 18               | 21               | 23                   | 27                               | 27              |
|  | Air Volume [Lo-Mid-H                       | Hil                             | m³/min  |                  |                  |                      |                                  | 12 - 16 - 20    |
|  | External Static Press                      | -                               | Pa      | 5 / 15 / 35 / 50 | 5 / 15 / 35 / 50 | 5/15/35/50           | 12 - 15 - 18<br>5 / 15 / 35 / 50 | 5 / 15 / 35 / 5 |
|  | Sound Level (SPL) [L                       |                                 | dB(A)   | 22 - 25 - 29     | 23 - 28 - 33     | 29 - 33 - 36         | 29 - 33 - 37                     | 29 - 34 - 39    |
|  | Sound Level (PWL)                          |                                 | dB(A)   | 50               | 53               | 57                   | 58                               | 60              |
| Outdoor  | Dimensions                                 | H×W×D                           | mm      | 550 - 800 - 285  | 550 - 800 - 285  | 880 - 840 - 330      | 880 - 840 - 330                  | 880 - 840 - 33  |
| Jnit .   | Weight                                     |                                 | kg      | 30               | 35               | 54                   | 50                               | 53              |
|  | Air Volume                                 | Cooling                         | m³/min  | 32.6             | 36.3             | 44.6                 | 40.9                             | 50.1            |
|  |  | Heating                         | m³/min  | 34.7             | 34.8             | 44.6                 | 49.2                             | 48.2            |
|  | Sound Level (SPL)                          | Cooling                         | dB(A)   | 47               | 49               | 52                   | 55                               | 55              |
|  |  | Heating                         | dB(A)   | 48               | 50               | 52                   | 55                               | 55              |
|  | Sound Level (PWL)                          | Cooling                         | dB(A)   | 58               | 62               | 65                   | 65                               | 69              |
|  | Operating Current (r                       | <u> </u>                        | A       | 7.0              | 8.0              | 12.0                 | 14.0                             | 16.1            |
|  | Breaker Size                               |                                 | A       | 10               | 10               | 20                   | 20                               | 20              |
|  | Diameter                                   | Liquid / Gas                    | mm      | 6.35 / 9.52      | 6.35 / 9.52      | 6.35 / 12.7          | 6.35 / 15.88                     | 9.52 / 15.88    |
| Ext.   |  | 11                              | m       | 20               | 20               | 30                   | 30                               | 30              |
|  | Max Length                                 |                                 |         |                  | 20               | 30                   | 30                               | 30              |
| Ext.<br>Piping   | Max. Length                                | Out-In                          |         | 12               | 12               | 30                   | 30                               | 30              |
| Piping   | Max. Length Max. Height ed Operating Range | Out-In Out-In Cooling           | m<br>°C | 12<br>-10 ~ +46  | 12<br>-10 ~ +46  | 30<br>-15 ~ +46      | 30<br>-15 ~ +46                  | 30<br>-15 ~ +46 |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.
\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
\*3 SEER/SCOP are measured at ESP 35Pa.
\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.







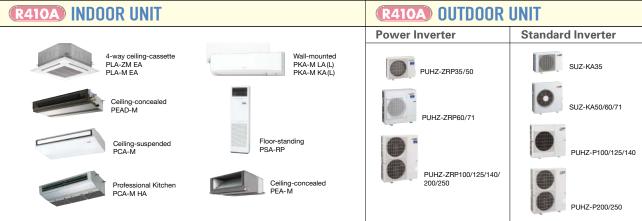


## **SELECTION**

Line-up includes a selection of eight indoor units and four series of outdoor units. Easily construct a system that best matches room air conditioning needs.

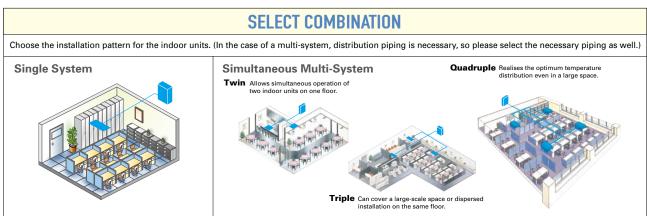


\* Some indoor units cannot be used with this unit.



To confirm compatibility with the MXZ Series, refer to the MXZ Series page.

\*Some indoor units cannot be used with this unit.



#### Connectable Combinations for Inverter Units

|                       |   | Indoor Unit Capacity        |                                |
|-----------------------|---|-----------------------------|--------------------------------|
| Outdoor Unit Capacity | Twin<br>50 : 50   | Triple<br>33 : 33 : 33      | Quadruple<br>25 : 25 : 25 : 25 |
| 71                    | 35 × 2  | _                           | _                              |
| 100                   | 50 × 2  | _                           | _                              |
| 125                   | 60 × 2  | _                           | _                              |
| 140                   | 71 × 2  | 50 × 3                      | _                              |
| 200                   | 100 × 2   | 60 × 3                      | 50 × 4                         |
| 250                   | 125 × 2   | 71 × 3                      | 60 × 4                         |
| Distribution Pipe     | MSDD-50TR-E<br>MSDD-50WR-E<br>MSDD-50TR2-E2<br>MSDD-50WR2-E | MSDT-111R-E<br>MSDT-111R3-E | MSDF-1111R-E<br>MSDF-1111R2-E  |

Note: The distribution pipe listed is required for simultaneous multi-systems.

# Power Inverter<sub>SERIES</sub>

Our Eco-conscious Power Inverter Series is designed to achieve industry-leading seasonal chergy-efficiency throught use of New R32 refrigerant and advanced technologies.







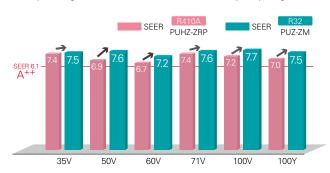


PUZ-ZM35/50VKA PUZ-ZM60/71VHA

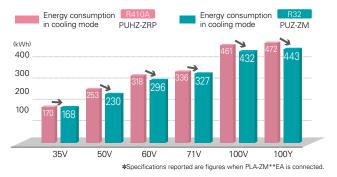
PUZ-ZM100/125/140V(Y)KA PUZ-ZM200/250YKA

#### Industry-leading energy efficiency

Introduction of new R32 refrigerant realises improved cooling efficiency. Rating of more than 7.0 achieved for all capacity range.



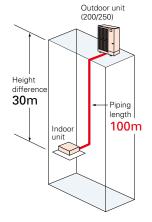
Introduction of new R32 refrigerant reduces energy consumption and realises energy savings.



#### Longer piping (60/71/100/125/140/200/250)

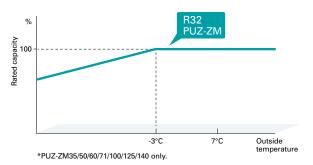
Longer piping length realised for 60, 71, 100, 125, 140, 200 and 250 classes, widely increasing installation flexibility.

|             | Piping            | Length        |
|-------------|-------------------|---------------|
|             | R410A<br>PUHZ-ZRP | R32<br>PUZ-ZM |
| 35/50       | 50m               | 50m           |
| 60/71       | 50m               | 55m           |
| 100/125/140 | 75m               | 100m          |
| 200/250     | 100m              | 100m          |



## Rated heating capacity maintained down to –3°C\*

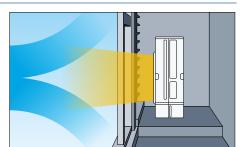
Rated heating capacity maintained even when the outside temperature is down to  $-3\,^{\circ}\text{C}$ . Stay warm even at times of cold weather.



#### 30Pa external static pressure \*Option (requires PAC-SJ71FM-E)

An external static pressure of 30Pa enables the outdoor unit to be installed on balconies in high-rise building or spaces near louvers.





\*Rated noise level will be higher when equipped with this option.

# Standard Inverter SERIES

Our Standard Series become light and compact with greater energy-saving performance.













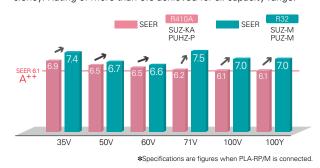
SUZ-M50VA SUZ-M60/71VA

PUZ-M100/125/140V(Y)KA

PUZ-M200/250YKA

#### Improved energy efficiency

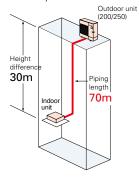
Introduction of new R32 refrigerant realises improved cooling efficiency. Rating of more than 6.6 achieved for all capacity range.



#### Longer piping (100/125/140/200/250)

Longer piping length realised for 100, 125, 140, 200 and 250 classes, widely increasing installation flexibility.

|          | Max. Piping Length        |                       |  |  |  |  |  |  |  |  |
|----------|---------------------------|-----------------------|--|--|--|--|--|--|--|--|
|          | R410A<br>SUZ-KA<br>PUHZ-P | R32<br>SUZ-M<br>PUZ-M |  |  |  |  |  |  |  |  |
| 25/35    | 20m                       | 20m                   |  |  |  |  |  |  |  |  |
| 50/60/71 | 30m                       | 30m                   |  |  |  |  |  |  |  |  |
| 100      | 50m                       | 55m                   |  |  |  |  |  |  |  |  |
| 125/140  | 50m                       | 65m                   |  |  |  |  |  |  |  |  |
| 200/250  | 70m                       | 70m                   |  |  |  |  |  |  |  |  |



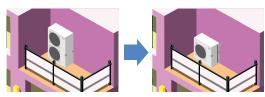
#### Light weight and compact size

Compact design fits into narrow outdoor unit space of condominiums and offices. Light weight design facilitates easy installation.



#### Unobstructive, compact, and easy to hide from view

Conventional outdoor units may spoil the view. Due to its compact size, the new model can be installed in locations that previous model is not suitable.



#### Easy transportation and installation



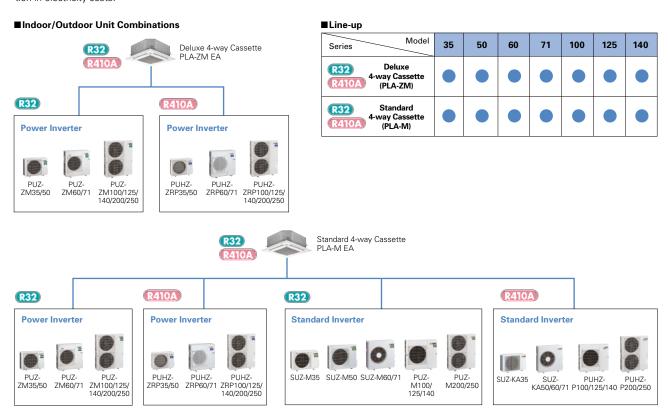


Transport efficiency improves thanks to its low height. The unit can even be transported by minivan.



#### Deluxe 4-way Cassette Line-up

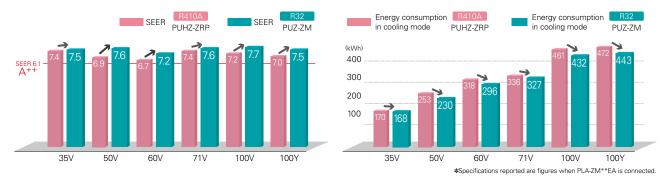
For users seeking even further energy savings, Mitsubishi Electric now offers deluxe units (PLA-ZM) to complete the line-up of models in this series, from 35-140. Compared to the standard models (PLA-RP), deluxe models provide additional energy savings, contributing to a significant reduction in electricity costs.



#### Industry-leading energy efficiency

Introduction of new R32 refrigerant realises improved cooling efficiency. Rating of more than 7.0 achieved for all capacity range.

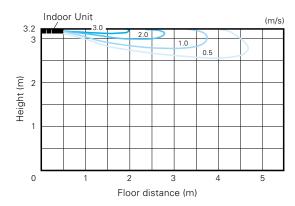
Introduction of new R32 refrigerant reduces energy consumption and realises energy savings.



#### Horizontal Airflow

The new airflow control removes that uncomfortable drafty feeling with the introduction of a horizontal airflow that spreads across the ceiling. The ideal airflow for offices and restaurants.

[Horizontal airflow] Model name: PLA-ZM140EA Ceiling height: 3.2m Mode: Cooling

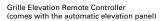




#### Automatic Grille Lowering Function (PLP-6EAJ)

An automatic grille lowering function is available for easy filter maintenance. Special wired and wireless remote controllers can be used to lower the intake grille for maintenance.







Wired Remote Controller



Wireless Remote Controller



#### **Easy Installation**

#### Electrical box wiring

After reviewing the power supply terminal position in the electrical box, the structure was redesigned to improve connectivity. This has made previously complex wiring work easier.





■ New model (E Series)



#### Increased space for plumbing work

The top and bottom positions of the liquid and gas pipes have been reversed to allow the gas pipe work, which requires more effort, to be completed first. Further, through structural innovations related to the space around the pipes, the area where the spanner can be moved has been increased, thus improving liquid pipe work and enabling it to be completed smoothly.

■ Previous model (B Series)



■ New model (E Series)



#### Temporary hanging hook

The structure of the panel has been revised and is now equipped with a temporary hanging hook. This has improved work efficiency during panel installation.





#### No need to remove screws

Installation is possible without removing the screws for the corner panel and the control box, simply loosen them. This lowers the risk of losing screws.

■ Corner panel



■ Control box cover



#### Lightweight decorative panel

After reviewing the structure and materials, weight has been reduced approximately 20% compared to the previous model, reducing the burden of installation.



#### 3D i-see Sensor for S & P SERIES

#### Detects number of people

3D i-see Sensor detects the number of people in the room and sets the air-conditioning power accordingly. This makes automatic power-saving operation possible in places where the number of people entering and exiting is large. Additionally, when the area is continuously unoccupied, the system switches to a more enhanced power-saving mode. Depending on the setting, it will save additional capacity or stop operation altogether.

#### Detects people's position

Once the position of a person is detected, the duct angle of the vane is automatically adjusted in that direction. Each vane can be independently set to "block wind" or "not block wind" according to taste

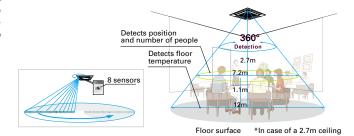


Detects number of people



Detects people's position





#### Detects number of people

#### Room occupancy energy-saving mode

The 3D i-see Sensor detects the number of people in the room. It then calculates the occupancy rate based on the maximum number of people in the room up to that point in time in order to save air-conditioning power. When the occupancy rate is approximately 30%, air-conditioning power equivalent to 1°C during both cooling and heating operation is saved. The temperature is controlled according to the number of people.

#### No occupancy energy-saving mode

When 3D i-see Sensor detects that no one is in the room, the system is switched to a pre-set power-saving mode. If the room remains unoccupied for more than 60min, air-conditioning power equivalent to 2°C during both cooling and heating operation is saved. This contributes to preventing waste in terms of heating and cooling.

#### No occupancy Auto-OFF mode\*

When the room remains unoccupied for a pre-set period of time, the air conditioner turns off automatically, thereby providing even greater power savings. The time until operation is stopped can be set in intervals of 10min, ranging from 60 to 180 min.

\* When MA Remote Controller is used to control multiple refrigerant systems, "No occupancy Auto-OFF mode" cannot be used.

# Room occupancy energy save mode



1C° power savings









\*PAR-40MAA is required for each setting

#### Detects people's position

#### Direct/Indirect settings\*

Some people do not like the feel of wind, some want to be warm from head to toe. People's likes and dislikes vary. With the 3D i-see Sensor, it is possible to choose to block or not block to the wind for each vane.



\*PAR-40MAA or PAR-SL100A-E is required for each setting

#### Seasonal airflow\*

#### <When cooling>

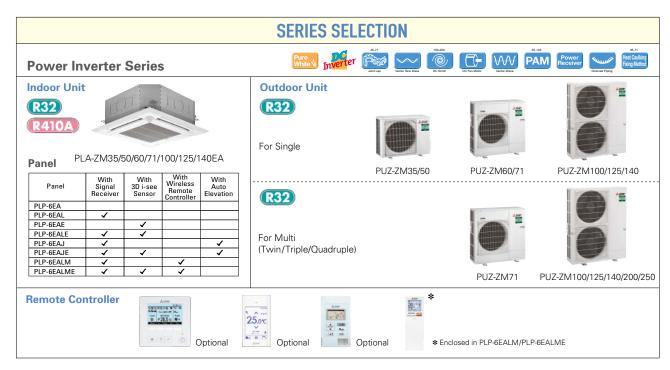
Saves energy while keeping a comfortable effective temperature by automatically switching between ventilation and cooling. When a pre-set temperature is reached, the air conditioning unit switches to swing fan operation to maintain the effective temperature. This clever function contributes to keeping a comfortable coolness.

#### <When heating>

The air conditioning unit automatically switches between circulator and heating. Wasted heat that accumulates near the ceiling is reused via circulation. When a pre-set temperature is reached the air conditioner switches from heating to circulator and blows air in the horizontal direction. It pushes down the warm air that has gathered near the ceiling to people's height, thereby providing smart heating.

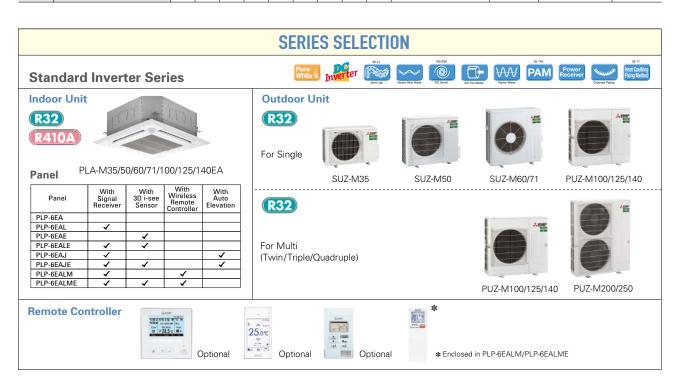


\*PAR-40MAA is required for each setting.



#### PLA-ZM EA Indoor Unit Combinations Indoor unit combinations shown below are possible.

|                           |                   | Outdoor Unit Capacity |      |      |      |       |       |       |     |     |          |              |      |      |                               |       |            |      |                   |               |      |
|---------------------------|-------------------|-----------------------|------|------|------|-------|-------|-------|-----|-----|----------|--------------|------|------|-------------------------------|-------|------------|------|-------------------|---------------|------|
| Indoor                    | Unit Combination  | For Single            |      |      |      |       |       |       |     |     | For Twin |              |      |      |                               |       | For Triple |      |                   | For Quadruple |      |
|                           |                   | 35                    | 50   | 60   | 71   | 100   | 125   | 140   | 200 | 250 | 71       | 100          | 125  | 140  | 200                           | 250   | 140        | 200  | 250               | 200           | 250  |
| Power Inverter (PUHZ-ZRP) |                   | 35x1                  | 50x1 | 60x1 | 71x1 | 100x1 | 125x1 | 140×1 | 1   | 1   | 35x2     | 50x2         | 60x2 | 71x2 | 100x2                         | 125x2 | 50x3       | 60x3 | 71x3              | 50x4          | 60x4 |
|                           | Distribution Pipe | -                     | _    | _    | -    | -     | -     | -     | -   | 1   | N        | MSDD-50TR2-E |      |      | MSDD-<br>50WR2-E MSDT-111R3-E |       |            | R3-E | MSDF-<br>1111R2-E |               |      |



#### PLA-M EA Indoor Unit Combinations Indoor unit combinations shown below are possible.

|                                  |                   | Outdoor Unit Capacity |      |      |      |       |       |       |     |     |          |              |      |                  |       |              |            |      |                   |               |      |
|----------------------------------|-------------------|-----------------------|------|------|------|-------|-------|-------|-----|-----|----------|--------------|------|------------------|-------|--------------|------------|------|-------------------|---------------|------|
| Indoor                           | Unit Combination  | For Single            |      |      |      |       |       |       |     |     | For Twin |              |      |                  |       |              | For Triple |      |                   | For Quadruple |      |
|                                  |                   |                       |      | 60   | 71   | 100   | 125   | 140   | 200 | 250 | 71       | 100          | 125  | 140              | 200   | 250          | 140        | 200  | 250               | 200           | 250  |
| Standard Inverter (SUZ & PUHZ-P) |                   | 35x1                  | 50x1 | 60x1 | 71x1 | 100x1 | 125x1 | 140x1 | -   | -   | -        | 50x2         | 60x2 | 71x2             | 100x2 | 125x2        | 50x3       | 60x3 | 71x3              | 50x4          | 60x4 |
|                                  | Distribution Pipe | -                     | -    | -    | -    | _     | _     | -     | -   | -   | -        | MSDD-50TR2-E |      | MSDD-<br>50WR2-E |       | MSDT-111R3-E |            |      | MSDF-<br>1111R2-E |               |      |























































|             |   |                                 |                 | Optional  | Optional        | Optional        | Opt              | ona              | Оримпи                  |                            |                  |                 |            |  |  |
|-------------|---|---------------------------------|-----------------|---|-----------------|-----------------|------------------|------------------|-------------------------|----------------------------|------------------|-----------------|------------|--|--|
| Гуре        |   |                                 |                 | Inverter Heat Pump                                |                 |                 |                  |                  |                         |                            |                  |                 |            |  |  |
| ndoor Ur    | nit   |                                 |                 | PLA-<br>ZM35EA                                    | PLA-<br>ZM50EA  | PLA-<br>ZM60EA  | PLA-<br>ZM71EA   | PLA-ZN           | PLA-ZM100EA PLA-ZM125EA |                            | /125EA           | PLA-ZM140EA     |            |  |  |
| utdoor      | Unit  |                                 | PUZ-<br>ZM35VKA | PUZ-<br>ZM50VKA                                   | PUZ-<br>ZM60VHA | PUZ-<br>ZM71VHA | PUZ-<br>ZM100VKA | PUZ-<br>ZM100YKA | PUZ-<br>ZM125VKA        | PUZ-<br>ZM125YKA           | PUZ-<br>ZM140VKA | PUZ-<br>ZM140YI |            |  |  |
| efrigera    | nt  |                                 |                 |   |                 |                 |                  | R3               | 2*1                     |                            |                  |                 |            |  |  |
| ower        | Source  |                                 |                 | Outdoor power supply                              |                 |                 |                  |                  |                         |                            |                  |                 |            |  |  |
| upply       | Outdoor (V/Phase                                  | se/Hz)                          |                 | VKA • VHA:230 / Single / 50, YKA:400 / Three / 50 |                 |                 |                  |                  |                         |                            |                  |                 |            |  |  |
| Cooling     | Capacity  | Rated                           | kW              | 3.6   | 5.0             | 6.1             | 7.1              | 9.5              | 9.5                     | 12.5                       | 12.5             | 13.4            | 13.4       |  |  |
|             |   | Min - Max                       | kW              | 1.6 - 4.5   | 2.3 - 5.6       | 2.7 - 6.5       | 3.3 - 8.1        | 4.9 - 11.4       | 4.9 - 11.4              | 5.5 - 14.0                 | 5.5 - 14.0       | 6.2 - 15.0      | 6.2 - 15   |  |  |
|             | Total Input                                       | Rated                           | kW              | 0.705   | 1.106           | 1.452           | 1.651            | 2.065            | 2.065                   | 3.378                      | 3.378            | 3.722           | 3.722      |  |  |
|             | EER   |                                 |                 | 5.10  | 4.52            | 4.20            | 4.30             | 4.60             | 4.60                    | 3.70                       | 3.70             | 3.60            | 3.60       |  |  |
|             |   | EEL Rank                        |                 | -   | -               | -               | -                | -                | -                       | -                          | -                | _               | _          |  |  |
|             | Design Load                                       |                                 | kW              | 3.6   | 5.0             | 6.1             | 7.1              | 9.5              | 9.5                     | -                          | -                | _               | _          |  |  |
|             | Annual Electricity                                | Consumption*2                   | kWh/a           |   | 230             | 296             | 327              | 432              | 443                     | -                          | -                | -               | -          |  |  |
|             | SEER*4  |                                 |                 | 7.5   | 7.6             | 7.2             | 7.6              | 7.7              | 7.5                     | -                          | -                | -               | -          |  |  |
|             |   | Energy Efficiency Class         |                 | Α++   | A++             | A++             | A++              | A++              | A++                     | -                          | -                |                 | -          |  |  |
| Heating     | Capacity  | Rated                           | kW              | 4.1   | 6.0             | 7.0             | 8.0              | 11.2             | 11.2                    | 14.0                       | 14.0             | 16.0            | 16.0       |  |  |
| verage      |   | Min - Max                       | kW              | 1.6 - 5.2   | 2.5 - 7.3       | 2.8 - 8.2       | 3.5 - 10.2       | 4.5 - 14.0       | 4.5 - 14.0              | 5.0 - 16.0                 | 5.0 - 16.0       | 5.7 - 18.0      | 5.7 - 18   |  |  |
| eason)      | Total Input                                       | Rated                           | kW              | 0.820   | 1.363           | 1.707           | 1.818            | 2.604            | 2.604                   | 3.674                      | 3.674            | 4.312           | 4.312      |  |  |
|             | COP   |                                 |                 | 5.00  | 4.40            | 4.10            | 4.40             | 4.30             | 4.30                    | 3.81                       | 3.81             | 3.71            | 3.71       |  |  |
|             |   | EEL Rank                        |                 | -   | -               | -               |                  |                  |                         | -                          | -                | -               | -          |  |  |
|             | Design Load                                       |                                 | kW              | 2.5   | 3.8             | 4.4             | 4.7              | 7.8              | 7.8                     | -                          | _                | -               | _          |  |  |
|             | Declared Capacity                                 | at reference design temperature | kW              | 2.5 (-10°C)                                       | 3.8 (-10°C)     | 4.4 (-10°C)     | 4.7 (-10°C)      | 7.8 (-10°C)      | 7.8 (–10°C)             | -                          | -                | -               | -          |  |  |
|             |   | at bivalent temperature         | kW              | 2.5 (-10°C)                                       | 3.8 (-10°C)     | 4.4 (-10°C)     | 4.7 (-10°C)      | 7.8 (-10°C)      | 7.8 (-10°C)             | -                          | -                | -               |            |  |  |
|             |   | at operation limit temperature  | kW              | 2.1 (-11°C)                                       | 3.7 (-11°C)     | 2.8 (-20°C)     | 3.5 (-20°C)      | 5.8 (-20°C)      | 5.8 (-20°C)             | -                          | -                | -               | _          |  |  |
|             | Back Up Heating C                                 |                                 | kW              | 0   | 0               | 0               | 0                | 0                | 0                       | -                          | -                | -               |            |  |  |
|             | Annual Electricity                                | Consumption*2                   | kWh/a           |   | 1083            | 1339            | 1370             | 2277             | 2277                    | -                          | -                | -               | -          |  |  |
|             | SCOP*4  | F F(f) 01                       |                 | 4.7   | 4.9             | 4.6             | 4.8              | 4.8              | 4.8                     | -                          | -                | -               | -          |  |  |
|             |   | Energy Efficiency Class         |                 | A++   | A++             | A++             | A++              | A++              | A++                     | -                          | -                | -               | -          |  |  |
|             | g Current (max)                                   | In I                            | A               | 13.2  | 13.2            | 19.2            | 19.3             | 27.0             | 8.5                     | 27.0                       | 10.0             | 28.7            | 13.7       |  |  |
| door<br>nit | Input   | Rated                           | kW              | 0.03  | 0.03            | 0.03            | 0.05<br>0.34     | 0.07<br>0.47     | 0.07<br>0.47            | 0.08                       | 0.08             | 0.10            | 0.10       |  |  |
| III C       | Operating Current                                 |                                 | A               |   | 0.22            | 0.22            | 0.34             | 0.47             |                         | 0.52<br>0 - 840 <40 - 95   |                  | 0.66            | 0.66       |  |  |
|             | Dimensions <panel> Weight <panel></panel></panel> | IH × W × D                      | ka              | 258 - 840 - 840 <40 - 950 - 950><br>21 <5>        |                 |                 | 24 <5>           | 26 <5>           | 298 - 84                | 0 - 840 <40 - 95<br>26 <5> | 26 < 5>          | 26 <5>          | 26 <5>     |  |  |
|             | Air Volume [Lo-Mi2                                | N 4:4   LE1                     | m³/min          | 11 10 15 10                                       | 21 <5>          | 10 14 10 10     | 17-19-21-23      | 20 < 5>          | 20 < 5>                 | 20 < 5>                    | 20 < 0 >         | 24-26-29-32     | 20 < 32    |  |  |
|             | Sound Level (SPL)                                 |                                 | dB(A)           |   |                 |                 | 28-30-33-36      |                  | 31-34-37-40             |                            | 33-36-39-41      |                 |            |  |  |
|             | Sound Level (SPL)                                 |                                 | dB(A)           | 51  | 54              | 54              | 57               | 61               | 61                      | 62                         | 62               | 65              | 65         |  |  |
| utdoor      |   | H×W×D                           | mm              | 630 - 80  |                 |                 | - 330 (+25)      | 01               | 01                      |                            | 0 - 330 (+40)    | 00              | 05         |  |  |
| nit         | Weight  | III V V X D                     | kg              | 46  | 46              | 70              | 70               | 116              | 123                     | 1,338 - 1,05               | 125              | 118             | 131        |  |  |
|             | Air Volume  | Cooling                         | m³/min          | 45  | 45              | 55              | 55               | 110              | 110                     | 120                        | 120              | 120             | 120        |  |  |
|             | All Volume  | Heating                         | m³/min          | 45  | 45              | 55              | 55               | 110              | 110                     | 120                        | 120              | 120             | 120        |  |  |
|             | Sound Level (SPL)                                 | Cooling                         | dB(A)           | 44  | 45              | 47              | 47               | 49               | 49                      | 50                         | 50               | 50              | 50         |  |  |
|             | Country Level (OF L)                              | Heating                         | dB(A)           | 46  | 46              | 49              | 49               | 51               | 51                      | 52                         | 52               | 52              | 52         |  |  |
|             | Sound Level (PWL)                                 |                                 | dB(A)           | 65  | 65              | 67              | 67               | 69               | 69                      | 70                         | 70               | 70              | 70         |  |  |
|             | Operating Current                                 |                                 | A               | 13.0  | 13.0            | 19.0            | 19.0             | 26.5             | 8.0                     | 26.5                       | 9.5              | 28.0            | 13.0       |  |  |
|             | Breaker Size                                      |                                 | A               | 16  | 16              | 25              | 25               | 32               | 16                      | 32                         | 16               | 40              | 16         |  |  |
|             | Diameter  | Liquid / Gas                    | mm              | 6.35  |                 | 9.52 / 15.88    | 9.52 / 15.88     | 9.52 / 15.88     | 9.52 / 15.88            | 9.52 / 15.88               | 9.52 / 15.88     | 9.52 / 15.88    | 9.52 / 15. |  |  |
|             | Max. Length                                       | Out-In                          | m               | 50  | 50              | 55              | 55               | 100              | 100                     | 100                        | 100              | 100             | 100        |  |  |
|             | Max. Height                                       | Out-In                          | m               | 30  | 30              | 30              | 30               | 30               | 30                      | 30                         | 30               | 30              | 30         |  |  |
|             | ed Operating Range                                | Cooling*3                       | °C              | -15 ~ +46   | -15 ~ +46       | -15 ~ +46       | -15 ~ +46        | -15 ~ +46        | -15 ~ +46               | -15 ~ +46                  | -15 ~ +46        | -15 ~ +46       | -15 ~ +4   |  |  |
| Outdoorl    |   | Heating                         | °C              | -11 ~ +21   | -11 ~ +21       | -20 ~ +21       | -20 ~ +21        | -20 ~ +21        | -20 ~ +21               | -20 ~ +21                  | -20 ~ +21        | -20 ~ +21       | -20 ~ +2   |  |  |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 Optional air protection guide is required where ambient temperature is lower than -5°C.

\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.



















































































| уре          |   |                                 |         |                           |                           |                           |               | Inverter F      | leat Pump       |                 |                 |                 |                 |  |  |
|--------------|---|---------------------------------|---------|---------------------------|---------------------------|---------------------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|
| ndoor Ur     | nit   |                                 |         | PLA-<br>M35EA             | PLA-<br>M50EA             | PLA-<br>M60EA             | PLA-<br>M71EA | PLA-M100EA      |                 | PLA-M125EA      |                 | PLA-M140EA      |                 |  |  |
| Outdoor Unit |   |                                 |         | SUZ-<br>M35VA             | SUZ-<br>M50VA             | SUZ-<br>M60VA             | SUZ-<br>M71VA | PUZ-<br>M100VKA | PUZ-<br>M100YKA | PUZ-<br>M125VKA | PUZ-<br>M125YKA | PUZ-<br>M140VKA | PUZ-<br>M140YKA |  |  |
| Refrigerant  |   |                                 |         |                           | R32*1                     |                           |               |                 |                 |                 |                 |                 |                 |  |  |
| ower         | Source                                      |                                 |         | Outdoor power supply      |                           |                           |               |                 |                 |                 |                 |                 |                 |  |  |
|              | Outdoor (V/Phase                            | /Hz)                            |         |                           |                           |                           |               |                 |                 |                 |                 |                 |                 |  |  |
| Cooling      | Capacity                                    | Rated                           | kW      | 3.6                       | 5.5                       | 6.1                       | 7.1           | 9.5             | 0, YKA:400 / Th | 12.1            | 12.1            | 13.4            | 13.4            |  |  |
|              | Capacity                                    | Min - Max                       | kW      | 0.8 - 3.9                 | 1.2 - 5.6                 | 1.6 - 6.3                 | 2.2 - 8.1     | 4.0 - 10.6      | 4.0 - 10.6      | 5.8 - 13.0      | 5.8 - 13.0      | 5.8 - 14.1      | 5.8 - 14.       |  |  |
|              | Total Input                                 | Rated                           | kW      | 0.90                      | 1.61                      | 1.84                      | 1.91          | 2.71            | 2.71            | 4.01            | 4.01            | 4.96            | 4.96            |  |  |
|              | EER   | Inateu                          | NVV.    | 4.00                      | 3.40                      | 3.30                      | 3.70          | 3.50            | 3.50            | 3.01            | 3.01            | 2.70            | 2.70            |  |  |
|              | LLIN  | EEL Rank                        |         | 4.00                      | 3.40                      | 3.30                      | 3.70          | - 3.30          | 3.30            | 3.01            | 3.01            | 2.70            |                 |  |  |
|              | Design Load                                 | EEL NAIIK                       | kW      | 3.6                       | 5.5                       | 6.1                       | 7.1           | 9.5             | 9.5             | 12.1            | 12.1            | 13.4            | 13.4            |  |  |
|              | Annual Electricity                          | Consumption*2                   | kWh/a   | 170                       | 285                       | 320                       | 331           | 474             | 474             | 12.1            | 12.1            | -               | 15.4            |  |  |
|              | SEER*4                                      | CONSUMPLION                     | LVVII/a | 7.4                       | 6.7                       | 6.6                       | 7.5           | 7.0             | 7.0             |                 | _               | _               |                 |  |  |
|              | JLLN  | Energy Efficiency Class         |         | Λ++                       | Δ++                       | δ.6<br>A++                | 7.5<br>A++    | 7.0<br>A++      | 7.0<br>A++      | _               | _               | _               |                 |  |  |
| eating       | Capacity                                    | Rated                           | kW      | 4.1                       | 6.0                       | 7.0                       | 8.0           | 11.2            | 11.2            | 13.5            | 13.5            | 15.0            | 15.0            |  |  |
| Average      | Capacity                                    | Min - Max                       | kW      | 1.0 - 5.0                 | 1.5 - 7.2                 | 1.6 - 8.0                 | 2.0 - 10.2    | 2.8 - 12.5      | 2.8 - 12.5      | 4.1 - 15.0      | 4.1 - 15.0      | 4.2 - 15.8      | 4.2 - 15.       |  |  |
| eason)       | Total Input                                 | Rated                           | kW      | 0.97                      | 1.73                      | 1.84                      | 2.21          | 3.01            | 3.01            | 3.63            | 3.63            | 4.39            | 4.39            |  |  |
| ocusoii,     | COP   | Inateu                          | NVV.    | 4.20                      | 3.46                      | 3.80                      | 3.61          | 3.71            | 3.71            | 3.71            | 3.71            | 3.41            | 3.41            |  |  |
|              |   | EEL Rank                        |         | 4.20                      | 3.40                      | 3.00                      | - 3.01        | 5.71            | - 3.71          | 5.71            | 3.71            | - 5.41          | - 0.41          |  |  |
|              | Design Load                                 | EEL NAIIK                       | kW      | 2.6                       | 4.3                       | 4.6                       | 5.8           | 8.0             | 8.0             | 8.5             | 8.5             | 9.4             | 9.4             |  |  |
|              |   | at reference design temperature | kW      | 2.3 (-10°C)               | 3.8 (–10°C)               | 4.1 (–10°C)               | 5.2 (-10°C)   | 6.0 (–10°C)     | 6.0 (-10°C)     | 8.5 (–10°C)     | 8.5 (–10°C)     | 9.4 (–10°C)     | 9.4 (–10°       |  |  |
|              | Deciared Capacity                           | at bivalent temperature         | kW      | 2.3 (-10°C)               | 3.8 (-10°C)<br>3.8 (-7°C) | 4.1 (–10°C)<br>4.1 (–7°C) | 5.2 (-7°C)    | 7.0 (–10°C)     | 7.0 (–10°C)     | 8.5 (–10°C)     | 8.5 (-10°C)     | 9.4 (-10°C)     | 9.4 (-10°       |  |  |
|              |   | at operation limit temperature  | kW      | 2.3 (-7 C)<br>2.3 (-10°C) | 3.8 (-10°C)               | 4.1 (–10°C)               | 5.2 (-10°C)   | 4.5 (–15°C)     | 4.5 (–15°C)     | 6.0 (–15°C)     | 6.0 (–15°C)     | 7.0 (–15°C)     | 7.0 (–15°       |  |  |
|              | Back Up Heating C                           |                                 | kW      | 0.3                       | 0.5                       | 0.5                       | 0.6           | 2.0             | 2.0             | 0.0 (=15 C)     | - 0.0 (=15 C)   | 7.0 (=15 C)     | 7.0 (-15        |  |  |
|              | Applied Electricity                         | Consumption*2                   | kWh/a   | 774                       | 1456                      | 1458                      | 1796          | 2428            | 2428            | _               | _               | -               |                 |  |  |
|              | Annual Electricity Consumption*2 kWI SCOP*4 |                                 | KVVII/a | 4.7                       | 4.1                       | 4.4                       | 4.5           | 4.6             | 4.6             | _               | _               | _               |                 |  |  |
|              | SCOP  | Energy Efficiency Class         |         | 4.7<br>A++                | 4.1<br>A+                 | 4.4<br>A+                 | 4.5<br>A+     | 4.0<br>A++      | 4.6<br>A++      |                 |                 | _               |                 |  |  |
| novotin      | g Current (max)                             | Ellergy Efficiency Class        | Α       | 8.7                       | 13.7                      | 15.0                      | 15.1          | 20.5            | 12.0            | 27.2            | 12.2            | 30.7            | 12.2            |  |  |
| door         | Input                                       | Rated                           | kW      | 0.03                      | 0.03                      | 0.03                      | 0.04          | 0.07            | 0.07            | 0.10            | 0.10            | 0.10            | 0.10            |  |  |
| nit          | Operating Current                           |                                 | A       | 0.03                      | 0.03                      | 0.03                      | 0.27          | 0.46            | 0.46            | 0.66            | 0.66            | 0.66            | 0.66            |  |  |
|              | Dimensions <panel></panel>                  |                                 | mm      |                           | 258 - 840 - 840           |                           |               | 0.40            |                 | 0 - 840 <40 - 9 |                 | 0.00            | 0.00            |  |  |
|              | Weight <panel></panel>                      | IH X W X D                      | kg      | 19 <5>                    | 19 <5>                    | 21 <5>                    | 21 <5>        | 24 <5>          | 24 <5>          | 26 <5>          | 26 <5>          | 26 <5>          | 26 <5>          |  |  |
|              | Air Volume [Lo-Miz                          | Mil Hil                         | m³/min  |                           | 12 14 16 10               | 12 14 16 10               | 14 17 10 21   | 10 22 26 20     | 10 22 26 20     | 21 25 20 21     | 21 25 20 21     | 24-26-29-32     |                 |  |  |
|              | Sound Level (SPL)                           |                                 | dB(A)   | 26-29-20-21               | 27 20 21 22               | 27 20 21 22               | 29-20-22-24   | 21-24-27-40     | 21-24-27-40     | 22-27-41-44     | 22-27-41-44     | 36-39-42-44     | 26 20 42        |  |  |
|              | Sound Level (PWL                            |                                 | dB(A)   | 51                        | 54                        | 54                        | 56            | 61              | 61              | 65              | 65              | 65              | 65              |  |  |
| utdoor       | Dimensions                                  | H × W × D                       | mm      |                           | 714-800-285               |                           | 40-330        | 01              | 01              |                 | -330 (+40)      | 0.5             | - 00            |  |  |
| nit          | Weight                                      | III A W A D                     | kg      | 35                        | 41                        | 54                        | 55            | 76              | 78              | 84              | 85              | 84              | 85              |  |  |
|              | Air Volume                                  | Cooling                         | m³/min  | 34.3                      | 45.8                      | 50.1                      | 50.1          | 79.0            | 79.0            | 86.0            | 86.0            | 86.0            | 86.0            |  |  |
|              | All voluille                                | Heating                         | m³/min  | 32.7                      | 43.7                      | 50.1                      | 50.1          | 79.0            | 79.0            | 92.0            | 92.0            | 92.0            | 92.0            |  |  |
|              | Sound Level (SPL)                           |                                 | dB(A)   | 48                        | 43.7                      | 49                        | 49            | 51              | 51              | 54              | 54              | 55              | 55              |  |  |
|              | Sound Level (SFL)                           | Heating                         | dB(A)   | 48                        | 48                        | 51                        | 51            | 54              | 54              | 56              | 56              | 57              | 57              |  |  |
|              | Sound Level (PWL)                           |                                 | dB(A)   | 59                        | 64                        | 65                        | 66            | 70              | 70              | 72              | 72              | 73              | 73              |  |  |
|              | Operating Current                           |                                 | A A     | 8.5                       | 13.5                      | 14.8                      | 14.8          | 20.0            | 11.5            | 26.5            | 11.5            | 30.0            | 11.5            |  |  |
|              | Breaker Size                                | (IIIaA)                         | A       | 10                        | 20                        | 20                        | 20            | 32              | 16              | 32              | 16              | 40              | 16              |  |  |
| xt.          | Diameter                                    | Liquid / Gas                    | mm      | 6.35 / 9.52               | 6.35 / 12.7               | 6.35 / 15.88              | 9.52 / 15.88  | 9.52 / 15.88    | 9.52 / 15.88    | 9.52 / 15.88    | 9.52 / 15.88    | 9.52 / 15.88    | 9.52 / 15.8     |  |  |
| χτ.<br>iping | Max. Length                                 | Out-In                          | m       | 20                        | 30                        | 30                        | 30            | 55              | 55              | 65              | 65              | 65              | 65              |  |  |
|              | Max. Height                                 | Out-In                          | m       | 12                        | 30                        | 30                        | 30            | 30              | 30              | 30              | 30              | 30              | 30              |  |  |
|              |   | Cli+3                           | °C      | 10 .46                    | 30                        | 30                        | 15 .46        | 3U<br>1E . 46   | 15 . 16         | 3U<br>1E . 46   | 15 .46          | 15 . 16         | 15 . 4          |  |  |























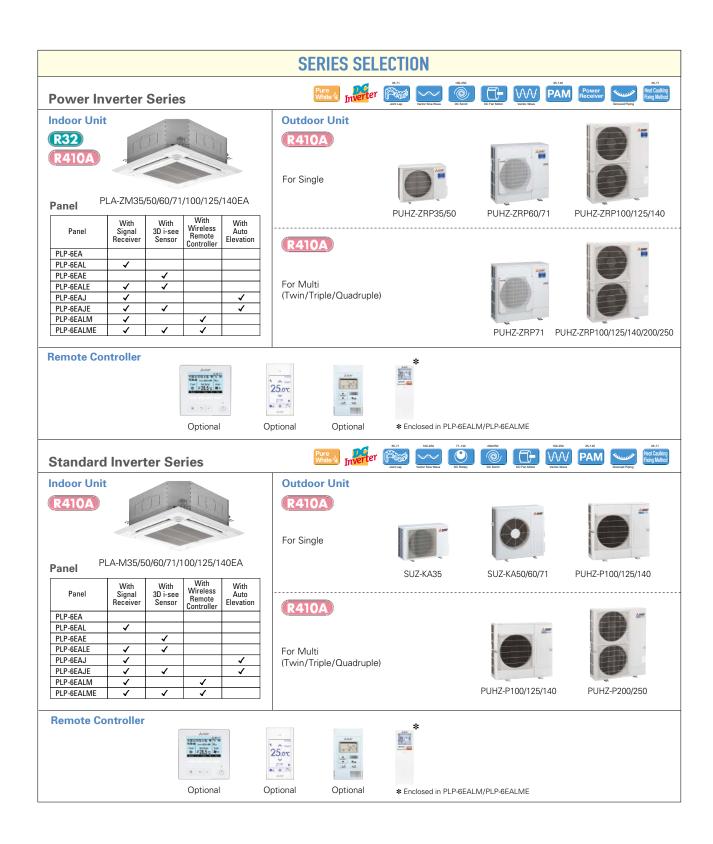






| IVI SERIES             | (e)  | 60-140V/200/250<br>Ampere  |  | Group                               |                                       |                               |  |   |  |  |   |   |  |  |
|------------------------|--|--|--|-------------------------------------|---------------------------------------|-------------------------------|--|---|--|--|---|---|--|--|
| NVFRTFR '              |  |  |  |                                     |                                       | COMPO Wi-                     |  | Wiring  | Drain Pum  | n Flore  | Fail  | UPA   |  |  |
|                        | Silent &   | Limit  | Back-up  | Optional                            | M-NET connection                      | COMPO                         |  |   | ift Up Dow   |  | Self Rec  |   |  |  |
|                        |  |  | .,   |                                     |                                       |                               | Inverter H   | leat Pump   |  |  |   |   |  |  |
| ndoor Unit             |  |  |  | PLA- PLA- PLA-<br>M35FA M50EA M60EA |                                       | PLA-<br>M71EA PLA-M100EA      |  | 100EA   | PLA-M125EA   |  | PLA-M140EA  |   |  |  |
| Jnit                   |  | PUZ-   | PUZ-<br>ZM50VKA  | PUZ-<br>ZM60VHA                     | PUZ-<br>7M71VHA                       | PUZ-<br>ZM100VKA              | PUZ-<br>ZM100VKA   | PUZ-<br>7M125VKΔ  | PUZ-<br>7M125YKA   | PUZ-<br>7Μ140VKΔ   | PUZ<br>ZM140  |   |  |  |
| nt                     |  |  | ZIVIOOVIKA   | ZIVIOUVIOA                          | ZIVIOOVIIA                            | 21417 1 41174                 |  |   | ZIVITZOVICA  | ZIVITZOTICA  | ZIVITTOVICA   | 2101140   |  |  |
| Source                 | ce   |  |  | Outdoor power supply                |                                       |                               |  |   |  |  |   |   |  |  |
| Outdoor (V/Phase/Hz)   |  |  | VKA • VHA: 230 / Single / 50, YKA: 400 / Three / 50  |                                     |                                       |                               |  |   |  |  |   |   |  |  |
| Capacity               | Rated  | kW   | 3.6  | 5.0                                 | 6.1                                   | 7.1                           | 9.5  | 9.5   | 12.5   | 12.5   | 13.4  | 13.   |  |  |
|                        |  | kW   | 1.6 - 4.5  |                                     |                                       | 3.3 - 8.1                     | 4.9 - 11.4   | 4.9 - 11.4  | 5.5 - 14.0   | 5.5 - 14.0   | 6.2 - 15.0  | 6.2 -   |  |  |
|                        | Rated  | kW   | 0.751  | 1.175                               |                                       | 1.716                         | 2.084  | 2.084   | 3.399  | 3.399  | 3.746   | 3.74  |  |  |
| EER                    |  |  | 4.79   | 4.25                                | 4.00                                  | 4.14                          | 4.56   | 4.56  | 3.68   | 3.68   | 3.58  | 3.5   |  |  |
|                        | EEL Rank   |  | -  | -                                   | -                                     | -                             | -  | -   | -  | -  | -   | -   |  |  |
| Design Load            |  |  |  | 5.0                                 | 6.1                                   |                               | 9.5  |   | -  | -  | -   | _   |  |  |
|                        | Consumption*2  | kWh/a  | 172  | 234                                 | 299                                   | 332                           | 435  | 446   | -  | -  | -   | -   |  |  |
| SEER*4                 |  |  |  |                                     |                                       |                               |  |   | -  | -  | -   | -   |  |  |
|                        |  |  |  |                                     |                                       |                               |  |   | -  | _  |   | _   |  |  |
| Capacity               |  |  |  |                                     |                                       |                               |  |   |  |  |   | 16.   |  |  |
|                        |  |  |  |                                     |                                       |                               |  |   |  |  |   | 5.7 -   |  |  |
|                        | Rated  | kVV  |  |                                     |                                       |                               |  |   |  |  |   | 4.36  |  |  |
|                        |  |  |  |                                     |                                       |                               |  |   |  |  |   | 3.6   |  |  |
|                        | EEL Rank   | 11147  |  |                                     |                                       |                               |  |   |  |  |   | -   |  |  |
|                        | L. C.  |  |  |                                     |                                       |                               |  |   |  |  |   | -   |  |  |
| Deciared Capacity      |  |  |  |                                     |                                       |                               |  |   |  |  |   |   |  |  |
|                        |  |  |  |                                     |                                       |                               |  |   |  |  |   | _   |  |  |
|                        |  |  |  |                                     |                                       |                               |  |   |  |  |   | _   |  |  |
|                        |  |  |  |                                     |                                       |                               |  |   |  |  |   |   |  |  |
|                        | Consumption  | KVVII/a  |  |                                     |                                       |                               |  |   |  |  |   | _   |  |  |
|                        | Energy Efficiency Class  |  |  |                                     |                                       |                               |  |   |  |  | _   |   |  |  |
|                        | Energy Emelency Glass  |  |  |                                     |                                       |                               |  |   |  |  | 28.7  | 13.   |  |  |
|                        | Rated  |  |  |                                     |                                       |                               |  |   |  |  |   | 0.1   |  |  |
|                        |  |  |  |                                     |                                       |                               |  |   |  |  |   | 0.6   |  |  |
|                        |  | mm   |  |                                     |                                       |                               |  |   |  |  |   |   |  |  |
| Weight <panel></panel> | •  | kg   | 19 <5>   | 19 <5>                              | 21 <5>                                | 21 <5>                        | 24 <5>   | 24 <5>  | 26 <5>   | 26 <5>   | 26 <5>  | 26 <  |  |  |
| Air Volume [Lo-Mi.     | 2-Mi1-Hi]  | m³/min   | 11-13-15-16  | 12-14-16-18                         | 12-14-16-18                           | 14-17-19-21                   | 19-23-26-29  | 19-23-26-29   | 21-25-28-31  | 21-25-28-31  | 24-26-29-32   | 24-26-  |  |  |
| Sound Level (SPL)      | [Lo-Mi2-Mi1-Hi]  | dB(A)  | 26-28-29-31  | 27-29-31-32                         | 27-29-31-32                           | 28-30-32-34                   | 31-34-37-40  | 31-34-37-40   |  |  | 36-39-42-44   |   |  |  |
|                        | .)   | dB(A)  | 51   | 54                                  | 54                                    | 56                            | 61   | 61  | 65   | 65   | 65  | 65  |  |  |
|                        | $H \times W \times D$  | mm   |  |                                     |                                       |                               |  |   |  |  |   |   |  |  |
|                        |  |  |  |                                     |                                       |                               |  |   |  |  |   | 131   |  |  |
| Air Volume             |  |  |  |                                     |                                       |                               |  |   |  |  |   | 120   |  |  |
|                        |  |  |  |                                     |                                       |                               |  |   |  |  |   | 120   |  |  |
| Sound Level (SPL)      |  |  |  |                                     |                                       |                               |  |   |  |  |   | 50  |  |  |
|                        |  |  |  |                                     |                                       |                               |  |   |  |  |   | 52  |  |  |
|                        |  |  |  |                                     |                                       |                               |  |   |  |  |   | 70  |  |  |
| Operating Current      | (max)  |  |  |                                     |                                       |                               |  |   |  |  |   | 13.   |  |  |
|                        | II   |  |  |                                     |                                       |                               |  |   |  |  |   | 16  |  |  |
|                        |  | _  |  |                                     |                                       |                               |  |   |  |  |   | 9.52 / 100  |  |  |
|                        |  |  |  |                                     |                                       |                               |  |   |  |  |   | 30  |  |  |
|                        | Cooling*3  | °C   | -15 ~ +46  | -15 ~ +46                           | -15 ~ +46                             | -15 ~ +46                     | -15 ~ +46  | -15 ~ +46   | -15 ~ +46  | -15 ~ +46  | -15 ~ +46   | -15 ~   |  |  |
|                        |  | 1 0  | -15 ~ +40  | -10 ~ +40                           | -15 ~ +46<br>-20 ~ +21                | -20 ~ +21                     | -20 ~ +21  | -20 ~ +21   | -20 ~ +21  | -20 ~ +21  | -20 ~ +21   | -20 ~   |  |  |
|                        | Jnit  Source Outdoor (V/Phase Capacity Total Input EER  Design Load Annual Electricity SEER**  Capacity  Total Input COP Design Load Declared Capacity  Back Up Heating ( Annual Electricity SCOP** g Current (max) Input Operating Current Dimensions <panels (pwl)="" air="" ariv="" cpanels="" dimensions="" height<="" length="" level="" max="" olume="" sound="" td="" volume="" weight=""><td>Joint  Source Outdoor (V/Phase/Hz) Capacity Rated Min - Max Total Input Rated EER EEL Rank  Design Load Annual Electricity Consumption*2 SEER**  Energy Efficiency Class Capacity Rated Min - Max Total Input Rated COP EEL Rank  Design Load Declared Capacity Annual Electricity Consumption*2  SEER**  Energy Efficiency Class Capacity Rated Min - Max  Total Input Rated COP  EEL Rank  Design Load Declared Capacity at reference design temperature at obvalent temperature at operation limit temperature at operation limit temperature Annual Electricity Consumption*2  SCOP**  Energy Efficiency Class Gurrent (max) Input Rated Operating Current (max) Dimensions Panel&gt;  H × W × D Weight APanel&gt; Air Volume (Lo-Mi2-Mi1-Hi) Sound Level (PWL) Dimensions H × W × D Weight Air Volume Cooling Heating Sound Level (PWL) Dimensions  Weight Air Volume Cooling Heating Sound Level (PWL) Cooling Heating Sound Level (PWL) Cooling Deparating Current (max) Breaker Size Diameter Liquid / Gas Max. Length Uvl-In Liveling Liquid / Gas</td><td>Source Outdoor (V/Phase/Hz) Capacity Rated kW Min - Max kW Total Input Rated kW/Annual Electricity Consumption*2 kW/Annual Electricity Con</td><td>  M35EA   PUZ-   ZM35VKA    </td><td>  M35EA   M50EA   M50EA   M50EA   M50EA    </td><td>  M35EA   M50EA   M60EA   M60EA    </td><td>  M35EA   M50EA   M50EA   M71EA   PUZ- ZM35VKA   ZM50VKA   ZM50VHA   ZM71VHA    </td><td>  PLA-   PLA-   PLA-   PLA-   PLA-   M60EA   M71EA   PUZ-   PUZ-   PUZ-   PUZ-   PUZ-   ZM30VKA   ZM50VKA   ZM50VKA</td><td>  M35EA   M50EA   M71EA   M71E</td><td>  PLAN   M36EA   M50EA   M50EA</td><td>  PLA   PLA</td><td>  PLA   PLA</td></panels> | Joint  Source Outdoor (V/Phase/Hz) Capacity Rated Min - Max Total Input Rated EER EEL Rank  Design Load Annual Electricity Consumption*2 SEER**  Energy Efficiency Class Capacity Rated Min - Max Total Input Rated COP EEL Rank  Design Load Declared Capacity Annual Electricity Consumption*2  SEER**  Energy Efficiency Class Capacity Rated Min - Max  Total Input Rated COP  EEL Rank  Design Load Declared Capacity at reference design temperature at obvalent temperature at operation limit temperature at operation limit temperature Annual Electricity Consumption*2  SCOP**  Energy Efficiency Class Gurrent (max) Input Rated Operating Current (max) Dimensions Panel>  H × W × D Weight APanel> Air Volume (Lo-Mi2-Mi1-Hi) Sound Level (PWL) Dimensions H × W × D Weight Air Volume Cooling Heating Sound Level (PWL) Dimensions  Weight Air Volume Cooling Heating Sound Level (PWL) Cooling Heating Sound Level (PWL) Cooling Deparating Current (max) Breaker Size Diameter Liquid / Gas Max. Length Uvl-In Liveling Liquid / Gas | Source Outdoor (V/Phase/Hz) Capacity Rated kW Min - Max kW Total Input Rated kW/Annual Electricity Consumption*2 kW/Annual Electricity Con | M35EA   PUZ-   ZM35VKA              | M35EA   M50EA   M50EA   M50EA   M50EA | M35EA   M50EA   M60EA   M60EA | M35EA   M50EA   M50EA   M71EA   PUZ- ZM35VKA   ZM50VKA   ZM50VHA   ZM71VHA | PLA-   PLA-   PLA-   PLA-   PLA-   M60EA   M71EA   PUZ-   PUZ-   PUZ-   PUZ-   PUZ-   ZM30VKA   ZM50VKA   ZM50VKA | M35EA   M50EA   M71EA   M71E | PLAN   M36EA   M50EA   M50EA | PLA   PLA | PLA   PLA |  |  |

<sup>|</sup> Indicated | Conting\*3 | Coling\*3 | Coling\*4 | Coling\*3 | Coling\*



# PLA-ZM/RP EA Indoor Unit Combinations Indoor unit combinations shown below are possible.

|        |                            |      |      |      |      |         |       |       |     | Outd | oor U | nit Cap | pacity |      |       |        |      |         |      |        |         |
|--------|----------------------------|------|------|------|------|---------|-------|-------|-----|------|-------|---------|--------|------|-------|--------|------|---------|------|--------|---------|
| Indoor | Unit Combination           |      |      |      | Fo   | or Sing | jle   |       |     |      |       |         | For    | Twin |       |        | Fo   | or Trip | le   | For Qu | adruple |
|        |                            | 35   | 50   | 60   | 71   | 100     | 125   | 140   | 200 | 250  | 71    | 100     | 125    | 140  | 200   | 250    | 140  | 200     | 250  | 200    | 250     |
| Power  | Inverter (PUHZ-ZRP)        | 35x1 | 50x1 | 60x1 | 71x1 | 100x1   | 125x1 | 140x1 | -   | -    | 35x2  | 50x2    | 60x2   | 71x2 | 100x2 | 125x2  | 50x3 | 60x3    | 71x3 | 50x4   | 60x4    |
|        | Distribution Pipe          | -    | -    | -    | -    | _       | -     | -     | -   | -    | ١     | ASDD-   | 50TR-  | E    | MSDD- | 50WR-E | MS   | DT-111  | R-E  | MSDF-1 | 1111R-E |
| Standa | rd Inverter (SUZ & PUHZ-P) | 35x1 | 50x1 | 60x1 | 71x1 | 100x1   | 125x1 | 140×1 | -   | -    | -     | 50x2    | 60x2   | 71x2 | 100x2 | 125x2  | 50x3 | 60x3    | 71x3 | 50x4   | 60x4    |
|        | Distribution Pipe          | -    | -    | -    | -    | -       | -     | -     | -   | _    | -     | MSI     | DD-50  | ΓR-E | MSDD- | 50WR-E | MS   | DT-111  | R-E  | MSDF-1 | 1111R-E |

# PLA-ZM SERIES



























|          | 60-140V/200 |
|----------|-------------|
| (3)      | Ampe        |
| Silent & | Limi        |

























|           |                            |                                 |            | Optional           | Optional           | Optional           | Opti               | onal                | Optional            |                     |                     |                     |                     |
|-----------|----------------------------|---------------------------------|------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Type      |                            |                                 |            |                    |                    |                    |                    | Inverter F          | leat Pump           |                     |                     |                     |                     |
| Indoor U  | nit                        |                                 |            | PLA-<br>ZM35EA     | PLA-<br>ZM50EA     | PLA-<br>ZM60EA     | PLA-<br>ZM71EA     | PLA-ZN              | /100EA              | PLA-ZN              | И125EA              | PLA-ZN              | /140EA              |
| Outdoor   | Unit                       |                                 |            | PUHZ-<br>ZRP35VKA2 | PUHZ-<br>ZRP50VKA2 | PUHZ-<br>ZRP60VHA2 | PUHZ-<br>ZRP71VHA2 | PUHZ-<br>ZRP100VKA3 | PUHZ-<br>ZRP100YKA3 | PUHZ-<br>ZRP125VKA3 | PUHZ-<br>ZRP125YKA3 | PUHZ-<br>ZRP140VKA3 | PUHZ-<br>ZRP140YKA3 |
| Refrigera | int                        |                                 |            |                    |                    |                    | 1                  | R41                 | 0A*1                |                     |                     |                     |                     |
| Power     | Source                     |                                 |            |                    |                    |                    |                    | Outdoor po          | wer supply          |                     |                     |                     |                     |
| Supply    | Outdoor (V/Phase           | /Hz)                            |            |                    |                    |                    | VKA • VH           | A:230 / Single /    |                     | Three / 50          |                     |                     |                     |
| Cooling   | Capacity                   | Rated                           | kW         | 3.6                | 5.0                | 6.1                | 7.1                | 9.5                 | 9.5                 | 12.5                | 12.5                | 13.4                | 13.4                |
| cooming   | Cupucity                   | Min - Max                       | kW         | 1.6 - 4.5          | 2.3 - 5.6          | 2.7 - 6.5          | 3.3 - 8.1          | 4.9 - 11.4          | 4.9 - 11.4          | 5.5 - 14.0          | 5.5 - 14.0          | 6.2 - 15.0          | 6.2 - 15.0          |
|           | Total Input                | Rated                           | kW         | 0.78               | 1.33               | 1.66               | 1.79               | 2.20                | 2.20                | 3.84                | 3.84                | 4.36                | 4.36                |
|           | EER                        | riatoa                          |            | -                  | _                  | -                  | -                  | _                   |                     | 3.25                | 3.25                | 3.07                | 3.07                |
|           |                            | EEL Rank                        |            | _                  | _                  | _                  | -                  | -                   | _                   | -                   | -                   | -                   | -                   |
|           | Design Load                |                                 | l kW       | 3.6                | 5.0                | 6.1                | 7.1                | 9.5                 | 9.5                 | -                   | _                   | _                   | -                   |
|           | Annual Electricity         | Consumption*2                   | kWh/a      | 170                | 253                | 318                | 336                | 461                 | 472                 | _                   | _                   | -                   | -                   |
|           | SEER*4                     |                                 | 1          | 7.4                | 6.9                | 6.7                | 7.4                | 7.2                 | 7.0                 | -                   | -                   | -                   | -                   |
|           |                            | <b>Energy Efficiency Class</b>  |            | A++                | Δ++                | Δ++                | A++                | A++                 | A++                 | -                   | _                   | _                   | _                   |
| Heating   | Capacity                   | Rated                           | l kW       | 4.1                | 6.0                | 7.0                | 8.0                | 11.2                | 11.2                | 14.0                | 14.0                | 16.0                | 16.0                |
| (Average  |                            | Min - Max                       | kW         | 1.6 - 5.2          | 2.5 - 7.3          | 2.8 - 8.2          | 3.5 - 10.2         | 4.5 - 14.0          | 4.5 - 14.0          | 5.0 - 16.0          | 5.0 - 16.0          | 5.7 - 18.0          | 5.7 - 18.0          |
| Season)   | Total Input                | Rated                           | kW         | 0.85               | 1.55               | 1.89               | 1.90               | 2.60                | 2.60                | 3.67                | 3.67                | 4.84                | 4.84                |
|           | COP                        | Triatoa                         | 1 1000     | -                  | -                  | -                  | -                  | -                   | -                   | 3.81                | 3.81                | 3.30                | 3.30                |
|           |                            | EEL Rank                        |            | _                  | _                  | _                  | _                  | _                   |                     | -                   | -                   | -                   | -                   |
|           | Design Load                |                                 | I kW       | 2.5                | 3.8                | 4.4                | 4.7                | 7.8                 | 7.8                 | _                   | _                   | _                   | _                   |
|           |                            | at reference design temperature | kW         | 2.5 (-10°C)        | 3.8 (-10°C)        | 4.4 (-10°C)        | 4.7 (-10°C)        | 7.8 (-10°C)         | 7.8 (-10°C)         | -                   | _                   |                     | _                   |
|           | Dooial ou oupdoity         | at bivalent temperature         | kW         | 2.5 (-10°C)        | 3.8 (-10°C)        | 4.4 (-10°C)        | 4.7 (-10°C)        | 7.8 (-10°C)         | 7.8 (-10°C)         | _                   | _                   | _                   | _                   |
|           |                            | at operation limit temperature  | kW         | 2.1 (-11°C)        | 3.7 (-11°C)        | 2.8 (-20°C)        | 3.5 (-20°C)        | 5.8 (-20°C)         | 5.8 (-20°C)         | -                   |                     | _                   | _                   |
|           | Back Up Heating (          |                                 | kW         | 0                  | 0                  | 0                  | 0                  | 0                   | 0                   | _                   | _                   | _                   | _                   |
|           | Annual Electricity         |                                 | kWh/a      | 714                | 1109               | 1337               | 1342               | 2229                | 2229                | -                   | _                   | _                   | _                   |
|           | SCOP*4                     | Consumption                     | 1100011/10 | 4.9                | 4.8                | 4.6                | 4.9                | 4.9                 | 4.9                 | _                   | _                   | _                   | _                   |
|           |                            | Energy Efficiency Class         |            | A++                | A++                | A++                | A++                | A++                 | A++                 | _                   | _                   | _                   | _                   |
| Operatin  | g Current (max)            |                                 | ΙΑ         | 13.2               | 13.2               | 19.2               | 19.3               | 27.0                | 8.5                 | 27.0                | 10.0                | 28.7                | 13.7                |
| Indoor    | Input                      | Rated                           | kW         | 0.03               | 0.03               | 0.03               | 0.05               | 0.07                | 0.07                | 0.08                | 0.08                | 0.10                | 0.10                |
| Unit      | Operating Current          |                                 | A          | 0.21               | 0.22               | 0.22               | 0.34               | 0.47                | 0.47                | 0.52                | 0.52                | 0.66                | 0.66                |
|           | Dimensions <panel></panel> |                                 | mm         | 258 - 84           | 0 - 840 <40 - 9    | 50 - 950>          |                    |                     | 298 - 84            | 0 - 840 <40 - 9     | 50 - 950>           |                     |                     |
|           | Weight <panel></panel>     |                                 | ka         |                    | 21 <5>             |                    | 24 <5>             | 26 <5>              | 26 <5>              | 26 <5>              | 26 <5>              | 26 <5>              | 26 <5>              |
|           | Air Volume [Lo-Miz         | 2-Mi1-Hil                       | m³/min     | 11-13-15-16        | 12-14-16-18        | 12-14-16-18        | 17-19-21-23        | 19-22-25-28         | 19-22-25-28         | 21-24-26-29         | 21-24-26-29         | 24-26-29-32         | 24-26-29-32         |
|           | Sound Level (SPL)          |                                 | dB(A)      | 26-28-29-31        | 27-29-31-32        | 27-29-31-32        | 28-30-33-36        | 31-34-37-40         | 31-34-37-40         | 33-36-39-41         | 33-36-39-41         | 36-39-42-44         | 36-39-42-44         |
|           | Sound Level (PWL           | )                               | dB(A)      | 51                 | 54                 | 54                 | 57                 | 61                  | 61                  | 62                  | 62                  | 65                  | 65                  |
| Outdoor   | Dimensions                 | H×W×D                           | mm         | 630 - 80           | 9 - 300            | 943 - 950          | - 330 (+30)        |                     |                     | 1338 - 1050         | ) - 330 (+40)       |                     |                     |
| Unit      | Weight                     |                                 | kg         | 43                 | 46                 | 70                 | 70                 | 116                 | 123                 | 116                 | 125                 | 118                 | 131                 |
|           | Air Volume                 | Cooling                         | m³/min     | 45                 | 45                 | 55                 | 55                 | 110                 | 110                 | 120                 | 120                 | 120                 | 120                 |
|           |                            | Heating                         | m³/min     | 45                 | 45                 | 55                 | 55                 | 110                 | 110                 | 120                 | 120                 | 120                 | 120                 |
|           | Sound Level (SPL)          | Cooling                         | dB(A)      | 44                 | 44                 | 47                 | 47                 | 49                  | 49                  | 50                  | 50                  | 50                  | 50                  |
|           |                            | Heating                         | dB(A)      | 46                 | 46                 | 48                 | 48                 | 51                  | 51                  | 52                  | 52                  | 52                  | 52                  |
|           | Sound Level (PWL)          | Cooling                         | dB(A)      | 65                 | 65                 | 67                 | 67                 | 69                  | 69                  | 70                  | 70                  | 70                  | 70                  |
|           | Operating Current          | (max)                           | A          | 13.0               | 13.0               | 19.0               | 19.0               | 26.5                | 8.0                 | 26.5                | 9.5                 | 28.0                | 13.0                |
|           | Breaker Size               |                                 | Α          | 16                 | 16                 | 25                 | 25                 | 32                  | 16                  | 32                  | 16                  | 40                  | 16                  |
| Ext.      | Diameter                   | Liquid / Gas                    | mm         | 6.35 / 12.7        | 6.35 / 12.7        | 9.52 / 15.88       | 9.52 / 15.88       | 9.52 / 15.88        | 9.52 / 15.88        | 9.52 / 15.88        | 9.52 / 15.88        | 9.52 / 15.88        | 9.52 / 15.88        |
| Piping    | Max. Length                | Out-In                          | m          | 50                 | 50                 | 50                 | 50                 | 75                  | 75                  | 75                  | 75                  | 75                  | 75                  |
|           | Max. Height                | Out-In                          | m          | 30                 | 30                 | 30                 | 30                 | 30                  | 30                  | 30                  | 30                  | 30                  | 30                  |
|           | ed Operating Range         | Cooling*3                       | °C         | -15 ~ +46          | -15 ~ +46          | -15 ~ +46          | -15 ~ +46          | -15 ~ +46           | -15 ~ +46           | -15 ~ +46           | -15 ~ +46           | -15 ~ +46           | -15 ~ +46           |
| [Outdoor  | ]                          | Heating                         | °C         | -11 ~ +21          | -11 ~ +21          | -20 ~ +21          | -20 ~ +21          | -20 ~ +21           | -20 ~ +21           | -20 ~ +21           | -20 ~ +21           | -20 ~ +21           | -20 ~ +21           |
|           |                            |                                 | •          |                    |                    | •                  |                    |                     | •                   |                     |                     |                     |                     |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of COz, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 Optional air protection guide is required where ambient temperature is lower than –5°C.

\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.



























































|                     |   |                                 | Optional | Optional               | Optional                   | Optional                  | Opi                    | ona                    |                        | Optional                   |                        |                        |                        |
|---------------------|---|---------------------------------|----------|------------------------|----------------------------|---------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------|------------------------|------------------------|
| Туре                |   |                                 |          |                        |                            |                           |                        | Inverter H             | eat Pump               |                            |                        |                        |                        |
| Indoor U            | nit   |                                 |          | PLA-                   | PLA-                       | PLA-                      | PLA-                   |                        |                        |                            |                        | DI                     |                        |
|                     |   |                                 |          | M35EA                  | M50EA                      | M60EA                     | M71EA                  | PLA-M                  |                        |                            | 1125EA                 | PLA-M                  |                        |
| Outdoor             | Unit  |                                 |          | SUZ-<br>KA35VA6        | SUZ-<br>KA50VA6            | SUZ-<br>KA60VA6           | SUZ-<br>KA71VA6        | PUHZ-<br>P100VKA       | PUHZ-<br>P100YKA       | PUHZ-<br>P125VKA           | PUHZ-<br>P125YKA       | PUHZ-<br>P140VKA       | PUHZ-<br>P140YKA       |
| Refrigera           | nt  |                                 |          |                        |                            |                           |                        | R410                   | 0A*1                   |                            |                        |                        |                        |
| Power               | Source  |                                 |          |                        |                            |                           |                        | Outdoor po             |                        |                            |                        |                        |                        |
|                     | Outdoor (V/Phase                                  | /Hz)                            |          |                        |                            |                           | VA • VKA               | A:230 / Single / 5     |                        | ree / 50                   |                        |                        |                        |
| Cooling             | Capacity  | Rated                           | kW       | 3.6                    | 5.5                        | 5.7                       | 7.1                    | 9.4                    | 9.4                    | 12.1                       | 12.1                   | 13.6                   | 13.6                   |
| ,                   | oupuonty  | Min - Max                       | kW       | 1.4 - 3.9              | 2.3 - 5.6                  | 2.3 - 6.3                 | 2.8 - 8.1              | 3.7 - 10.6             | 3.7 - 10.6             | 5.6 - 13.0                 | 5.6 - 13.0             | 5.8 - 14.1             | 5.8 - 14.1             |
|                     | Total Input                                       | Rated                           | kW       | 1.02                   | 1.61                       | 1.76                      | 2.10                   | 3.18                   | 3.18                   | 4.10                       | 4.10                   | 5.41                   | 5.41                   |
|                     | EER   | 1                               |          | -                      | -                          | -                         | -                      | 2.95                   | 2.95                   | 2.95                       | 2.95                   | 2.51                   | 2.51                   |
|                     |   | EEL Rank                        |          | -                      | -                          | -                         | -                      | _                      | -                      | -                          | -                      | _                      | _                      |
|                     | Design Load                                       |                                 | kW       | 3.6                    | 5.5                        | 5.7                       | 7.1                    | 9.4                    | 9.4                    | _                          | -                      | -                      | -                      |
|                     | Annual Electricity                                | Consumption*2                   | kWh/a    | 181                    | 295                        | 307                       | 400                    | 538                    | 538                    | -                          | -                      | -                      | _                      |
|                     | SEER*4  | •                               |          | 6.9                    | 6.5                        | 6.5                       | 6.2                    | 6.1                    | 6.1                    | -                          | -                      | -                      | -                      |
|                     |   | <b>Energy Efficiency Class</b>  |          | A++                    | A++                        | A++                       | A++                    | A++                    | A++                    | -                          | -                      | -                      | -                      |
| leating             | Capacity  | Rated                           | kW       | 4.1                    | 5.8                        | 6.9                       | 8.0                    | 11.2                   | 11.2                   | 13.5                       | 13.5                   | 15.0                   | 15.0                   |
| Average             |   | Min - Max                       | kW       | 1.7 - 5.0              | 1.7 - 7.2                  | 2.5 - 8.0                 | 2.6 - 10.2             | 2.8 - 12.5             | 2.8 - 12.5             | 4.8 - 15.0                 | 4.8 - 15.0             | 4.9 - 15.8             | 4.9 - 15.8             |
| eason)              | Total Input                                       | Rated                           | kW       | 1.00                   | 1.69                       | 1.97                      | 2.24                   | 3.26                   | 3.26                   | 3.84                       | 3.84                   | 4.67                   | 4.67                   |
|                     | COP   |                                 |          | _                      | -                          | -                         | -                      | 3.43                   | 3.43                   | 3.51                       | 3.51                   | 3.21                   | 3.21                   |
|                     |   | EEL Rank                        |          | -                      | -                          | -                         | -                      | -                      | -                      | -                          | -                      | -                      | -                      |
|                     | Design Load                                       |                                 | kW       | 2.6                    | 4.3                        | 4.6                       | 5.8                    | 8.0                    | 8.0                    | 1                          | -                      | -                      | _                      |
|                     | <b>Declared Capacity</b>                          | at reference design temperature | kW       | 2.3 (-10°C)            | 3.8 (-10°C)                | 4.0 (-10°C)               | 4.7 (-10°C)            | 6.0 (-10°C)            | 6.0 (-10°C)            | -                          | -                      | -                      | -                      |
|                     |   | at bivalent temperature         | kW       | 2.3 (-7°C)             | 3.8 (-7°C)                 | 4.1 (-7°C)                | 5.1 (-7°C)             | 7.0 (-7°C)             | 7.0 (-7°C)             | _                          | -                      | -                      | _                      |
|                     |   | at operation limit temperature  | kW       | 2.3 (-10°C)            | 3.8 (-10°C)                | 4.0 (-10°C)               | 4.7 (-10°C)            | 4.5 (-15°C)            | 4.5 (-15°C)            | -                          | -                      | -                      | -                      |
|                     | Back Up Heating (                                 |                                 | kW       | 0.3                    | 0.5                        | 0.6                       | 1.1                    | 2.0                    | 2.0                    | _                          | -                      | -                      | -                      |
|                     | Annual Electricity                                | Consumption*2                   | kWh/a    | 826                    | 1505                       | 1498                      | 1888                   | 2432                   | 2432                   | -                          | -                      | -                      | -                      |
|                     | SCOP*4  |                                 |          | 4.4                    | 4.0                        | 4.3                       | 4.3                    | 4.6                    | 4.6                    | _                          | -                      | -                      | -                      |
|                     |   | Energy Efficiency Class         |          | A <sup>+</sup>         | A+                         | Α+                        | Α+                     | A++                    | A++                    |                            | -                      |                        |                        |
|                     | g Current (max)                                   | In                              | A        | 8.4                    | 12.2                       | 14.2                      | 16.4                   | 20.5                   | 12.0                   | 27.2                       | 12.2                   | 30.7                   | 12.2                   |
| ndoor<br>Jnit       | Input   | Rated                           | kW       | 0.03                   | 0.03                       | 0.03                      | 0.04                   | 0.07                   | 0.07                   | 0.10                       | 0.10                   | 0.10                   | 0.10<br>0.66           |
| JIIIL               | Operating Current                                 |                                 | Α        | 0.20                   | 0.22                       | 0.24                      | 0.27                   | 0.46                   | 0.46                   | 0.66<br>0 - 840 <40 - 95   | 0.66                   | 0.66                   | 0.66                   |
|                     | Dimensions <panel> Weight <panel></panel></panel> | [H × W × D                      | mm<br>kg | 19 <5>                 | 58 - 840 - 840 <<br>19 <5> | <40 - 950 - 950<br>21 <5> | ><br>21 <5>            | 24 <5>                 | 298 - 84               | 0 - 840 <40 - 95<br>26 <5> | 50 - 950><br>1 26 <5>  | 26 <5>                 | 26 <5>                 |
|                     | Air Volume [Lo-Miz                                | 2 Mil Lii                       | m³/min   |                        |                            | 12-14-16-18               |                        | 19-23-26-29            | 19-23-26-29            | 21-25-28-31                |                        | 24-26-29-32            | 24-26-29-3             |
|                     | Sound Level (SPL)                                 |                                 | dB(A)    |                        |                            |                           | 28-30-32-34            |                        |                        | 33-37-41-44                |                        |                        | 36-39-42-4             |
|                     | Sound Level (PWL                                  |                                 | dB(A)    | 51                     | 54                         | 54                        | 56                     | 61                     | 61                     | 65                         | 65                     | 65                     | 65                     |
| Jutdoor             | Dimensions  | H × W × D                       | mm       | 550 - 800 - 285        |                            | 880 - 840 - 330           |                        | 01                     | . 01                   |                            | 050 - 330              |                        |                        |
| Jnit                | Weight  | 111.011.00                      | kg       | 35                     | 54                         | 50                        | 53                     | 76                     | 78                     | 84                         | 85                     | 84                     | 85                     |
|                     | Air Volume  | Cooling                         | m³/min   | 36.3                   | 44.6                       | 40.9                      | 50.1                   | 79                     | 79                     | 86                         | 86                     | 86                     | 86                     |
|                     |   | Heating                         | m³/min   | 34.8                   | 44.6                       | 49.2                      | 48.2                   | 79                     | 79                     | 92                         | 92                     | 92                     | 92                     |
|                     | Sound Level (SPL)                                 | Cooling                         | dB(A)    | 49                     | 52                         | 55                        | 55                     | 51                     | 51                     | 54                         | 54                     | 56                     | 56                     |
|                     |   | Heating                         | dB(A)    | 50                     | 52                         | 55                        | 55                     | 54                     | 54                     | 56                         | 56                     | 57                     | 57                     |
|                     | Sound Level (PWL)                                 | Cooling                         | dB(A)    | 62                     | 65                         | 65                        | 69                     | 70                     | 70                     | 72                         | 72                     | 75                     | 75                     |
|                     | Operating Current                                 | (max)                           | Α        | 8.2                    | 12.0                       | 14.0                      | 16.1                   | 20                     | 11.5                   | 26.5                       | 11.5                   | 30.0                   | 11.5                   |
|                     | Breaker Size                                      |                                 | А        | 10                     | 20                         | 20                        | 20                     | 32                     | 16                     | 32                         | 16                     | 40                     | 16                     |
| xt.                 | Diameter  | Liquid / Gas                    | mm       | 6.35 / 9.52            | 6.35 / 12.7                | 6.35 / 15.88              |                        | 9.52 / 15.88           | 9.52 / 15.88           | 9.52 / 15.88               |                        | 9.52 / 15.88           | 9.52 / 15.8            |
| Piping              | Max. Length                                       | Out-In                          | m        | 20                     | 30                         | 30                        | 30                     | 50                     | 50                     | 50                         | 50                     | 50                     | 50                     |
|                     | Max. Height                                       | Out-In                          | m        | 12                     | 30                         | 30                        | 30                     | 30                     | 30                     | 30                         | 30                     | 30                     | 30                     |
|                     |   |                                 |          |                        |                            |                           |                        |                        |                        |                            |                        |                        |                        |
| Guarante<br>Outdoor | ed Operating Range                                | Cooling*3<br>Heating            | °C       | -10 ~ +46<br>-10 ~ +24 | -15 ~ +46<br>-10 ~ +24     | -15 ~ +46<br>-10 ~ +24    | -15 ~ +46<br>-10 ~ +24 | -15 ~ +46<br>-15 ~ +21 | -15 ~ +46<br>-15 ~ +21 | -15 ~ +46<br>-15 ~ +21     | -15 ~ +46<br>-15 ~ +21 | -15 ~ +46<br>-15 ~ +21 | -15 ~ +46<br>-15 ~ +21 |

<sup>\*\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

\*\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*\*3 Optional air protection guide is required where ambient temperature is lower than –5°C.

\*\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.



























|        | 60-140V/200/250 |                     |                  |                  |       |                        |     |                |                 |                  |              |                  |                   |                   |  |
|--------|-----------------|---------------------|------------------|------------------|-------|------------------------|-----|----------------|-----------------|------------------|--------------|------------------|-------------------|-------------------|--|
| Silent | Ampere<br>Limit | Rotation<br>Back-up | Group<br>Control | M-NET connection | СОМРО | Wi-Fi ı))<br>Interface | MXZ | Cleaning free, | Wiring<br>Reuse | Drain<br>Lift Up | Pump<br>Down | Flare connection | Self<br>Diagnosis | Failure<br>Recall |  |

| Туре           |                                   |                                 |        |                    |                    |                    |                    | Inverter H       | eat Pump        |                     |                     |                     |                        |
|----------------|-----------------------------------|---------------------------------|--------|--------------------|--------------------|--------------------|--------------------|------------------|-----------------|---------------------|---------------------|---------------------|------------------------|
| Indoor U       | nit                               |                                 |        | PLA-<br>M35EA      | PLA-<br>M50EA      | PLA-<br>M60EA      | PLA-<br>M71EA      | PLA-M            | 1100EA          | PLA-M               | 125EA               | PLA-M               | 140EA                  |
| Outdoor        |                                   |                                 |        | PUHZ-<br>ZRP35VKA2 | PUHZ-<br>ZRP50VKA2 | PUHZ-<br>ZRP60VHA2 | PUHZ-<br>ZRP71VHA2 |                  |                 | PUHZ-<br>ZRP125VKA3 | PUHZ-<br>ZRP125YKA3 | PUHZ-<br>ZRP140VKA3 | PUHZ-<br>ZRP140YKA3    |
| Refrigera      |                                   |                                 |        |                    |                    |                    |                    | R41              |                 |                     |                     |                     |                        |
| Power          | Source                            |                                 |        |                    |                    |                    |                    |                  | wer supply      |                     |                     |                     |                        |
| Supply         | Outdoor (V/Phase                  | /Hz)                            |        |                    |                    |                    | VKA•VH             | A:230 / Single / | 50, YKA:400 / T | hree / 50           |                     |                     |                        |
| Cooling        | Capacity                          | Rated                           | kW     | 3.6                | 5.0                | 6.1                | 7.1                | 9.5              | 9.5             | 12.5                | 12.5                | 13.4                | 13.4                   |
|                |                                   | Min - Max                       | kW     | 1.6 - 4.5          | 2.3 - 5.6          | 2.7 - 6.5          | 3.3 - 8.1          | 4.9 - 11.4       | 4.9 - 11.4      | 5.5 - 14.0          | 5.5 - 14.0          | 6.2 - 15.0          | 6.2 - 15.0             |
|                | Total Input                       | Rated                           | kW     | 0.83               | 1.42               | 1.75               | 1.87               | 2.23             | 2.23            | 3.87                | 3.87                | 4.39                | 4.39                   |
|                | EER                               |                                 |        | -                  | -                  | -                  | -                  | -                | -               | 3.23                | 3.23                | 3.05                | 3.05                   |
|                |                                   | EEL Rank                        |        | -                  | -                  | -                  | -                  | -                | -               |                     | -                   | -                   | -                      |
|                | Design Load                       |                                 | kW     | 3.6                | 5.0                | 6.1                | 7.1                | 9.5              | 9.5             |                     | -                   | -                   | -                      |
|                | Annual Electricity                | Consumption*2                   | kWh/a  | 174                | 258                | 321                | 341                | 465              | 476             | -                   | -                   | -                   | -                      |
|                | SEER*4                            | -                               |        | 7.2                | 6.7                | 6.6                | 7.2                | 7.1              | 6.9             | -                   | -                   | -                   | -                      |
|                |                                   | <b>Energy Efficiency Class</b>  |        | A++                | A++                | A++                | A++                | A++              | A++             | -                   | -                   | -                   | -                      |
| Heating        |                                   | Rated                           | kW     | 4.1                | 6.0                | 7.0                | 8.0                | 11.2             | 11.2            | 14.0                | 14.0                | 16.0                | 16.0                   |
| (Average       |                                   | Min - Max                       | kW     | 1.6 - 5.8          | 2.5 - 7.3          | 2.8 - 8.2          | 3.5 - 10.2         | 4.5 - 14.0       | 4.5 - 14.0      | 5.0 - 16.0          | 5.0 - 16.0          | 5.7 - 18.0          | 5.7 - 18.0             |
| Season)        |                                   | Rated                           | kW     | 0.92               | 1.81               | 2.07               | 2.11               | 2.69             | 2.69            | 3.77                | 3.77                | 4.90                | 4.90                   |
|                | COP                               |                                 |        | -                  | _                  | -                  | -                  | -                | -               | 3.71                | 3.71                | 3.26                | 3.26                   |
|                |                                   | EEL Rank                        |        | -                  | -                  | -                  | -                  | -                | -               | _                   | -                   | -                   | -                      |
|                | Design Load                       |                                 | kW     | 2.5                | 3.8                | 4.4                | 4.7                | 7.8              | 7.8             | _                   | -                   | -                   | -                      |
|                | <b>Declared Capacity</b>          | at reference design temperature | kW     | 2.5 (-10°C)        | 3.8 (-10°C)        | 4.4 (-10°C)        | 4.7 (-10°C)        | 7.8 (-10°C)      | 7.8 (-10°C)     | _                   | -                   | -                   | -                      |
|                |                                   | at bivalent temperature         | kW     | 2.5 (-10°C)        | 3.8 (-10°C)        | 4.4 (-10°C)        | 4.7 (-10°C)        | 7.8 (-10°C)      | 7.8 (-10°C)     | -                   | -                   | -                   | -                      |
|                |                                   | at operation limit temperature  | kW     | 2.1 (-11°C)        | 3.7 (-11°C)        | 2.8 (-20°C)        | 3.5 (-20°C)        | 5.8 (-20°C)      | 5.8 (-20°C)     | -                   | -                   | -                   | -                      |
|                | Back Up Heating C                 |                                 | kW     | 0                  | 0                  | 0                  | 0                  | 0                | 0               | -                   | -                   | -                   | -                      |
|                | Annual Electricity                | Consumption*2                   | kWh/a  | 764                | 1212               | 1418               | 1402               | 2468             | 2468            | _                   | _                   | -                   | -                      |
|                | SCOP*4                            |                                 |        | 4.5                | 4.3                | 4.3                | 4.6                | 4.4              | 4.4             | -                   | -                   | -                   | -                      |
|                |                                   | Energy Efficiency Class         |        | A+                 | A+                 | A+                 | A++                | A+               | A+              | ı                   | -                   | -                   | -                      |
|                | g Current (max)                   |                                 | А      | 13.2               | 13.2               | 19.2               | 19.3               | 27.0             | 8.5             | 27.2                | 10.2                | 28.7                | 13.7                   |
| Indoor         | Input                             | Rated                           | kW     | 0.03               | 0.03               | 0.03               | 0.04               | 0.07             | 0.07            | 0.10                | 0.10                | 0.10                | 0.10                   |
| Unit           | Operating Current                 |                                 | Α      | 0.20               | 0.22               | 0.24               | 0.27               | 0.46             | 0.46            | 0.66                | 0.66                | 0.66                | 0.66                   |
|                | Dimensions <panel></panel>        | H × W × D                       | mm     |                    |                    | <40 - 950 - 950    |                    |                  |                 |                     | <40 - 950 - 950     |                     |                        |
|                | Weight <panel></panel>            |                                 | kg     | 19 <5>             | 19 <5>             | 21 <5>             | 21 <5>             | 24 <5>           | 24 <5>          | 26 <5>              | 26 <5>              | 26 <5>              | 26 <5>                 |
|                | Air Volume [Lo-Mi2                |                                 | m³/min | 11-13-15-16        | 12-14-16-18        | 12-14-16-18        |                    |                  | 19-23-26-29     |                     |                     | 24-26-29-32         |                        |
|                | Sound Level (SPL)                 |                                 | dB(A)  |                    |                    |                    |                    | 31-34-37-40      |                 |                     |                     | 36-39-42-44         |                        |
|                | Sound Level (PWL                  |                                 | dB(A)  | 51                 | 54                 | 54                 | 56                 | 61               | 61              | 65                  | 65                  | 65                  | 65                     |
| Unit           | Dimensions                        | H × W × D                       | mm     | 630 - 80           |                    | 943 - 950          |                    | 440              | 400             |                     | 330 (+40)           | 440                 | 404                    |
| Unit           | Weight                            | I a .:                          | kg     | 43                 | 46                 | 70                 | 70                 | 116              | 123             | 116                 | 125                 | 118                 | 131<br>120             |
|                | Air Volume                        | Cooling                         | m³/min | 45                 | 45                 | 55                 | 55                 | 110              | 110             | 120                 | 120                 | 120                 |                        |
|                |                                   | Heating                         | m³/min | 45                 | 45                 | 55                 | 55                 | 110              | 110             | 120                 | 120<br>50           | 120<br>50           | 120<br>50              |
|                | Sound Level (SPL)                 |                                 | dB(A)  | 44                 | 44                 | 47                 | 47                 | 49               | 49              | 50                  |                     |                     |                        |
|                |                                   | Heating                         | dB(A)  | 46                 | 46                 | 48                 | 48                 | 51               | 51              | 52                  | 52                  | 52                  | 52                     |
|                | Sound Level (PWL)                 |                                 | dB(A)  | 65                 | 65<br>13.0         | 67<br>19.0         | 67<br>19.0         | 69<br>26.5       | 69<br>8.0       | 70<br>26.5          | 70<br>9.5           | 70<br>28.0          | 70<br>13.0             |
|                | Operating Current<br>Breaker Size | (max)                           | A      | 13.0<br>16         | 13.0               | 19.0               | 19.0               | 32               | 16              | 32                  | 9.5                 | 28.0<br>40          |                        |
| Ext.           |                                   | Liquid / Gas                    | A      | 6.35 / 12.7        | 6.35 / 12.7        |                    | 9.52 / 15.88       | 9.52 / 15.88     | 9.52 / 15.88    |                     | 9.52 / 15.88        | 9.52 / 15.88        | 16                     |
| Ext.<br>Piping | Diameter                          |                                 | mm     |                    |                    | 9.52 / 15.88       |                    |                  |                 | 9.52 / 15.88        |                     |                     | 9.52 / 15.88           |
| ribing         | Max. Length                       | Out-In                          | m      | 50                 | 50                 | 50                 | 50                 | 75               | 75              | 75                  | 75<br>30            | 75<br>30            | 75<br>30               |
| C              | Max. Height                       | Out-In                          | °C     | 30                 | 30                 | 30                 | 30                 | 30               | 30              | 30                  |                     |                     |                        |
| [Outdoor       | ed Operating Range                |                                 |        | -15 ~ +46          | -15 ~ +46          | -15 ~ +46          | -15 ~ +46          | -15 ~ +46        | -15 ~ +46       | -15 ~ +46           | -15 ~ +46           | -15 ~ +46           | -15 ~ +46<br>-20 ~ +21 |
| Uutaoor        | l                                 | Heating                         | °C     | -11 ~ +21          | -11 ~ +21          | -20 ~ +21          | -20 ~ +21          | -20 ~ +21        | -20 ~ +21       | -20 ~ +21           | -20 ~ +21           | -20 ~ +21           | -2U ~ +2 l             |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 Optional air protection guide is required where ambient temperature is lower than -5°C.

\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

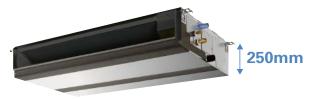




The thin, ceiling-concealed indoor units of this series are the perfect answer for the air conditioning needs of buildings with minimum ceiling installation space and wideranging external static pressure. Energy-saving efficiency has been improved, reducing electricity consumption and contributing to a further reduction in operating cost.

# **Compact Indoor Units**

The height of the models from 35–140 has been unified to 250mm, which makes installation in low ceilings with minimal clearance space possilbe.



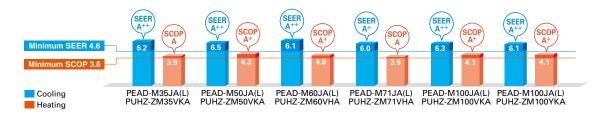
PEAD-M JA(L)

# **External Static Pressure**

External static pressure conversion can be set up to five stages. Capable of being set to a maximum of 150Pa, units are applicable to a wide range of building types.

# ErP Lot 10-compliant, Achieving High Energy Efficiency of SEER/SCOP Rank A+ and A++

A direct-current (DC) fan motor is installed in the indoor unit, increasing the seasonal energy efficiency of the newly designed Power Inverter Series (PUHZ-ZRP) and resulting in compliance of the full-capacity models with ErP Lot 10 and energy rankings of A+/A++ for cooling and A/A+ for heating. This contributes to an impressive reduction in the cost of annual electricity.



# Drain Pump Option Available with All Models

The line-up consists of two types, models with or without a built-in drain pump.



PEAD-M JA → Drain pump built-in



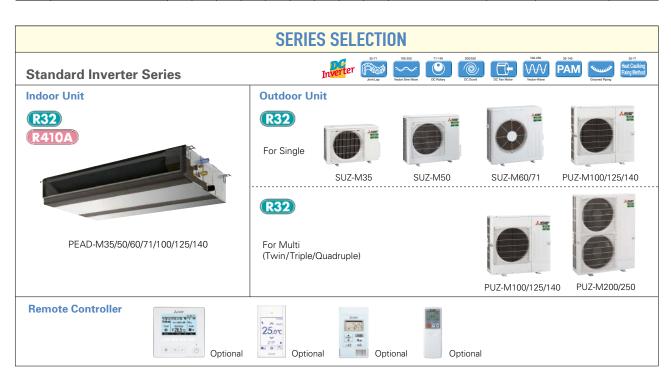
PEAD-M JAL  $\rightarrow$  No drain pump

\* Units with an "L" included at the end of the model name are not equipped with a drain pump.



### PEAD-M JA Indoor Unit Combinations Indoor unit combinations shown below are possible.

|        |                     |      |      |      |      |         |       |       |     | Outd | oor Uı | nit Cap | acity |      |           |             |      |         |      |            |             |
|--------|---------------------|------|------|------|------|---------|-------|-------|-----|------|--------|---------|-------|------|-----------|-------------|------|---------|------|------------|-------------|
| Indoor | Unit Combination    |      |      |      | Fo   | or Sing | jle   |       |     |      |        |         | For   | Twin |           |             | Fo   | or Trip | le   | For Qu     | adruple     |
|        |                     |      | 50   | 60   | 71   | 100     | 125   | 140   | 200 | 250  | 71     | 100     | 125   | 140  | 200       | 250         | 140  | 200     | 250  | 200        | 250         |
| Power  | Inverter (PUHZ-ZRP) | 35x1 | 50x1 | 60x1 | 71x1 | 100x1   | 125x1 | 140x1 | -   | -    | 35x2   | 50x2    | 60x2  | 71x2 | 100x2     | 125x2       | 50x3 | 60x3    | 71x3 | 50x4       | 60x4        |
|        | Distribution Pipe   | -    | -    | _    | _    | -       | -     | -     | -   | _    | N      | 1SDD-   | 50TR2 | -E   | MS<br>50W | DD-<br>R2-E | MSE  | OT-111  | R3-E | MS<br>1111 | DF-<br>R2-E |



# PEAD-M JA Indoor Unit Combinations Indoor unit combinations shown below are possible.

|        |                           |      |      |      |      |         |       |       |     | Outd | oor Ui | nit Cap | acity |      |           |              |      |         |      |            |              |
|--------|---------------------------|------|------|------|------|---------|-------|-------|-----|------|--------|---------|-------|------|-----------|--------------|------|---------|------|------------|--------------|
| Indoor | Unit Combination          |      |      |      | Fo   | or Sing | le    |       |     |      |        |         | For   | Twin |           |              | F    | or Trip | le   | For Qu     | adruple      |
|        |                           |      | 50   | 60   | 71   | 100     | 125   | 140   | 200 | 250  | 71     | 100     | 125   | 140  | 200       | 250          | 140  | 200     | 250  | 200        | 250          |
| Standa | ard Inverter (PUHZ-P&SUZ) | 35x1 | 50x1 | 60x1 | 71x1 | 100x1   | 125x1 | 140x1 | -   | -    | -      | 50x2    | 60x2  | 71x2 | 100x2     | 125x2        | 50x3 | 60x3    | 71x3 | 50x4       | 60x4         |
|        | Distribution Pipe         | -    | -    | -    | -    | -       | -     | -     | -   | -    | -      | MSD     | D-50T | R2-E | MS<br>50W | DD-<br>/R2-E | MSI  | OT-111  | R3-E | MS<br>1111 | DF-<br>IR2-E |

# PEAD-M SERIES





































|                     |   |                                 | Optional | <u> Liit Op</u> (L         | JOWII                      |                            |                          |                            |                            |                        |                        |                        |                    |
|---------------------|---|---------------------------------|----------|----------------------------|----------------------------|----------------------------|--------------------------|----------------------------|----------------------------|------------------------|------------------------|------------------------|--------------------|
| Гуре                |   |                                 |          |                            |                            |                            | ,                        | nverter Heat P             | ump                        |                        |                        |                        |                    |
| idoor Ur            | nit                                     |                                 |          | PEAD-<br>M35JA(L)          | PEAD-<br>M50JA(L)          | PEAD-<br>M60JA(L)          | PEAD-<br>M71JA(L)        | PEAD-M                     | 100JA(L)                   | PEAD-M                 | 125JA(L)               | PEAD-M                 | 140JA(L)           |
| utdoor              | Unit                                    |                                 |          | PUZ-<br>ZM35VKA            | PUZ-<br>ZM50VKA            | PUZ-<br>ZM60VHA            | PUZ-<br>ZM71VHA          | PUZ-<br>ZM100VKA           | PUZ-<br>ZM100YKA           | PUZ-<br>ZM125VKA       | PUZ-<br>ZM125YKA       | PUZ-<br>ZM140VKA       | PUZ-<br>ZM140Y     |
| efrigera            | nt                                      |                                 |          |                            |                            |                            |                          | R3                         |                            |                        |                        |                        |                    |
|                     | Source                                  |                                 |          |                            |                            |                            |                          |                            | wer supply                 |                        |                        |                        |                    |
| upply               | Outdoor (V/Phase                        | /Hz)                            |          |                            |                            |                            |                          | A:230 / Single /           |                            |                        |                        |                        |                    |
| ooling              | Capacity                                | Rated                           | kW       | 3.6                        | 5.0                        | 6.1                        | 7.1                      | 9.5                        | 9.5                        | 12.5                   | 12.5                   | 13.4                   | 13.4               |
|                     |   | Min - Max                       | kW       | 1.6 - 4.5                  | 2.3 - 5.6                  | 2.7 - 6.7                  | 3.3 - 8.1                | 4.9 - 11.4                 | 4.9 - 11.4                 | 5.5 - 14.0             | 5.5 - 14.0             | 6.2 - 15.3             | 6.2 - 15           |
|                     | Total Input                             | Rated                           | kW       | 0.837(0.820)               | 1.201(1.187)               | 1.509(1.495)               | 1.858(1.844)             | 2.272(2.256)               | 2.272(2.256)               | 3.333(3.315)           | 3.333(3.315)           | 3.631(3.611)           | 3.631(3.           |
|                     | EER*4                                   |                                 |          | 4.30(4.39)                 | 4.16(4.21)                 | 4.04(4.08)                 | 3.82(3.85)               | 4.18(4.21)                 | 4.18(4.21)                 | 3.75(3.77)             | 3.75(3.77)             | 3.69(3.71)             | 3.69(3.            |
|                     |   | EEL Rank                        | T        | _                          | -                          |                            |                          |                            |                            | -                      | -                      | -                      | -                  |
|                     | Design Load                             |                                 | kW       | 3.6                        | 5.0                        | 6.1                        | 7.1                      | 9.5                        | 9.5                        | -                      | -                      | -                      | -                  |
|                     | Annual Electricity                      | Consumption*2                   | kWh/a    | 217(201)                   | 282(268)                   | 350(337)                   | 428(414)                 | 534(521)                   | 543(532)                   | -                      | -                      | -                      | -                  |
|                     | SEER*4,*5                               | F                               |          | 5.8(6.2)                   | 6.2(6.5)                   | 6.1(6.3)                   | 5.8(6.0)                 | 6.2(6.3)                   | 6.1(6.2)                   | -                      | -                      | -                      | -                  |
|                     | 0                                       | Energy Efficiency Class         |          | A+(A++)                    | A++(A++)                   | A++(A++)                   | A+ (A+)                  | A++(A++)                   | A++(A++)                   | 14.0                   | 14.0                   | 10.0                   | 16.0               |
|                     | Capacity                                | Rated                           | kW       | 4.1<br>1.6 - 5.2           | 6.0<br>2.5 - 7.3           | 7.0<br>2.8 - 8.2           | 8.0<br>3.5 - 10.2        | 11.2<br>4.5 - 14.0         | 11.2<br>4.5 - 14.0         | 14.0<br>5.0 - 16.0     | 14.0<br>5.0 - 16.0     | 16.0<br>5.7 - 18.0     | 5.7 - 1            |
| verage<br>ason)     | <del>-</del>                            | Min - Max                       |          |                            |                            |                            |                          |                            |                            |                        |                        |                        |                    |
| ason                | Total Input<br>COP*4                    | Rated                           | kW       | 0.917                      | 1.312                      | 1.616                      | 1.932                    | 2.598                      | 2.598                      | 3.349                  | 3.349                  | 3.970                  | 3.970              |
|                     |   | EEL B. I                        |          | 4.47                       | 4.57                       | 4.33                       | 4.14                     | 4.31                       | 4.31                       | 4.18                   | 4.18                   | 4.03                   | 4.03               |
|                     |   | EEL Rank                        | I kW     | 2.4                        | 3.8                        | 4.4                        | 4.9                      | 7.8                        | 7.8                        |                        |                        |                        |                    |
|                     | Design Load                             |                                 |          |                            |                            |                            |                          | 7.8 (–10°C)                | 7.8 (–10°C)                | -                      | -                      | -                      | -                  |
|                     | Deciared Capacity                       | at reference design temperature | kW       | 2.4 (-10°C)<br>2.4 (-10°C) | 3.8 (-10°C)<br>3.8 (-10°C) | 4.4 (-10°C)<br>4.4 (-10°C) | 4.9(-10°C)<br>4.9(-10°C) | 7.8 (=10°C)<br>7.8 (=10°C) | 7.8 (=10°C)<br>7.8 (=10°C) |                        |                        | _                      | -                  |
|                     |   | at bivalent temperature         | kW       | 2.4(-10°C)                 | 3.8 (=10°C)<br>3.7 (=11°C) | 2.8 (–20°C)                | 3.7 (–20°C)              | 5.8 (–20°C)                | 5.8 (=20°C)                |                        | <del>-</del>           |                        |                    |
|                     | Daali II. II. atin n C                  | at operation limit temperature  | kW       | 0                          | 3.7(=11°C)                 | 0                          | 0                        | 0 0                        | 0.8(-20°C)                 |                        |                        | -                      | -                  |
|                     | Back Up Heating C<br>Annual Electricity |                                 | kWh/a    | 858                        | 1237                       | 1540                       | 1751                     | 2666                       | 2666                       |                        | =                      | _                      |                    |
|                     | SCOP*4,*5                               | Consumption**                   | KVVII/a  | 3.9                        | 4.3                        | 4.0                        | 3.9                      | 4.1                        | 4.1                        |                        |                        |                        | _                  |
|                     |   | Energy Efficiency Class         |          | 3.9<br>A                   | 4.3<br>A+                  | A+                         | 3.9<br>A                 | A+                         | A+                         |                        |                        | _                      | -                  |
| avetin              | g Current (max)                         | Lifergy Lifficiency Class       | ΤA       | 14.1                       | 14.4                       | 20.6                       | 21.0                     | 29.2                       | 10.7                       | 29.3                   | 12.3                   | 30.8                   | 15.8               |
| door                | Input [Cooling / Hea                    | ating   Rated                   | kW       | 0.09/0.07                  | 0.11/0.09                  | 0.12/0.10                  | 0.17/0.15                | 0.25/0.23                  | 0.25/0.23                  | 0.36/0.34              | 0.36/0.34              | 0.39/0.37              | 0.39/0             |
| nit                 | Operating Current                       |                                 | A        | 1.07                       | 1.39                       | 1.62                       | 1.97                     | 2.65                       | 2.65                       | 2.76                   | 2.76                   | 2.78                   | 2.78               |
|                     | Dimensions <panel></panel>              | H × W × D                       | mm       |                            | 00-732                     |                            | 00-732                   | 2.03                       |                            | 00-732                 | 2.70                   |                        | 00-732             |
|                     | Weight <panel></panel>                  | JIIX W X D                      | ka       | 26 (25)                    | 27 (26)                    | 30 (29)                    | 30 (29)                  | 39 (38)                    | 39 (38)                    | 40 (39)                | 40 (39)                | 44 (43)                | 44 (4:             |
|                     | Air Volume [Lo-Mic                      | LHil                            | m³/min   |                            | 12.0-14.5-17.0             |                            |                          | 24.0-29.0-34.0             |                            |                        |                        |                        |                    |
|                     | External Static Pre                     |                                 | Pa       | 10.0 12.0 11.0             | 12.0 11.0 17.0             | 11.0 10.0 21.0             | 17.0 21.0 20.0           |                            | / 100 / 150                | 20.0 00.0 12.0         | 120.0 00.0 12.0        | 02.0 00.0 10.0         | 02.0 00.0          |
|                     | Sound Level (SPL)                       |                                 | dB(A)    | 23 - 27 - 30               | 26 - 31 - 35               | 25 - 29 - 33               | 26 - 30 - 34             | 29 - 34 - 38               | 29 - 34 - 38               | 33 - 36 - 40           | 33 - 36 - 40           | 34 - 38 - 43           | 34 - 38            |
|                     | Sound Level (PWL                        |                                 | dB(A)    | 54                         | 59                         | 55                         | 58                       | 62                         | 62                         | 66                     | 66                     | 67                     | 67                 |
| ıtdoor              | Dimensions                              | IH×W×D                          | mm       | 630 - 80                   | 09 - 300                   | 943 - 950 -                | 330 (+25)                |                            |                            | 1338 - 1050            | 0 - 330 (+40)          |                        |                    |
| nit                 | Weight                                  |                                 | kg       | 46                         | 46                         | 70                         | 70                       | 116                        | 123                        | 116                    | 125                    | 118                    | 131                |
|                     | Air Volume                              | Cooling                         | m³/min   | 45                         | 45                         | 55                         | 55                       | 110                        | 110                        | 120                    | 120                    | 120                    | 120                |
|                     |   | Heating                         | m³/min   | 45                         | 45                         | 55                         | 55                       | 110                        | 110                        | 120                    | 120                    | 120                    | 120                |
|                     | Sound Level (SPL)                       | Cooling                         | dB(A)    | 44                         | 44                         | 47                         | 47                       | 49                         | 49                         | 50                     | 50                     | 50                     | 50                 |
|                     |   | Heating                         | dB(A)    | 46                         | 46                         | 49                         | 49                       | 51                         | 51                         | 52                     | 52                     | 52                     | 52                 |
|                     | Sound Level (PWL)                       | Cooling                         | dB(A)    | 65                         | 65                         | 67                         | 67                       | 69                         | 69                         | 70                     | 70                     | 70                     | 70                 |
|                     | Operating Current                       | (max)                           | Α        | 13.0                       | 13.0                       | 19.0                       | 19.0                     | 26.5                       | 8.0                        | 26.5                   | 9.5                    | 28.0                   | 13.0               |
|                     | Breaker Size                            |                                 | А        | 16                         | 16                         | 25                         | 25                       | 32                         | 16                         | 32                     | 16                     | 40                     | 16                 |
| rt.                 | Diameter                                | Liquid / Gas                    | mm       | 6.35 / 12.7                | 6.35 / 12.7                | 9.52 / 15.88               | 9.52 / 15.88             | 9.52 / 15.88               | 9.52 / 15.88               | 9.52 / 15.88           | 9.52 / 15.88           | 9.52 / 15.88           | 9.52 / 1           |
| ping                | Max. Length                             | Out-In                          | m        | 50                         | 50                         | 55                         | 55                       | 100                        | 100                        | 100                    | 100                    | 100                    | 100                |
|                     | Max. Height                             | Out-In                          | m        | 30                         | 30                         | 30                         | 30                       | 30                         | 30                         | 30                     | 30                     | 30                     | 30                 |
|                     |   |                                 |          |                            |                            |                            |                          |                            |                            |                        |                        |                        |                    |
| uarante<br>Dutdoorl | ed Operating Range                      | Cooling*3<br>Heating            | °C       | -15 ~ +46<br>-11 ~ +21     | -15 ~ +46<br>-11 ~ +21     | -15 ~ +46<br>-20 ~ +21     | -15 ~ +46<br>-20 ~ +21   | -15 ~ +46<br>-20 ~ +21     | -15 ~ +46<br>-20 ~ +21     | -15 ~ +46<br>-20 ~ +21 | -15 ~ +46<br>-20 ~ +21 | -15 ~ +46<br>-20 ~ +21 | -15 ~ +<br>-20 ~ + |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with linipher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
\*3 Optional air protection guide is required where ambient temperature is lower than -5°C. \*4 EER/COP and SEER/SCOP for M35-71 are measured at ESP 35Pa, for M100 at ESP 37Pa, for M125/140 at ESP 50Pa.
\*5 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No208/2012.



















































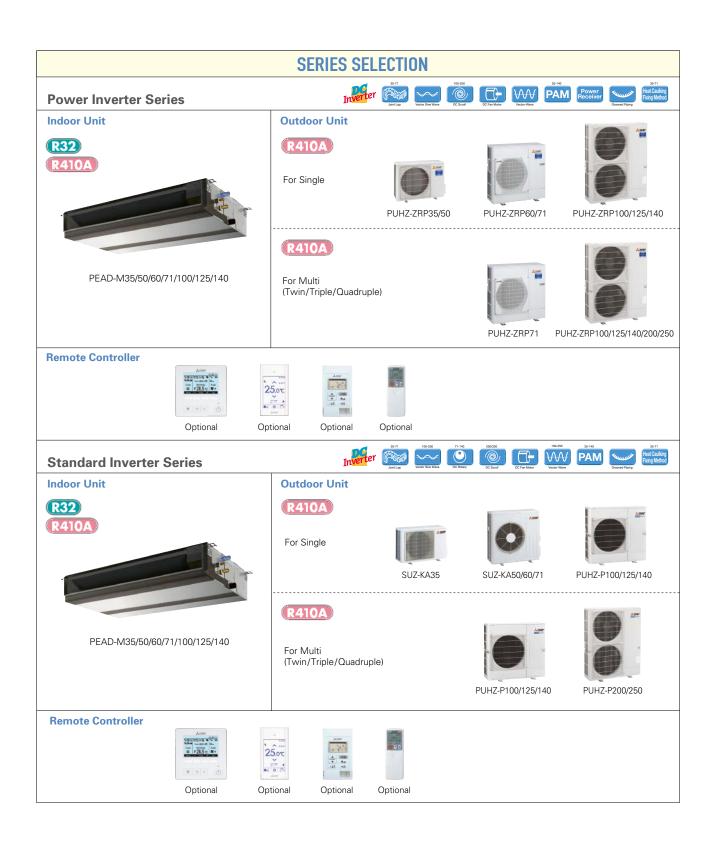
|           |   |                                 | Optional |                   |                   |                   |                   |                    |                  |                 |                 |                 |                  |
|-----------|---|---------------------------------|----------|-------------------|-------------------|-------------------|-------------------|--------------------|------------------|-----------------|-----------------|-----------------|------------------|
| Туре      |   |                                 |          |                   |                   |                   |                   | nverter Heat P     | ump              |                 |                 |                 |                  |
| Indoor U  | nit   |                                 |          | PEAD-<br>M35JA(L) | PEAD-<br>M50JA(L) | PEAD-<br>M60JA(L) | PEAD-<br>M71JA(L) | PEAD-M             | 100JA(L)         | PEAD-M          | 125JA(L)        | PEAD-M          | 140JA(L)         |
| Outdoor   | Unit  |                                 |          | SUZ-<br>M35VA     | SUZ-<br>M50VA     | SUZ-<br>M60VA     | SUZ-<br>M71VA     | PUZ-<br>M100VKA    | PUZ-<br>M100YKA  | PUZ-<br>M125VKA | PUZ-<br>M125YKA | PUZ-<br>M140VKA | PUZ-<br>ZM140YKA |
| Refrigera | nt  |                                 |          |                   |                   |                   |                   | R3                 | 2*1              |                 |                 | •               |                  |
| Power     | Source  |                                 |          |                   |                   |                   |                   | Outdoor po         | wer supply       |                 |                 |                 |                  |
| Supply    | Outdoor (V/Phase                                | /Hz)                            |          |                   |                   |                   | VA • VKA          | : 230 / Single / 9 | 50, YKA: 400 / T | hree / 50       |                 |                 |                  |
| Cooling   | Capacity  | Rated                           | kW       | 3.6               | 5.0               | 6.1               | 7.1               | 9.5                | 9.5              | 12.1            | 12.1            | 13.4            | 13.4             |
| cooming   |   | Min - Max                       | kW       | 0.8 - 3.9         | 1.7 - 5.6         | 1.6 - 6.3         | 2.2 - 8.1         | 4.0 - 10.6         | 4.0 - 10.6       | 6.0 - 13.0      | 6.0 - 13.0      | 6.1 - 14.1      | 6.1 - 14.1       |
|           | Total Input                                     | Rated                           | kW       | 0.92(0.90)        | 1.35(1.33)        | 1.69(1.67)        | 2.02(2.00)        | 2.87(2.85)         | 2.87(2.85)       | 4.01(3.99)      | 4.01(3.99)      | 4.76            | 4.76             |
|           | EER*4   |                                 |          | 3.90(4.00)        | 3.70(3.75)        | 3.60(3.65)        | 3.50(3.55)        | 3.30(3.33)         | 3.30(3.33)       | 3.01(3.03)      | 3.01(3.03)      | 2.81            | 2.81             |
|           |   | EEL Rank                        |          | _                 | -                 | _                 | -                 | -                  | -                | _               | -               | _               | _                |
|           | Design Load                                     |                                 | kW       | 3.6               | 5.0               | 6.1               | 7.1               | 9.5                | 9.5              | 12.1            | 12.1            | 13.4            | 13.4             |
|           | Annual Electricity                              | Consumption*2                   | kWh/a    | 217(199)          | 287(271)          | 353(335)          | 428(411)          | 613(598)           | 613(598)         | -               | -               | -               | -                |
|           | SEER*4,*5                                       | •                               |          | 5.8(6.3)          | 6.1(6.4)          | 6.0(6.3)          | 5.8(6.0)          | 5.4(5.5)           | 5.4(5.5)         | -               | -               | -               | -                |
|           |   | <b>Energy Efficiency Class</b>  |          | A+(A++)           | A++(A++)          | A+(A++)           | A+ (A+)           | A (A)              | A (A)            | -               | -               | -               | -                |
|           | Capacity  | Rated                           | kW       | 4.1               | 6.0               | 7.0               | 8.0               | 11.2               | 11.2             | 13.5            | 13.5            | 15.0            | 15.0             |
| (Average  |   | Min - Max                       | kW       | 1.1 - 5.0         | 1.5 - 7.2         | 1.6 - 8.0         | 2.0 - 10.2        | 2.8 - 12.5         | 2.8 - 12.5       | 4.1 - 15.0      | 4.1 - 15.0      | 4.2 - 15.8      | 4.2 - 15.8       |
| Season)   | Total Input                                     | Rated                           | kW       | 1.02              | 1.46              | 1.84              | 2.15              | 2.94               | 2.94             | 3.73            | 3.73            | 4.15            | 4.15             |
|           | COP*4   |                                 |          | 4.00              | 4.10              | 3.80              | 3.71              | 3.80               | 3.80             | 3.61            | 3.61            | 3.61            | 3.61             |
|           |   | EEL Rank                        |          | -                 | -                 | -                 | -                 | -                  | -                | -               | -               | -               | -                |
|           | Design Load                                     |                                 | kW       | 2.6               | 4.3               | 4.6               | 5.8               | 8.0                | 8.0              | 8.5             | 8.5             | 9.4             | 9.4              |
|           | Declared Capacity                               | at reference design temperature | kW       | 2.3(-10°C)        | 3.8 (-10°C)       | 4.1(-10°C)        | 5.2(-10°C)        | 6.0(-10°C)         | 6.0(-10°C)       | 8.5(-10°C)      | 8.5(-10°C)      | 9.4(-10°C)      | 9.4(-10°C)       |
|           |   | at bivalent temperature         | kW       | 2.3(-7°C)         | 3.8 (-7°C)        | 4.1(-7°C)         | 5.2(-7°C)         | 7.0(-7°C)          | 7.0(-7°C)        | 8.5(-10°C)      | 8.5(-10°C)      | 9.4(-10°C)      | 9.4(-10°C)       |
|           |   | at operation limit temperature  | kW       | 2.3(-10°C)        | 3.8(-10°C)        | 4.1(-10°C)        | 5.2(-10°C)        | 4.5(-15°C)         | 4.5(-15°C)       | 6.0(-15°C)      | 6.0(-15°C)      | 7.0(-15°C)      | 7.0(-15°C)       |
|           | Back Up Heating (                               |                                 | kW       | 0.5               | 0.5               | 0.5               | 0.6               | 2.0                | 2.0              | -               | -               | -               | -                |
|           | Annual Electricity                              | Consumption*2                   | kWh/a    | 931               | 1430              | 1594              | 2080              | 2795               | 2795             | -               | -               | -               | -                |
|           | SCOP*4,*5                                       | F. F. C.                        |          | 3.9               | 4.2               | 4.0               | 3.9               | 4.0                | 4.0              | -               | -               | -               | -                |
|           | 2 11  | Energy Efficiency Class         |          | A                 | A+                | A+                | A                 | A+                 | A+               | -               | -               | -               | -                |
| Indoor    | g Current (max)                                 | e db. i                         | kW       | 9.6               | 14.9              | 16.4              | 16.8              | 22.7               | 14.2             | 29.3            | 14.3            | 32.8            | 14.3             |
| Unit      | Input [Cooling / He                             |                                 |          | 1.07              | 1.39              |                   |                   |                    |                  | 2.76            | 2.76            |                 |                  |
| Oiiit     | Operating Current<br>Dimensions <panel></panel> |                                 | A<br>mm  |                   | 00-732            | 1.62              | 1.97              | 2.65               | 2.65             | 00-732          | 2.76            | 2.78            | 2.78             |
|           | Weight <panel></panel>                          | [H × W × D                      | kg       | 26 (25)           | 27 (26)           | 30 (29)           | 30 (29)           | 39 (38)            | 39 (38)          | 40 (39)         | 40 (39)         | 44 (43)         | 44 (43)          |
|           | Air Volume [Lo-Mi                               | 4 Lii                           | m³/min   |                   |                   |                   |                   |                    |                  |                 |                 | 32.0-39.0-46.0  |                  |
|           | External Static Pre                             |                                 | Pa       | 10.0-12.0-14.0    | 12.0-14.5-17.0    | 14.5-16.0-21.0    | 17.5-21.0-25.0    |                    | / 100 / 150      | 23.0-30.0-42.0  | 29.0-30.0-42.0  | 32.0-33.0-40.0  | 32.0-33.0-40.0   |
|           | Sound Level (SPL)                               |                                 | dB(A)    | 23 - 27 - 30      | 26 - 31 - 35      | 25 - 29 - 33      | 26 - 30 - 34      | 29 - 34 - 38       | 29 - 34 - 38     | 33 - 36 - 40    | 33 - 36 - 40    | 34 - 38 - 43    | 34 - 38 - 43     |
|           | Sound Level (PWL                                |                                 | dB(A)    | 54                | 59                | 55                | 58                | 62                 | 62               | 66              | 66              | 67              | 67               |
| Outdoor   | Dimensions                                      | IH×W×D                          | mm       |                   | 714 - 800 - 285   | 880 - 84          |                   | 981 - 1050 - 330   | 02               | 981 - 1050      |                 | 07              | 07               |
| Unit      | Weight  | IIIAWAB                         | kg       | 35                | 41                | 54                | 55                | 76                 | 78               | 84              | 85              | 84              | 85               |
|           | Air Volume                                      | Cooling                         | m³/min   | 34.3              | 45.8              | 50.1              | 50.1              | 79.0               | 79.0             | 86.0            | 86.0            | 86.0            | 86.0             |
|           |   | Heating                         | m³/min   | 32.7              | 43.7              | 50.1              | 50.1              | 79.0               | 79.0             | 92.0            | 92.0            | 92.0            | 92.0             |
|           | Sound Level (SPL)                               | Cooling                         | dB(A)    | 48                | 48                | 49                | 49                | 51                 | 51               | 54              | 54              | 55              | 55               |
|           |   | Heating                         | dB(A)    | 48                | 49                | 51                | 51                | 54                 | 54               | 56              | 56              | 57              | 57               |
|           | Sound Level (PWL)                               |                                 | dB(A)    | 59                | 64                | 65                | 66                | 70                 | 70               | 72              | 72              | 73              | 73               |
|           | Operating Current                               |                                 | A        | 8.5               | 13.5              | 14.8              | 14.8              | 20.0               | 11.5             | 26.5            | 11.5            | 30.0            | 11.5             |
|           | Breaker Size                                    | •                               | Α        | 16                | 20                | 20                | 20                | 32                 | 16               | 32              | 16              | 40              | 16               |
| Ext.      | Diameter  | Liquid / Gas                    | mm       | 6.35 / 9.52       | 6.35 / 12.7       | 6.35 / 15.88      | 9.52 / 15.88      | 9.52 / 15.88       | 9.52 / 15.88     | 9.52 / 15.88    | 9.52 / 15.88    | 9.52 / 15.88    | 9.52 / 15.88     |
| Piping    | Max. Length                                     | Out-In                          | m        | 20                | 30                | 30                | 30                | 55                 | 55               | 65              | 65              | 65              | 65               |
|           | Max. Height                                     | Out-In                          | m        | 12                | 30                | 30                | 30                | 30                 | 30               | 30              | 30              | 30              | 30               |
|           | ed Operating Range                              | Cooling*3                       | °C       | -10 ~ +46         | -15 ~ +46         | -15 ~ +46         | -15 ~ +46         | -15 ~ +46          | -15 ~ +46        | -15 ~ +46       | -15 ~ +46       | -15 ~ +46       | -15 ~ +46        |
| [Outdoor  | ]   | Heating                         | °C       | -10 ~ +24         | -10 ~ +24         | -10 ~ +24         | -10 ~ +24         | -15 ~ +21          | -15 ~ +21        | -15 ~ +21       | -15 ~ +21       | -15 ~ +21       | -15 ~ +21        |
| *4.0.0    |   |                                 | -        | •                 | •                 | L (OLA/D) L L     | •                 | •                  | •                | . 91.11.1       | DIAMP ICL II II | •               | T1 1             |

<sup>\*\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with lingher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 Optional air protection guide is required where amblient temperature is lower than -5°C. \*4 EER/COP and SEER/SCOP for M35-71 are measured at ESP 35Pa, for M100 at ESP 37Pa, for M125/140 at ESP 50Pa.

\*5 SEER and SCOP are based on 2009/125/EC.Energy-related Products Directive and Regulation(EU) No208/2012.



# PEAD-M JA(L) Indoor Unit Combinations Indoor unit combinations shown below are possible.

|        |                           |      |      |      |      |         |       |       |     | Outd | oor Ui | nit Cap | pacity |      |       |        |      |         |      |        |         |
|--------|---------------------------|------|------|------|------|---------|-------|-------|-----|------|--------|---------|--------|------|-------|--------|------|---------|------|--------|---------|
| Indoor | Unit Combination          |      |      |      | Fo   | or Sing | gle   |       |     |      |        |         | For    | Twin |       |        | F    | or Trip | le   | For Qu | adruple |
|        |                           | 35   | 50   | 60   | 71   | 100     | 125   | 140   | 200 | 250  | 71     | 100     | 125    | 140  | 200   | 250    | 140  | 200     | 250  | 200    | 250     |
| Power  | Power Inverter (PUHZ-ZRP) |      | 50x1 | 60x1 | 71x1 | 100x1   | 125x1 | 140x1 | -   | -    | 35x2   | 50x2    | 60x2   | 71x2 | 100x2 | 125x2  | 50x3 | 60x3    | 71x3 | 50x4   | 60x4    |
|        | Distribution Pipe         | -    | -    | _    | _    | -       | -     | -     | -   | -    | N      | лSDD-   | 50TR-  | E    | MSDD- | 50WR-E | MS   | DT-111  | R-E  | MSDF-1 | 1111R-E |
| Standa | rd Inverter (PUHZ-P&SUZ)  | 35x1 | 50x1 | 60x1 | 71x1 | 100x1   | 125x1 | 140x1 | -   | -    | -      | 50x2    | 60x2   | 71x2 | 100x2 | 125x2  | 50x3 | 60x3    | 71x3 | 50x4   | 60x4    |
|        | Distribution Pipe         | _    | -    | _    | _    | -       | -     | -     | -   | -    | -      | MSI     | DD-50  | TR-E | MSDD- | 50WR-E | MS   | DT-111  | R-E  | MSDF-1 | 1111R-E |

# PEAD-M SERIES







































|                    | INVERIER                              |                                 | Optional    | Lint Op            | JOWII              | Diagnosis          | necal              |                     |                     |                     |                     |                     |                   |
|--------------------|---------------------------------------|---------------------------------|-------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
| Туре               |                                       |                                 |             |                    |                    |                    |                    | nverter Heat P      | ump                 |                     |                     |                     |                   |
| ndoor U            | nit                                   |                                 |             | PEAD-<br>M35JA(L)  | PEAD-<br>M50JA(L)  | PEAD-<br>M60JA(L)  | PEAD-<br>M71JA(L)  | PEAD-M              | 100JA(L)            | PEAD-M              | 125JA(L)            | PEAD-M              | 140JA(L)          |
| Outdoor            | Unit                                  |                                 |             | PUHZ-<br>ZRP35VKA2 | PUHZ-<br>ZRP50VKA2 | PUHZ-<br>ZRP60VHA2 | PUHZ-<br>ZRP71VHA2 | PUHZ-<br>ZRP100VKA3 | PUHZ-<br>ZRP100YKA3 | PUHZ-<br>ZRP125VKA3 | PUHZ-<br>ZRP125YKA3 | PUHZ-<br>ZRP140VKA3 | PUHZ-<br>ZRP140YK |
| Refrigera          | int                                   |                                 |             |                    |                    |                    |                    | R41                 | 0A*1                |                     |                     |                     |                   |
| ower               | Source                                |                                 |             |                    |                    |                    |                    | Outdoor po          | wer supply          |                     |                     |                     |                   |
| Supply             | Outdoor (V/Phase                      | /Hz)                            |             |                    |                    |                    | VKA • VH           | IA:230 / Single /   | 50, YKA:400 / 1     | Γhree / 50          |                     |                     |                   |
| Cooling            | Capacity                              | Rated                           | kW          | 3.6                | 5.0                | 6.1                | 7.1                | 9.5                 | 9.5                 | 12.5                | 12.5                | 13.4                | 13.4              |
|                    | ' '                                   | Min - Max                       | kW          | 1.6 - 4.5          | 2.3 - 5.6          | 2.7 - 6.7          | 3.3 - 8.1          | 4.9 - 11.4          | 4.9 - 11.4          | 5.5 - 14.0          | 5.5 - 14.0          | 6.2 - 15.3          | 6.2 - 15.         |
|                    | Total Input                           | Rated                           | kW          | 0.89(0.87)         | 1.44 (1.42)        | 1.65 (1.63)        | 2.01 (1.99)        | 2.43 (2.41)         | 2.43 (2.41)         | 3.86 (3.83)         | 3.86 (3.83)         | 4.32 (4.29)         | 4.32 (4.2         |
|                    | EER*4                                 |                                 |             | -                  | -                  | -                  | -                  | -                   | -                   | 3.24 (3.26)         | 3.24 (3.26)         | 3.10(3.12)          | 3.10(3.1          |
|                    |                                       | EEL Rank                        |             | -                  | -                  | -                  | _                  | -                   | -                   | -                   | -                   | -                   | _                 |
|                    | Design Load                           |                                 | kW          | 3.6                | 5.0                | 6.1                | 7.1                | 9.5                 | 9.5                 | -                   | -                   | -                   | _                 |
|                    | Annual Electricity                    | Consumption*2                   | kWh/a       | 221(205)           | 304(288)           | 355(340)           | 428(411)           | 554(543)            | 565(554)            | -                   | -                   | -                   |                   |
|                    | SEER*4,*5                             | F                               |             | 5.7(6.1)           | 5.7(6.0)           | 6.0(6.2)           | 5.8(6.0)           | 6.0(6.1)            | 5.8(6.0)            | -                   | -                   | -                   | -                 |
|                    | 0 ''                                  | Energy Efficiency Class         | kW          | A+ (A++)<br>4.1    | A+(A+)<br>6.0      | A+(A++)<br>7.0     | A+ (A+)<br>8.0     | A+ (A++)<br>11.2    | A+(A+)<br>11.2      | 14.0                | 14.0                | 16.0                | 16.0              |
| leating<br>Average | Capacity                              | Rated<br>Min - Max              | kW          | 1.6 - 5.2          | 2.5 - 7.3          | 2.8 - 8.2          | 3.5 - 10.2         | 4.5 - 14.0          | 4.5 - 14.0          | 5.0 - 16.0          | 5.0 - 16.0          | 5.7 - 18.0          | 5.7 - 18.         |
| eason)             | Total Input                           | Rated                           | kW          | 0.95               | 1.50               | 1.79               | 2.03               | 2.60                | 2.60                | 3.51                | 3.51                | 4.07                | 4.07              |
| cuson,             | COP*4                                 | nateu                           | KVV         | 0.95               | 1.50               | 1.79               | 2.03               | 2.00                | 2.00                | 3.99                | 3.99                | 3.93                | 3.93              |
|                    | COF                                   | EEL Rank                        |             | _                  |                    |                    | <del></del>        |                     | _                   | 3.33                | 3.33                | - 3.33              | - 3.33            |
|                    | Design Load                           | LLL Halik                       | kW          | 2.4                | 3.8                | 4.4                | 4.9                | 7.8                 | 7.8                 |                     | _                   | -                   | _                 |
|                    |                                       | at reference design temperature | kW          | 2.4 (-10°C)        | 3.8 (-10°C)        | 4.4 (-10°C)        | 4.9(-10°C)         | 7.8 (-10°C)         | 7.8 (-10°C)         | _                   | _                   | _                   | _                 |
|                    | Dooiarou oupuorty                     | at bivalent temperature         | kW          | 2.4 (-10°C)        | 3.8 (-10°C)        | 4.4 (-10°C)        | 4.9(-10°C)         | 7.8 (-10°C)         | 7.8 (-10°C)         | -                   | _                   | _                   |                   |
|                    |                                       | at operation limit temperature  | kW          | 2.2 (-11°C)        | 3.7 (-11°C)        | 2.8(-20°C)         | 3.7(-20°C)         | 5.8 (-20°C)         | 5.8 (-20°C)         | _                   | _                   | _                   |                   |
|                    | Back Up Heating C                     |                                 | kW          | 0                  | 0                  | 0                  | 0                  | 0                   | 0                   | -                   | -                   | -                   | -                 |
|                    | Annual Electricity                    |                                 | kWh/a       | 839                | 1231               | 1513               | 1762               | 2627                | 2627                | -                   | -                   | _                   | _                 |
|                    | SCOP*4,*5                             | •                               |             | 4.0                | 4.3                | 4.1                | 3.9                | 4.2                 | 4.2                 | -                   | -                   | -                   | -                 |
|                    |                                       | Energy Efficiency Class         |             | A+                 | A+                 | A+                 | A                  | A+                  | A+                  | -                   | -                   | -                   | _                 |
|                    | ig Current (max)                      |                                 | Α           | 14.1               | 14.4               | 20.6               | 21.0               | 29.2                | 10.7                | 29.3                | 12.3                | 30.8                | 15.8              |
| ndoor              | Input [Cooling / Hea                  |                                 | kW          |                    |                    |                    |                    | 0.25 (0.23)/0.23    |                     |                     |                     |                     |                   |
| nit                | Operating Current                     |                                 | Α           | 1.07               | 1.39               | 1.62               | 1.97               | 2.65                | 2.65                | 2.76                | 2.76                | 2.78                | 2.78              |
|                    | Dimensions <panel></panel>            | $H \times W \times D$           | mm          |                    | 00-732             |                    | 100-732            |                     |                     | 00-732              |                     |                     | 600-732           |
|                    | Weight <panel></panel>                |                                 | kg          | 26 (25)            | 27(26)             | 30(29)             | 30(29)             | 39(38)              | 39(38)              | 40(39)              | 40(39)              | 44(43)              | 44(43)            |
|                    | Air Volume [Lo-Mic                    |                                 | m³/min      | 10.0-12.0-14.0     | 12.0-14.5-17.0     | 14.5-18.0-21.0     | 17.5-21.0-25.0     | 24.0-29.0-34.0      |                     | 29.5-35.5-42.0      | 29.5-35.5-42.0      | 32.0-39.0-46.0      | 32.0-39.0-4       |
|                    | External Static Pre                   |                                 | Pa<br>dB(A) | 23 - 27 - 30       | 26 - 31 - 35       | 25 - 29 - 33       | 26 - 30 - 34       | 35 / 50 / /0        | 29 - 34 - 38        | 33 - 36 - 40        | 33 - 36 - 40        | 34 - 38 - 43        | 34 - 38 -         |
|                    | Sound Level (SPL)<br>Sound Level (PWL |                                 | dB(A)       | 54                 | 59                 | 25 - 29 - 33<br>55 | 58                 | 62                  | 62                  | 66                  | 66                  | 67                  | 67                |
| lutdoor            | Dimensions                            | H×W×D                           | mm          |                    | 09 - 300           |                    | - 330 (+30)        | 02                  | 02                  |                     | ) - 330 (+40)       | 67                  | 6/                |
| Init               | Weight                                | III X VV X D                    | kg          | 43                 | 1 46               | 70                 | 70                 | 116                 | 123                 | 1116                | 125                 | 118                 | 131               |
|                    | Air Volume                            | Cooling                         | m³/min      | 45                 | 45                 | 55                 | 55                 | 110                 | 110                 | 120                 | 120                 | 120                 | 120               |
|                    | · voidine                             | Heating                         | m³/min      | 45                 | 45                 | 55                 | 55                 | 110                 | 110                 | 120                 | 120                 | 120                 | 120               |
|                    | Sound Level (SPL)                     | Cooling                         | dB(A)       | 44                 | 44                 | 47                 | 47                 | 49                  | 49                  | 50                  | 50                  | 50                  | 50                |
|                    |                                       | Heating                         | dB(A)       | 46                 | 46                 | 48                 | 48                 | 51                  | 51                  | 52                  | 52                  | 52                  | 52                |
|                    | Sound Level (PWL)                     | Cooling                         | dB(A)       | 65                 | 65                 | 67                 | 67                 | 69                  | 69                  | 70                  | 70                  | 70                  | 70                |
|                    | <b>Operating Current</b>              |                                 | A           | 13.0               | 13.0               | 19.0               | 19.0               | 26.5                | 8.0                 | 26.5                | 9.5                 | 28.0                | 13.0              |
|                    | Breaker Size                          |                                 | Α           | 16                 | 16                 | 25                 | 25                 | 32                  | 16                  | 32                  | 16                  | 40                  | 16                |
| xt.                | Diameter                              | Liquid / Gas                    | mm          | 6.35 / 12.7        | 6.35 / 12.7        | 9.52 / 15.88       | 9.52 / 15.88       | 9.52 / 15.88        | 9.52 / 15.88        | 9.52 / 15.88        | 9.52 / 15.88        | 9.52 / 15.88        | 9.52 / 15.        |
| iping              | Max. Length                           | Out-In                          | m           | 50                 | 50                 | 50                 | 50                 | 75                  | 75                  | 75                  | 75                  | 75                  | 75                |
|                    | Max. Height                           | Out-In                          | m           | 30                 | 30                 | 30                 | 30                 | 30                  | 30                  | 30                  | 30                  | 30                  | 30                |
|                    | ed Operating Range                    | Cooling*3                       | °C          | -15 ~ +46          | -15 ~ +46          | -15 ~ +46          | -15 ~ +46          | -15 ~ +46           | -15 ~ +46           | -15 ~ +46           | -15 ~ +46           | -15 ~ +46           | -15 ~ +4          |
| Outdoor            |                                       | Heating                         | °C          | -11 ~ +21          | -11 ~ +21          | -20 ~ +21          | -20 ~ +21          | -20 ~ +21           | -20 ~ +21           | -20 ~ +21           | -20 ~ +21           | -20 ~ +21           | -20 ~ +2          |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant divoud be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of COz, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.
\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
\*3 Optional air protection guide is required where ambient temperature is lower than -5°C. \*4 EER/SCOP for M35-71 are measured at ESP 35Pa, for M100 at ESP 37Pa, for M125/140 at ESP 50Pa.
\*5 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.



































| PEA   | D-M      | SERIES |
|-------|----------|--------|
| STAND | ARD INVE | RTER   |

















| Туре      |   |                                 |        |                       |                   |                       | lr                | verter Heat P      | ımp              |                  |                  |                  |                  |
|-----------|---|---------------------------------|--------|-----------------------|-------------------|-----------------------|-------------------|--------------------|------------------|------------------|------------------|------------------|------------------|
| Indoor Ur | nit   |                                 |        | PEAD-<br>M35JA(L)     | PEAD-<br>M50JA(L) | PEAD-<br>M60JA(L)     | PEAD-<br>M71JA(L) | PEAD-M             | 100JA(L)         | PEAD-M           | 125JA(L)         | PEAD-M           | 140JA(L)         |
| Outdoor   |   |                                 |        | SUZ-KA35VA6           | SUZ-KA50VA6       | SUZ-KA60VA6           | SUZ-KA71VA6       | PUHZ-<br>P100VKA   | PUHZ-<br>P100YKA | PUHZ-<br>P125VKA | PUHZ-<br>P125YKA | PUHZ-<br>P140VKA | PUHZ-<br>P140YKA |
| Refrigera |   |                                 |        |                       |                   |                       | •                 | R41                |                  |                  |                  |                  |                  |
| Power     | Source  |                                 |        |                       |                   |                       |                   | Outdoor po         |                  |                  |                  |                  |                  |
| Supply    | Outdoor (V/Phase  | /Hz)                            |        |                       |                   |                       | VA • VKA          | x:230 / Single / 5 | 50, YKA:400 / Th | ree / 50         |                  |                  |                  |
| Cooling   | Capacity  | Rated                           | kW     | 3.6                   | 4.9               | 5.7                   | 7.1               | 9.4                | 9.4              | 12.1             | 12.1             | 13.6             | 13.6             |
| -         |   | Min - Max                       | kW     | 1.4 - 3.9             | 2.3 - 5.6         | 2.3 - 6.3             | 2.8 - 8.1         | 3.7 - 10.6         | 3.7 - 10.6       | 5.6 - 13.0       | 5.6 - 13.0       | 5.8 - 14.1       | 5.8 - 14.1       |
|           | Total Input   | Rated                           | kW     | 1.050 (1.030)         | 1.480 (1.460)     | 1.670 (1.650)         | 2.080 (2.060)     | 2.98 (2.96)        | 2.98 (2.96)      | 4.15 (4.14)      | 4.15 (4.14)      | 5.21 (5.19)      | 5.21 (5.19)      |
|           | EER*4   |                                 |        | -                     | -                 | -                     | -                 | 3.17               | 3.17             | 2.91 (2.92)      | 2.91 (2.92)      | 2.61 (2.62)      | 2.61 (2.62)      |
|           |   | EEL Rank                        |        | _                     | -                 | _                     | _                 | -                  | -                | -                | -                | _                | -                |
|           | Design Load   |                                 | kW     | 3.6                   | 4.9               | 5.7                   | 7.1               | 9.4                | 9.4              | -                | -                | -                | -                |
|           | Annual Electricity  | Consumption*2                   | kWh/a  | 222 (210)             | 302 (290)         | 337 (325)             | 408 (396)         | 644 (627)          | 644 (627)        | _                | -                | ı                | -                |
|           | SEER*4,*5   |                                 |        | 5.6 (6.0)             | 5.6 (5.9)         | 5.9 (6.1)             | 6.1 (6.2)         | 5.1 (5.2)          | 5.1 (5.2)        | -                | -                | _                | -                |
|           |   | <b>Energy Efficiency Class</b>  |        | A+ (A+)               | A+ (A+)           | A+ (A++)              | A++ (A++)         | A (A)              | A (A)            | -                | -                | -                | -                |
| Heating   | Capacity  | Rated                           | kW     | 4.1                   | 5.9               | 7.0                   | 8.0               | 11.2               | 11.2             | 13.5             | 13.5             | 15.0             | 15.0             |
| (Average  |   | Min - Max                       | kW     | 1.7 - 5.0             | 1.7 - 7.2         | 2.5 - 8.0             | 2.6 - 10.2        | 2.8 - 12.5         | 2.8 - 12.5       | 4.8 - 15.0       | 4.8 - 15.0       | 4.9 - 15.8       | 4.9 - 15.8       |
| Season)   | Total Input   | Rated                           | kW     | 1.110                 | 1.620             | 1.930                 | 2.040             | 2.94               | 2.94             | 3.73             | 3.73             | 4.27             | 4.27             |
|           | COP*4   |                                 |        | -                     | -                 | -                     | -                 | 3.80               | 3.80             | 3.61             | 3.61             | 3.51             | 3.51             |
|           |   | EEL Rank                        |        |                       | -                 |                       |                   |                    |                  | _                | _                |                  | _                |
|           | Design Load   |                                 | kW     | 2.8                   | 4.4               | 4.5                   | 6.0               | 8.0                | 8.0              | -                | -                | -                | _                |
|           | Declared Capacity   | at reference design temperature | kW     | 2.5 (-10°C)           | 3.9 (-10°C)       | 4.1 (-10°C)           | 5.3 (-10°C)       | 6.0 (-10°C)        | 6.0 (-10°C)      | -                | -                | -                | _                |
|           |   | at bivalent temperature         | kW     | 2.5 (-7°C)            | 3.9 (-7°C)        | 4.1 (-7°C)            | 5.3 (-7°C)        | 7.0 (-7°C)         | 7.0 (-7°C)       | _                | -                | -                | -                |
|           |   | at operation limit temperature  | kW     | 2.5 (-10°C)           | 3.9 (-10°C)       | 4.1 (-10°C)           | 5.3 (-10°C)       | 4.5 (-15°C)        | 4.5 (-15°C)      | -                | -                | -                | _                |
|           |   |                                 | kW     | 0.3                   | 0.5               | 0.5                   | 0.7               | 2.0<br>2793        | 2.0<br>2793      | -                | -                | -                | _                |
|           | Back Up Heating Capacity Annual Electricity Consumption*2 |                                 | kWh/a  | 980                   | 1466              | 1569                  | 2153              |                    |                  | -                | -                | -                | -                |
|           | SCOP*4,*5   | Energy Efficiency Class         |        | 4.0<br>A <sup>+</sup> | 4.2<br>A+         | 4.0<br>A <sup>+</sup> | 3.9<br>A          | 4.0<br>A+          | 4.0<br>A+        |                  | ===              |                  |                  |
| Onevetin  | g Current (max)   | Ellergy Efficiency Class        | A      | 9.3                   | 13.4              | 15.6                  | 18.1              | 22.7               | 14.2             | 29.3             | 14.3             | 32.8             | 14.3             |
| Indoor    | Input [Cooling / Hea                                      | -4:1   D-41                     | kW     | 0.09(0.07) / 0.07     |                   |                       | 0.17(0.15) / 0.15 |                    | 0.25(0.23)/0.23  | 0.36(0.34)/0.34  |                  | 0.39(0.37)/0.37  | 0.39(0.37)/0.37  |
| Unit      | Operating Current   |                                 | A      | 1.07                  | 1.39              | 1.62                  | 1.97              | 2.65               | 2.65             | 2.76             | 2.76             | 2.78             | 2.78             |
| Oiiit     | Dimensions <panel></panel>                                | H × W × D                       | mm     |                       | 00-732            |                       | 00-732            | 2.00               | 250-14           |                  | 2.70             | 250-16           |                  |
|           | Weight <panel></panel>                                    | II X VV X D                     | kg     | 26 (25)               | 27 (26)           | 30 (29)               | 30 (29)           | 39 (38)            | 39 (38)          | 40 (39)          | 40 (39)          | 44 (43)          | 44 (43)          |
|           | Air Volume [Lo-Mic  | -Hil                            | m³/min |                       |                   |                       | 17.5-21.0-25.0    |                    |                  |                  |                  |                  | 32.0-39.0-46.0   |
|           | External Static Pre                                       |                                 | Pa     | 10.0 12.0 14.0        | 12.0 14.0 17.0    | 14.0 10.0 21.0        |                   | 50 / 70 / 100 /    |                  | 20.0 00.0 42.0   | 20.0 00.0 42.0   | 02.0 00.0 40.0   | 02.0 00.0 40.0   |
|           | Sound Level (SPL)   |                                 | dB(A)  | 23 - 27 - 30          | 26 - 31 - 35      | 25 - 29 - 33          | 26 - 30 - 34      | 29 - 34 - 38       | 29 - 34 - 38     | 33 - 36 - 40     | 33 - 36 - 40     | 34 - 38 - 43     | 34 - 38 - 43     |
|           | Sound Level (PWL  |                                 | dB(A)  | 54                    | 59                | 55                    | 58                | 62                 | 62               | 66               | 66               | 67               | 67               |
| Outdoor   | Dimensions  | H×W×D                           | mm     | 550-800-285           |                   | 880-840-330           |                   |                    |                  | 981-10           | 50-330           |                  |                  |
| Unit      | Weight  | <u> </u>                        | kg     | 35                    | 54                | 50                    | 53                | 76                 | 78               | 84               | 85               | 84               | 85               |
|           | Air Volume  | Cooling                         | m³/min | 36.3                  | 44.6              | 40.9                  | 50.1              | 79                 | 79               | 86               | 86               | 86               | 86               |
|           |   | Heating                         | m³/min | 34.8                  | 44.6              | 49.2                  | 48.2              | 79                 | 79               | 92               | 92               | 92               | 92               |
|           | Sound Level (SPL)   | Cooling                         | dB(A)  | 49                    | 52                | 55                    | 55                | 51                 | 51               | 54               | 54               | 56               | 56               |
|           |   | Heating                         | dB(A)  | 50                    | 52                | 55                    | 55                | 54                 | 54               | 56               | 56               | 57               | 57               |
|           | Sound Level (PWL)   | Cooling                         | dB(A)  | 62                    | 65                | 65                    | 69                | 70                 | 70               | 72               | 72               | 75               | 75               |
|           | Operating Current   | (max)                           | Α      | 8.2                   | 12.0              | 14.0                  | 16.1              | 20.0               | 11.5             | 26.5             | 11.5             | 30.0             | 11.5             |
|           | Breaker Size  |                                 | Α      | 10                    | 20                | 20                    | 20                | 32                 | 16               | 32               | 16               | 40               | 16               |
| Ext.      | Diameter  | Liquid / Gas                    | mm     | 6.35 / 9.52           | 6.35 / 12.7       | 6.35 / 15.88          | 9.52 / 15.88      | 9.52 / 15.88       | 9.52 / 15.88     | 9.52 / 15.88     | 9.52 / 15.88     | 9.52 / 15.88     | 9.52 / 15.88     |
| Piping    | Max. Length   | Out-In                          | m      | 20                    | 30                | 30                    | 30                | 50                 | 50               | 50               | 50               | 50               | 50               |
|           | Max. Height   | Out-In                          | m      | 12                    | 30                | 30                    | 30                | 30                 | 30               | 30               | 30               | 30               | 30               |
|           | ed Operating Range  | Cooling*3                       | °C     | -10 ~ +46             | -15 ~ +46         | -15 ~ +46             | -15 ~ +46         | -15 ~ +46          | -15 ~ +46        | -15 ~ +46        | -15 ~ +46        | -15 ~ +46        | -15 ~ +46        |
| [Outdoor  |   | Heating                         | °C     | -10 ~ +24             | -10 ~ +24         | -10 ~ +24             | -10 ~ +24         | -15 ~ +21          | -15 ~ +21        | -15 ~ +21        | -15 ~ +21        | -15 ~ +21        | -15 ~ +21        |

Heating \*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP; I leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 Optional air protection guide is required where ambient temperature is lower than -5°C. \*4 EER/COP and SEER/SCOP for M35-71 are measured at ESP 35Pa, for M100 at ESP 37Pa, for M125/140 at ESP 50Pa.

\*5 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.



# PEA

The PEA Series is a large capacity ceiling-concealed type indoor units which are visually discreet blending into various environments. The new R32 refrigerant lineup realizes improved energy efficiency with a patented fan called a Turbo In Sirocco fan. A wider option of external static pressure up to 200Pa allows authentic ducted air-conditioning with an elegant interior layout.

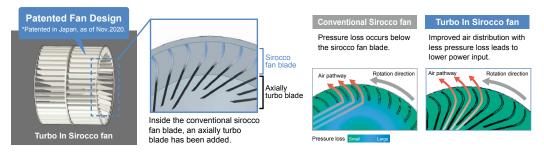
# Improved Energy Efficiency

Introduction of new R32 refrigerant with newly designed fan reduces energy consumption and have resulted in higher energy savings for all capacity ranges.



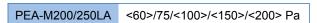
# Low input with New Fan Design

The new PEA series applies a newly designed fan; a Turbo In Sirocco fan which realizes high efficiency with a lower power input. The new design is Mitsubishi Electric's patented technology with a combination of turbo fan inside the sirocco fan.



# Wide range of external static pressure allows flexible duct design

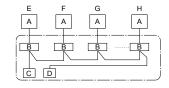
200Pa setting is newly added enabling total of five static pressure level. The ability to select additional static pressure enables long duct and more freedom in design.



The factory setting of external static pressure is shown without brackets (< >). Refer to "Fan characteristics curves" according to the external static pressure, in the DATA BOOK for the usable range of airflow rate

# PAR-40MAA Group Control

The PAR-40MAA remote controller can control up to 16 systems as a group, and is ideal for supporting the integrated management of building air conditioners.



- Indoor unit Main remote controller
- Subordinate remote controller Standard (Refrigerant address = 00) Refrigerant address = 01 Refrigerant address = 02

- Refrigerant address = 15



























| PEA-M SERIES    | Jica- | Vector Sine Wave | DC Scroll  | Rare Earth Magnet      | DC Fan Motor | Vector-Wave |            | Grooved Piping    | Optional |
|-----------------|-------|------------------|------------|------------------------|--------------|-------------|------------|-------------------|----------|
| I LA-IVI SERIES |       | Group            | M-NET      | Wi-Fi 1))<br>Interface | ning-free,   | Pump        | Flare      | 4                 | Failur   |
| POWER INVERTER  |       | Control          | connection | Interface              | pipe reuse   | Down        | connection | Self<br>Diagnosis | Reca     |

| Type             |                     |              |        | Inverter Heat Pump                               |   |  |  |  |  |  |  |
|------------------|---------------------|--------------|--------|--|---|--|--|--|--|--|--|
| Indoor Un        | it                  |              |        | PEA-M200LA                                       | PEA-M250LA  |  |  |  |  |  |  |
| Outdoor l        | Jnit                |              |        | PUZ-ZM200YKA                                     | PUZ-ZM250YKA  |  |  |  |  |  |  |
| Refrigerar       | nt                  |              |        | R3   | 2*1   |  |  |  |  |  |  |
|                  | Source              |              |        |  | ower supply   |  |  |  |  |  |  |
| Supply           | Outdoor (V/Phase    | e/Hz)        |        | 400 / TI   | nree / 50   |  |  |  |  |  |  |
| Cooling          | Capacity            | Rated        | kW     | 19.0   | 22.0  |  |  |  |  |  |  |
|                  |                     | Min - Max    | kW     | 9.2 - 22.4                                       | 9.9 - 27.0  |  |  |  |  |  |  |
|                  | Total Input         | Rated        | kW     | 5.757  | 7.213   |  |  |  |  |  |  |
|                  | EER                 |              |        | 3.30   | 3.05  |  |  |  |  |  |  |
|                  |                     | EEL Rank     |        | -  | -   |  |  |  |  |  |  |
| Heating          | Capacity            | Rated        | kW     | 22.4   | 27.0  |  |  |  |  |  |  |
| (Average Season) |                     | Min - Max    | kW     | 7.1 - 25.0                                       | 7.3 - 31.0  |  |  |  |  |  |  |
| Season)          | Total Input         | Rated        | kW     | 6.400  | 7.941   |  |  |  |  |  |  |
|                  | COP                 |              |        | 3.50   | 3.40  |  |  |  |  |  |  |
|                  |                     | EEL Rank     |        | -  | -   |  |  |  |  |  |  |
|                  | g Current (max)     |              |        | 25.7   | 25.9  |  |  |  |  |  |  |
| Indoor           | Input [Cooling / He | 0.           | kW     | 0.35 / 0.35                                      | 0.53 / 0.53   |  |  |  |  |  |  |
| Unit             | Operating Curren    |              | А      | 3.1  | 3.4   |  |  |  |  |  |  |
|                  | Dimensions          | H x W x D    | mm     | 470 - 13   | 70 - 1120   |  |  |  |  |  |  |
|                  | Weight              |              | kg     |  | 37  |  |  |  |  |  |  |
|                  | Air Volume [Lo-M    |              | m³/min | 42 - 51 - 60 (60Pa - 150Pa) 42 - 51 - 55 (200Pa) | 50 - 61 - 72 (60Pa - 100Pa) 45 - 55 - 65 (150Pa) 45 - 50 - 55 (200Pa) |  |  |  |  |  |  |
|                  | External Static Pr  |              | Pa     |  | 0) / (150) / (200)  |  |  |  |  |  |  |
|                  | Sound Level (SPL    |              | dB(A)  | 35 - 40 - 43                                     | 38 - 43 - 47  |  |  |  |  |  |  |
|                  | Sound Level (PWI    |              | dB(A)  | 63 - 64 - 64                                     | 67 - 67 - 68  |  |  |  |  |  |  |
|                  | Dimensions          | H x W x D    | mm     |  | ) - 330 (+40)   |  |  |  |  |  |  |
| Unit             | Weight              |              | kg     | 137  | 138   |  |  |  |  |  |  |
|                  | Air Volume          | Cooling      | m³/min | 140  | 140   |  |  |  |  |  |  |
|                  |                     | Heating      | m³/min | 140  | 140   |  |  |  |  |  |  |
|                  | Sound Level (SPL    |              | dB(A)  | 59   | 59  |  |  |  |  |  |  |
|                  |                     | Heating      | dB(A)  | 62   | 62  |  |  |  |  |  |  |
|                  | Sound Level (PWL    |              | dB(A)  | 77   | 77  |  |  |  |  |  |  |
|                  | Operating Curren    | t (max)      | A      | 22.5   | 22.5  |  |  |  |  |  |  |
|                  | Breaker Size        |              | А      | 32   | 32  |  |  |  |  |  |  |
| Ext.             | Diameter            | Liquid / Gas | mm     | 9.52 / 25.4                                      | 12.7 / 25.4   |  |  |  |  |  |  |
| Piping           | Max. Length         | Out-In       | m      | 100  | 100   |  |  |  |  |  |  |
|                  | Max. Height         | Out-In       | m      | 30   | 30  |  |  |  |  |  |  |
|                  | ed Operating Range  | Cooling*2    | ℃      | -15 ~ +46  | -15 ~ +46   |  |  |  |  |  |  |
| [Outdoor]        |                     | Heating      | ℃      | -20 ~ +21  | -20 ~ +21   |  |  |  |  |  |  |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
\*2 Optional air protection guide is required where ambient temperature is lower than -5°C.





























| PEA-M SERIES      |
|-------------------|
| STANDARD INVERTER |
|                   |























| SIANUA    | KU INVEKIEK         |                | Optional Optional | Optional Optional                                |   |
|-----------|---------------------|----------------|-------------------|--|---|
| Туре      |                     |                |                   | Inverte  | r Heat Pump   |
| Indoor Ur | nit                 |                |                   | PEA-M200LA                                       | PEA-M250LA  |
| Outdoor   | Unit                |                |                   | PUZ-M200YKA                                      | PUZ-M250YKA   |
| Refrigera | nt                  |                |                   |  | R32*1   |
| Power     | Source              |                |                   | Separate   | power supply  |
| Supply    | Outdoor (V/Phas     | e/Hz)          |                   | 400 /  | Three / 50  |
| Cooling   | Capacity            | Rated          | kW                | 19.0   | 22.0  |
|           |                     | Min - Max      | kW                | 9.2 - 22.4                                       | 9.9 - 27.0  |
|           | Total Input         | Rated          | kW                | 6.089  | 7.333   |
|           | EER                 |                | ·                 | 3.12   | 3.00  |
|           |                     | EEL Rank       |                   | -  | -   |
| Heating   |                     | Rated          | kW                | 22.4   | 27.0  |
| (Average  | •                   | Min - Max      | kW                | 6.8 - 25.0                                       | 7.3 - 31.0  |
| Season)   | Total Input         | Rated          | kW                | 6.588  | 8.181   |
|           | СОР                 |                | ·                 | 3.40   | 3.30  |
|           |                     | EEL Rank       |                   | -  | -   |
| Operatin  | g Current (max)     |                |                   | 25.7   | 25.9  |
| Indoor    | Input [Cooling / He | eating] Rated  | kW                | 0.35 / 0.35                                      | 0.53 / 0.53   |
| Unit      | Operating Curren    | nt (max)       | A                 | 3.1  | 3.4   |
|           | Dimensions          | H x W x D      | mm                | 470 -  | 1370 - 1120   |
|           | Weight              | · ·            | kg                |  | 87  |
|           | Air Volume [Lo-M    | lid-Hi]        | m³/min            | 42 - 51 - 60 (60Pa - 150Pa) 42 - 51 - 55 (200Pa) | 50 - 61 - 72 (60Pa - 100Pa) 45 - 55 - 65 (150Pa) 45 - 50 - 55 (200Pa) |
|           | External Static Pr  | ressure        | Pa                | (60) / 75 / (                                    | 100) / (150) / (200)  |
|           | Sound Level (SPL    | .) [Lo-Mid-Hi] | dB(A)             | 35 - 40 - 43                                     | 38 - 43 - 47  |
|           | Sound Level (PW     | L)             | dB(A)             | 63 - 64 - 64                                     | 67 - 67 - 68  |
|           | Dimensions          | H x W x D      | mm                | 1338 - 10  | 050 - 330 (+40)   |
| Unit      | Weight              |                | kg                | 129  | 138   |
|           | Air Volume          | Cooling        | m³/min            | 140  | 140   |
|           |                     | Heating        | m³/min            | 140  | 140   |
|           | Sound Level (SPL    | .) Cooling     | dB(A)             | 58   | 59  |
|           |                     | Heating        | dB(A)             | 60   | 62  |
|           | Sound Level (PWL    | -) Cooling     | dB(A)             | 78   | 77  |
|           | Operating Curren    | nt (max)       | A                 | 22.5   | 22.5  |
|           | Breaker Size        |                | A                 | 32   |   |
| Ext.      | Diameter            | Liquid / Gas   | mm                | 9.52 / 25.4                                      | 12.7 / 25.4   |
| Piping    | Max. Length         | Out-In         | m                 | 70   | 70  |
|           | Max. Height         | Out-In         | m                 | 30   | 30  |
|           | ed Operating Range  | Cooling*2      | °C                | -15 ~ +46  | -15 ~ +46   |
| [Outdoor] | ]                   | Heating        | ℃                 | -20 ~ +21  | -20 ~ +21   |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
\*2 Optional air protection guide is required where ambient temperature is lower than -5°C.





























































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| Туре      |                     |                |        | Inver  | ter Heat Pump  |  |  |  |  |  |
|-----------|---------------------|----------------|--------|--|--|--|--|--|--|--|
| Indoor U  | nit                 | ·              |        | PEA-M200LA                                       | PEA-M250LA   |  |  |  |  |  |
| Outdoor   | Unit                |                |        | PUHZ-ZRP200YKA3                                  | PUHZ-ZRP250YKA3  |  |  |  |  |  |
| Refrigera | int                 |                |        |  | R410A*1  |  |  |  |  |  |
| Power     | Source              |                |        | Separa   | te power supply  |  |  |  |  |  |
| Supply    | Outdoor (V/Phas     | e/Hz)          |        | 400  | ) / Three / 50   |  |  |  |  |  |
| Cooling   | Capacity            | Rated          | kW     | 19.0   | 22.0   |  |  |  |  |  |
|           |                     | Min - Max      | kW     | 9.0 - 22.4                                       | 11.2 - 27.0  |  |  |  |  |  |
|           | Total Input         | Rated          | kW     | 5.937  | 7.971  |  |  |  |  |  |
|           | EER                 | <u> </u>       |        | 3.20   | 2.76   |  |  |  |  |  |
|           |                     | EEL Rank       |        | -  | -  |  |  |  |  |  |
| Heating   | Capacity            | Rated          | kW     | 22.4   | 27.0   |  |  |  |  |  |
| (Average  | •                   | Min - Max      | kW     | 9.5 -25.0  | 12.5 - 31.0  |  |  |  |  |  |
| Season)   | Total Input         | Rated          | kW     | 6.530  | 8.181  |  |  |  |  |  |
|           | СОР                 | <u> </u>       | .      | 3.43   | 3.30   |  |  |  |  |  |
|           |                     | EEL Rank       |        | -  | -  |  |  |  |  |  |
| Operatir  | ng Current (max)    |                |        | 22.2   | 24.4   |  |  |  |  |  |
| Indoor    | Input [Cooling / He | eating] Rated  | kW     | 0.35 / 0.35                                      | 0.53 / 0.53  |  |  |  |  |  |
| Unit      | Operating Currer    | nt (max)       | A      | 3.1  | 3.4  |  |  |  |  |  |
|           | Dimensions          | HxWxD          | mm     | 470  | - 1370 - 1120  |  |  |  |  |  |
|           | Weight              | <u>'</u>       | kg     |  | 87   |  |  |  |  |  |
|           | Air Volume [Lo-M    | lid-Hi]        | m³/min | 42 - 51 - 60 (60Pa - 150Pa) 42 - 51 - 55 (200Pa) | 50 - 61 - 72 (60Pa - 100Pa) 45 - 55 - 65 (150Pa) 45 - 50 - 55 (200Pa |  |  |  |  |  |
|           | External Static Pr  | ressure        | Pa     | (60) / 75 /                                      | (100) / (150) / (200)  |  |  |  |  |  |
|           | Sound Level (SPL    | .) [Lo-Mid-Hi] | dB(A)  | 35 - 40 - 43                                     | 38 - 43 - 47   |  |  |  |  |  |
|           | Sound Level (PW     | L)             | dB(A)  | 63 - 64 - 64                                     | 67 - 67 - 68   |  |  |  |  |  |
|           | Dimensions          | H x W x D      | mm     | 1338 -   | 1050 - 330 (+40)   |  |  |  |  |  |
| Unit      | Weight              | •              | kg     |  | 135  |  |  |  |  |  |
|           | Air Volume          | Cooling        | m³/min |  | 140  |  |  |  |  |  |
|           |                     | Heating        | m³/min |  | 140  |  |  |  |  |  |
|           | Sound Level (SPL    | .) Cooling     | dB(A)  |  | 59   |  |  |  |  |  |
|           |                     | Heating        | dB(A)  |  | 62   |  |  |  |  |  |
|           | Sound Level (PWL    | .) Cooling     | dB(A)  |  | 77   |  |  |  |  |  |
|           | Operating Curren    | nt (max)       | A      | 19.0   | 21.0   |  |  |  |  |  |
|           | Breaker Size        |                | A      |  | 32   |  |  |  |  |  |
| Ext.      | Diameter            | Liquid / Gas   | mm     | 9.52 / 25.4                                      | 12.7 / 25.4  |  |  |  |  |  |
| Piping    | Max. Length         | Out-In         | m      |  | 100  |  |  |  |  |  |
|           | Max. Height         | Out-In         | m      |  | 30   |  |  |  |  |  |
|           | ed Operating Range  | Cooling*2      | °C     | -  | 15 ~ +46   |  |  |  |  |  |
| [Outdoor  | ]                   | Heating        | °C     | -20 ~ +21  |  |  |  |  |  |  |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
\*2 Optional air protection guide is required where ambient temperature is lower than -5°C.







































































| STANDA    | RD INVERTER         | Connectio     | Interface | Down connection Self Diagnosis Recall            |   |
|-----------|---------------------|---------------|-----------|--|---|
| Type      |                     |               |           | Inverter   | Heat Pump   |
| Indoor U  | nit                 |               |           | PEA-M200LA                                       | PEA-M250LA  |
| Outdoor   | Jnit                |               |           | PUHZ-P200YKA3                                    | PUHZ-P250YKA3   |
| Refrigera | nt                  |               |           | R4   | 10A*1   |
| Power     | Source              |               |           | Separate p                                       | power supply  |
| Supply    | Outdoor (V/Phase    | e/Hz)         |           | 400 / T  | hree / 50   |
| Cooling   | Capacity            | Rated         | kW        | 19.0   | 22.0  |
|           |                     | Min - Max     | kW        | 9.0 - 22.4                                       | 11.2 - 27.0   |
|           | Total Input         | Rated         | kW        | 6.188  | 8.058   |
|           | EER                 |               |           | 3.07   | 2.73  |
|           |                     | EEL Rank      |           | -  | -   |
| Heating   | Capacity            | Rated         | kW        | 22.4   | 27.0  |
| (Average  |                     | Min - Max     | kW        | 9.5 - 25.0                                       | 12.5 - 31.0   |
| Season)   | Total Input         | Rated         | kW        | 6.706  | 8.437   |
|           | СОР                 |               |           | 3.34   | 3.20  |
|           |                     | EEL Rank      |           | -  | -   |
| Operatin  | g Current (max)     |               |           | 22.2   | 24.4  |
| Indoor    | Input [Cooling / He | eating] Rated | kW        | 0.35 / 0.35                                      | 0.53 / 0.53   |
| Unit      | Operating Curren    | t (max)       | A         | 3.1  | 3.4   |
|           | Dimensions          | H x W x D     | mm        | 470 - 13   | 370 - 1120  |
|           | Weight              | <u>'</u>      | kg        |  | 87  |
|           | Air Volume [Lo-M    | id-Hi]        | m³/min    | 42 - 51 - 60 (60Pa - 150Pa) 42 - 51 - 55 (200Pa) | 50 - 61 - 72 (60Pa - 100Pa) 45 - 55 - 65 (150Pa) 45 - 50 - 55 (200Pa) |
|           | External Static Pr  | essure        | Pa        | (60) / 75 / (10                                  | 0) / (150) / (200)  |
|           | Sound Level (SPL    |               | dB(A)     | 35 - 40 - 43                                     | 38 - 43 - 47  |
|           | Sound Level (PWI    | L)            | dB(A)     | 63 - 64 - 64                                     | 67 - 67 - 68  |
|           | Dimensions          | H x W x D     | mm        | 1338 - 105                                       | 0 - 330 (+40)   |
| Unit      | Weight              |               | kg        | 127  | 135   |
|           | Air Volume          | Cooling       | m³/min    | 140  | 140   |
|           |                     | Heating       | m³/min    | 140  | 140   |
|           | Sound Level (SPL    | ) Cooling     | dB(A)     | 58   | 59  |
|           |                     | Heating       | dB(A)     | 60   | 62  |
|           | Sound Level (PWL    | ) Cooling     | dB(A)     | 78   | 77  |
|           | Operating Curren    | it (max)      | A         | 19.0   | 21.0  |
|           | Breaker Size        |               | A         | 32   | 32  |
| Ext.      | Diameter            | Liquid / Gas  | mm        | 9.52 / 25.4                                      | 12.7 / 25.4   |
| Piping    | Max. Length         | Out-In        | m         | 70   | 70  |
|           | Max. Height         | Out-In        | m         | 30   | 30  |
|           | ed Operating Range  | Cooling*2     | °C        | -15 ~ +46  | -15 ~ +46   |
| [Outdoor  |                     | Heating       | °C        | -20 ~ +21  | -20 ~ +21   |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
\*2 Optional air protection guide is required where ambient temperature is lower than -5°C.



# PKA SERIES

The compact, wall-mounted indoor units offer the convenience of simple installation, and a large product line-up (M35-M100 models) ensures a best-match solution. Designed for highly efficient energy savings, the PKA Series is the answer to your air conditioning needs.

# New Design (M35-50)

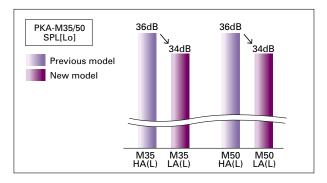
A sharp and simple form that combines beauty and function. The simple square design harmonizes beautifully with the straight lines created by the intersection of the walls, floor and ceiling of the space, leading to a better quality of space. Also adopted a new white body color. It will make your life and space beautiful and comfortable without disturbing the atmosphere of the room. In addition, we realized miniaturization of conventional model. It contributes to space saving of installation area and giving room to room space.



# Quietness (M35-50)

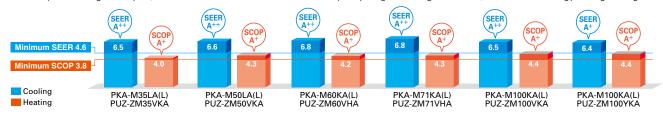
The noise level has been significantly reduced compared to the conventional model by reviewing the unit structure and improving the line flow fan.





# ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

Highly efficient indoor unit heat exchangers and and newly designed power inverters (PUHZ-ZM) contribute to an amazing reduction in electricity consumption throughout a year, and have resulted in models in the full-capacity range attaining the rank A, A+ and A++ energy savings rating.



Airflow distributions

0

### Airflow Control - Horizontal Airflow - (M35-50)

Significantly improved airflow control to achieve horizontal airflow. This reduces the feeling of draft even on a wall-mounted model, and air conditioning the indoor space firmly.

# 

Floor distance (m)

2



PKA-M LA(L)/KA(L) Indoor Unit Combinations Indoor unit combinations shown below are possible.

|                           | Outdoor Unit Capacity |            |      |      |      |       |     |     |     |     |  |      |                        |      |       |            |      |      |               |      |      |
|---------------------------|-----------------------|------------|------|------|------|-------|-----|-----|-----|-----|--|------|------------------------|------|-------|------------|------|------|---------------|------|------|
| Indoor Unit Combination   |                       | For Single |      |      |      |       |     |     |     |     | For Twin                                   |      |                        |      |       | For Triple |      |      | For Quadruple |      |      |
|                           |                       | 35         | 50   | 60   | 71   | 100   | 125 | 140 | 200 | 250 | 71   | 100  | 125                    | 140  | 200   | 250        | 140  | 200  | 250           | 200  | 250  |
| Power Inverter (PUHZ-ZRP) |                       | 35x1       | 50x1 | 60x1 | 71x1 | 100x1 | -   | -   | -   | -   | 35x2                                       | 50x2 | 60x2                   | 71x2 | 100x2 | -          | 50x3 | 60x3 | 71x3          | 50x4 | 60x4 |
|                           | Distribution Pipe     | -          | -    | -    | -    | -     | -   | -   | -   | -   | - MSDD-50TR2-E MSDD-<br>50WR2-E - MSDT-111 |      | 1R3-E MSDF-<br>1111R2- |      |       |            |      |      |               |      |      |



PKA-M LA/KA Indoor Unit Combinations Indoor unit combinations shown below are possible.

|        |                      | Outdoor Unit Capacity |    |    |    |       |     |     |     |     |                                 |      |      |              |       |            |                   |      |               |      |      |
|--------|----------------------|-----------------------|----|----|----|-------|-----|-----|-----|-----|---------------------------------|------|------|--------------|-------|------------|-------------------|------|---------------|------|------|
| Indoor | Unit Combination     | For Single            |    |    |    |       |     |     |     |     | For Twin                        |      |      |              |       | For Triple |                   |      | For Quadruple |      |      |
|        |                      |                       | 50 | 60 | 71 | 100   | 125 | 140 | 200 | 250 | 71                              | 100  | 125  | 140          | 200   | 250        | 140               | 200  | 250           | 200  | 250  |
| Standa | rd Inverter (PUHZ-P) | -                     | -  | -  | -  | 100x1 | -   | -   | -   | -   | -                               | 50x2 | 60x2 | 71x2         | 100x2 | -          | 50x3              | 60x3 | 71x3          | 50x4 | 60x4 |
|        | Distribution Pipe    | -                     | -  | -  | -  | -     | -   |     | -   | -   | MSDD-50TR2-E MSDD-<br>50WR2-E - |      | MSE  | MSDT-111R3-E |       |            | MSDF-<br>1111R2-E |      |               |      |      |

# PKA-M SERIES







































| Wi-Fi ))<br>Interface | COMPO | Cleaning-free,<br>pipe reuse | Wiring<br>Reuse | Drain<br>Lift Up | Pump<br>Down | Flare connection | Self<br>Diagnosis | Failure<br>Recall |
|-----------------------|-------|------------------------------|-----------------|------------------|--------------|------------------|-------------------|-------------------|

| T             |                            |                                |                 |                        | •                      | 1                        |                          |                        |                        |
|---------------|----------------------------|--------------------------------|-----------------|------------------------|------------------------|--------------------------|--------------------------|------------------------|------------------------|
| Туре          | •                          |                                |                 |                        |                        | Inverter H               |                          |                        |                        |
| Indoor U      |                            |                                |                 | PKA-M35LA(L)           | PKA-M50LA(L)           | PKA-M60KA(L)             | PKA-M71KA(L)             | PKA-M1                 |                        |
| Dutdoor       |                            |                                |                 | PUZ-ZM35VKA            | PUZ-ZM50VKA            | PUZ-ZM60VHA              | PUZ-ZM71VHA              | PUZ-ZM100VKA           | PUZ-ZM100YKA           |
| Refrigera     |                            |                                |                 |                        |                        |                          | 2*1                      |                        |                        |
| ower          | Source                     |                                |                 |                        |                        |                          | ower supply              |                        |                        |
| Supply        | Outdoor (V/Phase           | e/Hz)                          |                 |                        |                        | VKA · VHA:230 / Single / | 50, YKA:400 / Three / 50 |                        |                        |
| Cooling       | Capacity                   | Rated                          | kW              | 3.6                    | 4.6                    | 6.1                      | 7.1                      | 9.5                    | 9.5                    |
|               |                            | Min - Max                      | kW              | 1.6 - 4.5              | 2.3 - 5.6              | 2.7 - 6.7                | 3.3 - 8.1                | 4.9 - 11.4             | 4.9 - 11.4             |
|               | Total Input                | Rated                          | kW              | 0.850                  | 1.230                  | 1.560                    | 1.863                    | 2.405                  | 2.405                  |
|               | EER                        | •                              |                 | 4.20                   | 3.71                   | 3.91                     | 3.81                     | 3.95                   | 3.95                   |
|               |                            | EEL Rank                       |                 | _                      | -                      | -                        | -                        | -                      | -                      |
|               | Design Load                | •                              | kW              | 3.6                    | 4.6                    | 6.1                      | 7.1                      | 9.5                    | 9.5                    |
|               | Annual Electricity         | Consumption*2                  | kWh/a           | 194                    | 244                    | 313                      | 364                      | 508                    | 519                    |
|               | SEER*4                     | •                              |                 | 6.5                    | 6.6                    | 6.8                      | 6.8                      | 6.5                    | 6.4                    |
|               |                            | Energy Efficiency Clas         | s               | A++                    | A++                    | A++                      | A++                      | A++                    | A++                    |
| eating        | Capacity                   | Rated                          | kW              | 4.1                    | 5.0                    | 7.0                      | 8.0                      | 11.2                   | 11.2                   |
| verage        |                            | Min - Max                      | kW              | 1.6 - 5.2              | 2.5 - 6.6              | 2.8 - 8.2                | 3.5 - 10.2               | 4.5 - 14.0             | 4.5 - 14.0             |
| eason)        | Total Input                | Rated                          | kW              | 1.040                  | 1.340                  | 1.732                    | 2.116                    | 3.102                  | 3.102                  |
|               | COP                        |                                |                 | 3.94                   | 3.72                   | 4.04                     | 3.78                     | 3.61                   | 3.61                   |
|               |                            | EEL Rank                       |                 | -                      | _                      | ı                        | -                        | -                      | -                      |
|               | Design Load                |                                | kW              | 2.4                    | 3.3                    | 4.4                      | 4.7                      | 7.8                    | 7.8                    |
|               | <b>Declared Capacity</b>   | at reference design temperatur |                 | 2.4 (-10°C)            | 3.3 (-10°C)            | 4.4 (-10°C)              | 4.7 (-10°C)              | 7.8 (-10°C)            | 7.8 (-10°C)            |
|               |                            | at bivalent temperature        | kW              | 2.4 (-10°C)            | 3.3 (-10°C)            | 4.4 (-10°C)              | 4.7 (-10°C)              | 7.8 (-10°C)            | 7.8 (-10°C)            |
|               |                            | at operation limit temperature |                 | 2.2 (-11°C)            | 3.2 (-11°C)            | 2.8 (-20°C)              | 3.5 (-20°C)              | 5.8 (-20°C)            | 5.8 (-20°C)            |
|               | Back Up Heating (          |                                | kW              | 0                      | 0                      | 0                        | 0                        | 0                      | 0                      |
|               | Annual Electricity         | Consumption*2                  | kWh/a           | 829                    | 1074                   | 1460                     | 1523                     | 2472                   | 2472                   |
|               | SCOP*4                     |                                |                 | 4.0                    | 4.3                    | 4.2                      | 4.3                      | 4.4                    | 4.4                    |
|               |                            | <b>Energy Efficiency Clas</b>  |                 | A+                     | Α+                     | Α+                       | A <sup>+</sup>           | A <sup>+</sup>         | Α+                     |
|               | ng Current (max)           |                                | A               | 13.4                   | 13.4                   | 19.4                     | 19.4                     | 27.1                   | 8.6                    |
| door          | Input                      | Rated                          | kW              | 0.04 / 0.03            | 0.04 / 0.03            | 0.06 / 0.05              | 0.06 / 0.05              | 0.08 / 0.07            | 0.08 / 0.07            |
| nit           | Operating Current          |                                | A               | 0.35                   | 0.35                   | 0.43                     | 0.43                     | 0.57                   | 0.57                   |
|               | Dimensions <panel></panel> | [H×W×D                         | mm              | 299 - 89               |                        |                          | 365 - 11                 |                        |                        |
|               | Weight <panel></panel>     |                                | kg              | 12.6                   | 12.6                   | 21                       | 21                       | 21                     | 21                     |
|               | Air Volume [Lo-Mi          |                                | m³/min          | 7.5 - 8.2 - 9.2 - 10.9 | 7.5 - 8.2 - 9.2- 10.9  | 18 - 20 - 22             | 18 - 20 - 22             | 20 - 23 - 26           | 20 - 23 - 26           |
|               | Sound Level (SPL)          |                                | dB(A)           | 34 - 37 - 40 - 43      | 34 - 37 - 40 - 43      | 39 - 42 - 45<br>64       | 39 - 42 - 45             | 41 - 45 - 49<br>65     | 41 - 45 - 49<br>65     |
|               | Sound Level (PWL           |                                | dB(A)           | 60                     | 60                     |                          | 64                       |                        |                        |
| utdoor<br>nit | Dimensions<br>Weight       | H × W × D                      | mm              | 630 - 80               |                        |                          | - 330 (+25)<br>70        | 1338 - 1050<br>116     | ) - 330 (+40)<br>123   |
| 1111          |                            | I Castian                      | kg<br>m³/min    | 46<br>45               | 46<br>45               | 70<br>55                 | 70<br>55                 | 110                    | 110                    |
|               | Air Volume                 | Cooling                        |                 | 45<br>45               | 45<br>45               | 55<br>55                 | 55<br>55                 | 110                    | 110                    |
|               | Sound Level (SPL)          | Heating<br>Cooling             | m³/min<br>dB(A) | 45                     | 45<br>44               | 47                       | 47                       | 49                     | 49                     |
|               | Sound Level (SPL)          | Heating                        | dB(A)           | 44<br>46               | 44                     | 47                       | 47                       | 49<br>51               | 49<br>51               |
|               | Sound Level (PWL)          |                                | dB(A)           | 46<br>65               | 46<br>65               | 49<br>67                 | 49<br>67                 | 69                     | 69                     |
|               | Operating Current          |                                | A A             | 13.0                   | 13.0                   | 19.0                     | 19.0                     | 26.5                   | 8.0                    |
|               | Breaker Size               | (IIIdX)                        | A               | 16                     | 16                     | 25                       | 25                       | 32                     | 16                     |
| xt.           | Diameter                   | Liquid / Gas                   | mm              | 6.35 / 12.7            | 6.35 / 12.7            | 9.52 / 15.88             | 9.52 / 15.88             | 9.52 / 15.88           | 9.52 / 15.88           |
|               | Max. Length                | Out-In                         | m               | 50                     | 50                     | 9.52 / 15.88<br>55       | 9.52 / 15.88             | 100                    | 100                    |
| iping         | Max. Height                | Out-In                         | m               | 30                     | 30                     | 30                       | 30                       | 30                     | 30                     |
| Luaranta      | ed Operating Range         |                                | °C              | 30<br>15 ~ +46         | -15 ~ +46              | -15 ~ +46                | -15 ~ +46                | -15 ~ +46              | -15 ~ +46              |
| Dutdoor       | eu Operating Range         |                                | *C              | -15 ~ +46<br>-11 ~ +21 | -15 ~ +46<br>-11 ~ +21 | -15 ~ +46<br>-20 ~ +21   | -15 ~ +46<br>-20 ~ +21   | -15 ~ +46<br>-20 ~ +21 | -15 ~ +46<br>-20 ~ +21 |
| JULUUUI       | 1                          | Heating                        | ا.ر             | -11 ~ +21              | -II ~ +ZI              | -2U ~ +2 I               | -2U ~ +2 I               | -2U ~ +21              | -2U ~ +2I              |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
\*3 Optional air protection guide is required where ambient temperature is lower than -5°C.
\*4 SEER and SCOP are based on 2009/125/EC.Energy-related Products Directive and Regulation(EU) No206/2012.











































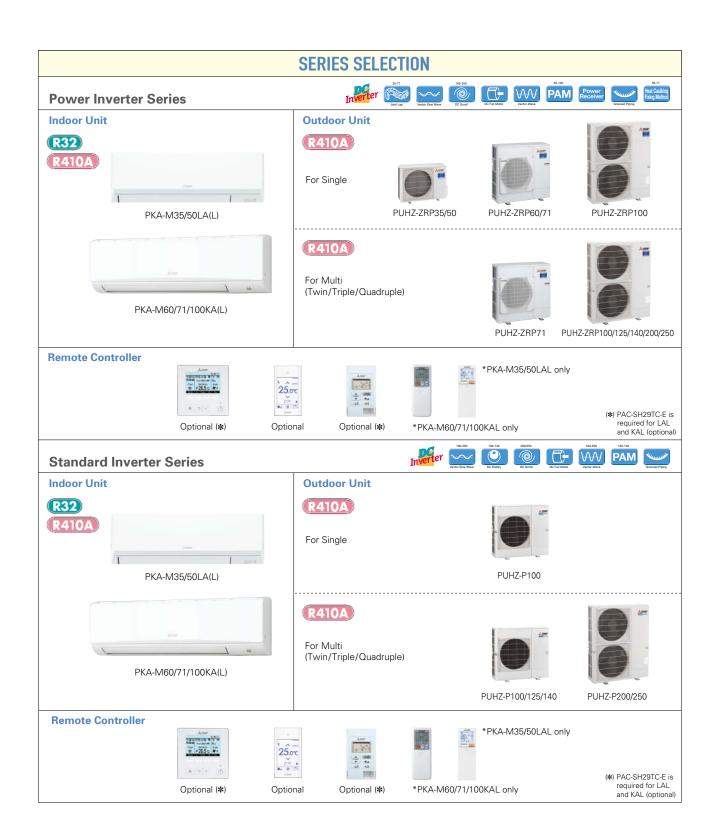








| Supply                           | Jnit<br>nt<br>Source<br>Outdoor (V/Phase<br>Capacity   |  |   |  |  |
|----------------------------------|--|--|---|--|--|
| frigerar<br>wer<br>pply<br>oling | nt<br>Source<br>Outdoor (V/Phase<br>Capacity   |  |   | PKA-M10  | 00KA(L)  |
| wer<br>ipply<br>ooling           | Source<br>Outdoor (V/Phase<br>Capacity   |  |   | PUZ-M100VKA  | PUZ-M100YKA  |
| pply<br>oling                    | Outdoor (V/Phase<br>Capacity   |  |   | R32  | *1   |
| oling                            | Capacity   |  |   | Outdoor pow  | ver supply   |
|                                  |  | /Hz)   |   | 230 / Single / 50  | 400 / Three /50  |
|                                  | T  | Rated  | kW  | 9.5  | 9.5  |
|                                  | T  | Min - Max  | kW  | 4.0 - 10.6   | 4.0 - 10.6   |
|                                  | Total Input  | Rated  | kW  | 2.94   | 2.94   |
|                                  | EER  |  |   | 3.23   | 3.23   |
|                                  |  | EEL Rank   |   | -  | -  |
|                                  | Design Load  |  | kW  | 9.5  | 9.5  |
|                                  | <b>Annual Electricity</b>  | Consumption*2  | kWh/a   | 572  | 572  |
| J                                | SEER*4   |  |   | 5.8  | 5.8  |
|                                  |  | Energy Efficiency Class  |   | A <sup>+</sup>   | A+   |
|                                  | Capacity   | Rated  | kW  | 11.2   | 11.2   |
| erage                            |  | Min - Max  | kW  | 2.8 - 12.5   | 2.8 - 12.5   |
|                                  | Total Input  | Rated  | kW  | 3.28   | 3.28   |
|                                  | COP  |  |   | 3.41   | 3.41   |
|                                  |  | EEL Rank   |   | -  | <u>-</u>   |
|                                  | Design Load  |  | kW  | 8.0  | 8.0  |
|                                  | Declared Capacity  | at reference design temperature  | kW  | 6.0 (-10°C)  | 6.0 (-10°C)  |
|                                  |  | at bivalent temperature  | kW  | 7.0 (–7°C)   | 7.0 (-7°C)   |
|                                  |  | at operation limit temperature   | kW  | 4.5 (-15°C)  | 4.5 (–15°C)  |
|                                  | Back Up Heating  | Capacity   | kW  | 2.0  | 2.0  |
|                                  | Annual Electricity   | Consumption*2  | kWh/a   | 2797   | 2797   |
|                                  | SCOP*4   |  |   | 4.0  | 4.0  |
|                                  |  | Energy Efficiency Class  |   | A+   | A+   |
|                                  | g Current (max)  | In   | A   | 20.6   | 12.1   |
| door                             |  | Rated  | kW<br>A   | 0.08<br>0.57   | 0.08   |
|                                  | Input  | 7  |   |  |  |
| nit                              | Operating Current  |  |   |  | 0.57   |
| nit                              | Operating Current<br>Dimensions <panel></panel>  |  | mm  | 365 - 1170 - 295   | 365 - 1170 - 295   |
| nit                              | Operating Current<br>Dimensions <panel><br/>Weight <panel></panel></panel>   | H × W × D  | mm<br>kg  | 365 - 1170 - 295<br>21   | 365 - 1170 - 295<br>21   |
| nit                              | Operating Current<br>Dimensions <panel><br/>Weight <panel><br/>Air Volume [Lo-Mi</panel></panel>   | H × W × D<br>d-Hi]   | mm<br>kg<br>m³/min  | 365 - 1170 - 295<br>21<br>20 - 23 - 26   | 365 - 1170 - 295<br>21<br>20 - 23 - 26   |
| nit                              | Operating Current<br>Dimensions <panel><br/>Weight <panel><br/>Air Volume [Lo-Mi<br/>Sound Level (SPL</panel></panel>  | H × W × D<br>d-Hi]<br>[Lo-Mid-Hi]  | mm<br>kg<br>m³/min<br>dB(A)   | 365 - 1170 - 295<br>21<br>20 - 23 - 26<br>41 - 45 - 49   | 365 - 1170 - 295<br>21<br>20 - 23 - 26<br>41 - 45 - 49   |
| nit                              | Operating Current<br>Dimensions <panel><br/>Weight <panel><br/>Air Volume [Lo-Missound Level (SPL<br/>Sound Level (PWIssound (PWIssound Level (PWIssound Level (PWIssound (PWIssound Level (PWIssound (PWIs</panel></panel>  | H × W × D<br>d-Hi]<br>[Lo-Mid-Hi]  | mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)  | 365 - 1170 - 295<br>21<br>20 - 23 - 26<br>41 - 45 - 49<br>65   | 365 - 1170 - 295<br>21<br>20 - 23 - 26<br>41 - 45 - 49<br>65   |
| nit                              | Operating Current<br>Dimensions <panel><br/>Weight <panel><br/>Air Volume [Lo-Mi<br/>Sound Level (SPL<br/>Sound Level (PWI<br/>Dimensions</panel></panel>  | H × W × D<br>d-Hi]<br>[Lo-Mid-Hi]  | mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>mm  | 365 - 1170 - 295<br>21<br>20 - 23 - 26<br>41 - 45 - 49<br>65<br>981 - 1050 - 330 (+40)   | 365 - 1170 - 295<br>21<br>20 - 23 - 26<br>41 - 45 - 49<br>65<br>981 - 1050 - 330 (+40)   |
| utdoor<br>nit                    | Operating Current<br>Dimensions <panel><br/>Weight <panel><br/>Air Volume [Lo-Mi<br/>Sound Level (PWI<br/>Sound Level (PWI<br/>Dimensions<br/>Weight</panel></panel>   | H × W × D<br>J-Hi]<br>[Lo-Mid-Hi]<br>  H × W × D   | mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>mm  | 365 - 1170 - 295<br>21<br>20 - 23 - 26<br>41 - 45 - 49<br>65<br>981 - 1050 - 330 (+40)<br>76   | 365 - 1170 - 295<br>21<br>20 - 23 - 26<br>41 - 45 - 49<br>65<br>981 - 1050 - 330 (+40)<br>78   |
| itdoor<br>nit                    | Operating Current<br>Dimensions <panel><br/>Weight <panel><br/>Air Volume [Lo-Mi<br/>Sound Level (SPL<br/>Sound Level (PWI<br/>Dimensions</panel></panel>  | H × W × D<br>d-Hi]<br>[Lo-Mid-Hi]<br> H × W × D<br> Cooling  | mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>mm<br>kg<br>m³/min                                      | 365 - 1170 - 295<br>21<br>20 - 23 - 26<br>41 - 45 - 49<br>65<br>981 - 1050 - 330 (+40)<br>76<br>79.0                                 | 365 - 1170 - 295<br>21<br>20 - 23 - 26<br>41 - 45 - 49<br>65<br>981 - 1050 - 330 (+40)<br>78<br>79.0                                 |
| itdoor<br>iit                    | Operating Current Dimensions <panel> Weight <panel> Air Volume  Lo-Mi Sound Level (SPL Sound Level (PWI Dimensions Weight Air Volume</panel></panel>   | H × W × D  3-Hi] [Lo-Mid-Hi] ] H × W × D  Cooling Heating  | mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>mm<br>kg<br>m³/min<br>m³/min                            | 365 - 1170 - 295 21 20 - 23 - 26 41 - 45 - 49 65 981 - 1050 - 330 (+40) 76 79.0 79.0   | 365 - 1170 - 295<br>21<br>20 - 23 - 26<br>41 - 45 - 49<br>65<br>981 - 1050 - 330 (+40)<br>78<br>79.0<br>79.0                         |
| itdoor<br>nit                    | Operating Current<br>Dimensions <panel><br/>Weight <panel><br/>Air Volume [Lo-Mi<br/>Sound Level (PWI<br/>Sound Level (PWI<br/>Dimensions<br/>Weight</panel></panel>   | H × W × D  | mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>mm<br>kg<br>m³/min<br>m³/min<br>dB(A)                   | 365 - 1170 - 295  21 20 - 23 - 26 41 - 45 - 49 65 981 - 1050 - 330 (+40) 76 79.0 79.0 51   | 365 - 1170 - 295  21 20 - 23 - 26 41 - 45 - 49 65 981 - 1050 - 330 (+40) 78 79.0 79.0 51   |
| ıtdoor<br>nit                    | Operating Current<br>Dimensions «Panel»<br>Weight «Panel»<br>Air Volume [Lo-M:<br>Sound Level (SPL<br>Sound Level (PWI<br>Dimensions<br>Weight<br>Air Volume<br>Sound Level (SPL)  | H x W x D   3-Hi]   (Lo-Mid-Hi]   3   1   1   1   1   1   1   1   1   1  | mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)                    | 365 - 1170 - 295  21  20 - 23 - 26  41 - 45 - 49  65  981 - 1050 - 330 (+40)  76  79.0  79.0  51                                     | 365 - 1170 - 295  21  20 - 23 - 26  41 - 45 - 49  65  981 - 1050 - 330 (+40)  78  79.0  79.0  51  54                                 |
| utdoor<br>nit                    | Operating Current Dimensions <panels (pwi="" (spl)="" (spl)<="" <panels="" [lo-mi="" air="" dimensions="" level="" sound="" td="" volume="" weight=""><td>  H x W x D                                    </td><td>mm<br/>kg<br/>m³/min<br/>dB(A)<br/>dB(A)<br/>mm<br/>kg<br/>m³/min<br/>dB(A)<br/>dB(A)</td><td>365 - 1170 - 295  21 20 - 23 - 26 41 - 45 - 49 65 981 - 1050 - 330 (+40) 76 79 0 79 0 79 0 79 1 51 54 70</td><td>365 - 1170 - 295  21 20 - 23 - 26 41 - 45 - 49 65 981 - 1050 - 330 (+40) 78 78 79.0 79.0 51 51 54 770</td></panels>   | H x W x D  | mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)                    | 365 - 1170 - 295  21 20 - 23 - 26 41 - 45 - 49 65 981 - 1050 - 330 (+40) 76 79 0 79 0 79 0 79 1 51 54 70                             | 365 - 1170 - 295  21 20 - 23 - 26 41 - 45 - 49 65 981 - 1050 - 330 (+40) 78 78 79.0 79.0 51 51 54 770                                |
| utdoor<br>nit                    | Operating Current<br>Dimensions «Panel»<br>Weight «Panel»<br>Air Volume (Lo-Ni<br>Sound Level (PWI<br>Dimensions<br>Weight<br>Air Volume<br>Sound Level (SPL)<br>Sound Level (SPL)<br>Sound Level (PWI<br>Operating Current  | H x W x D  | mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>dB(A)           | 365 - 1170 - 295  21  20 - 23 - 26  41 - 45 - 49  65  981 - 1050 - 330 (+40)  76  79.0  79.0  51  54  70  20.0                       | 365 - 1170 - 295  21 20 - 23 - 26 41 - 45 - 49 65 981 - 1050 - 330 (+40) 78 79.0 79.0 51 54 70 11.5                                  |
| utdoor<br>nit                    | Operating Curren Dimensions <panels (pwi="" (pwl)="" (spl)="" <panels="" [lo-mi="" air="" curren="" dimensions="" level="" operating="" size<="" sound="" td="" volume="" weight=""><td>  H x W x D   5-Hi]   (Lo-Mid-Hi]   0   1   1   1   1   1   1   1   1   1</td><td>mm<br/>kg<br/>m³/min<br/>dB(A)<br/>dB(A)<br/>mm<br/>kg<br/>m³/min<br/>m³/min<br/>dB(A)<br/>dB(A)<br/>dB(A)</td><td>365 - 1170 - 295  21  20 - 23 - 26  41 - 45 - 49  65  981 - 1050 - 330 (+40)  79.0  79.0  51  54  770  20.0  32</td><td>365 - 1170 - 295  21 20 - 23 - 26 41 - 45 - 49 65 981 - 1050 - 330 (+40) 78 8 79.0 79.0 51 54 70 11.5</td></panels>   | H x W x D   5-Hi]   (Lo-Mid-Hi]   0   1   1   1   1   1   1   1   1   1  | mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>mm<br>kg<br>m³/min<br>m³/min<br>dB(A)<br>dB(A)<br>dB(A) | 365 - 1170 - 295  21  20 - 23 - 26  41 - 45 - 49  65  981 - 1050 - 330 (+40)  79.0  79.0  51  54  770  20.0  32                      | 365 - 1170 - 295  21 20 - 23 - 26 41 - 45 - 49 65 981 - 1050 - 330 (+40) 78 8 79.0 79.0 51 54 70 11.5                                |
| utdoor<br>nit                    | Operating Current Dimensions - Sanels Weight - Panels Air Volume   Lo-Mi Sound Level (SPL Sound Level (PWI Dimensions Weight Air Volume Sound Level (PVI Operating Current Breaker Size Diameter   | H x W x D   3-Hi]   (Lo-Mid-Hi]   3   1   1   1   1   1   1   1   1   1  | mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>dB(A)<br>dB(A)  | 365 - 1170 - 295  21 20 - 23 - 26 41 - 45 - 49 65 981 - 1050 - 330 (+40) 76 79.0 79.0 79.0 51 51 54 70 20.0 32 9.52 / 15 88          | 365 - 1170 - 295  21 20 - 23 - 26 41 - 45 - 49 65 981 - 1050 - 330 (+40) 78 790 790 790 151 54 70 11.5 16                            |
| utdoor<br>nit                    | Operating Curren Dimensions <panels (pwl)="" (spl)="" <panels="" air="" breaker="" curren="" diameter="" dimensions="" length<="" level="" lo-mi="" max.="" operating="" size="" sound="" td="" volume="" weight=""  =""><td>  H x W x D   1-Hi]   (Lo-Mid-Hi]   (Lo-Mid-Hi]   (Lo-Mid-Hi]   (Lo-Mid-Hi]   (Lo-Mid-Hi]   (Lo-Mid-Hi)   (Lo-Mid-</td><td>mm<br/>kg<br/>m³/min<br/>dB(A)<br/>dB(A)<br/>mskg<br/>m³/min<br/>dB(A)<br/>dB(A)<br/>dB(A)<br/>dB(A)</td><td>365 - 1170 - 295  21  20 - 23 - 26  41 - 45 - 49  65  981 - 1050 - 330 (+40)  76  79.0  79.0  51  54  70  20.0  32  9.52 / 15.88  55</td><td>365 - 1170 - 295  21  20 - 23 - 26  41 - 45 - 49  65  981 - 1050 - 330 (+40)  78  79.0  79.0  51  54  70  11.5  16  9.52 / 15.88  55</td></panels> | H x W x D   1-Hi]   (Lo-Mid-Hi]   (Lo-Mid-Hi]   (Lo-Mid-Hi]   (Lo-Mid-Hi]   (Lo-Mid-Hi]   (Lo-Mid-Hi)   (Lo-Mid- | mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>mskg<br>m³/min<br>dB(A)<br>dB(A)<br>dB(A)<br>dB(A)      | 365 - 1170 - 295  21  20 - 23 - 26  41 - 45 - 49  65  981 - 1050 - 330 (+40)  76  79.0  79.0  51  54  70  20.0  32  9.52 / 15.88  55 | 365 - 1170 - 295  21  20 - 23 - 26  41 - 45 - 49  65  981 - 1050 - 330 (+40)  78  79.0  79.0  51  54  70  11.5  16  9.52 / 15.88  55 |
| utdoor<br>nit<br>t.<br>ping      | Operating Current Dimensions - Sanels Weight - Panels Air Volume   Lo-Mi Sound Level (SPL Sound Level (PWI Dimensions Weight Air Volume Sound Level (PVI Operating Current Breaker Size Diameter   | H x W x D   S-Hi]   (Lo-Mid-Hi]   S-Hi]   (Lo-Mid-Hi]   S-Hi]   H x W x D     Cooling   Heating   Cooling   Heating   Cooling   (max)   Liquid / Gas   Out-In   Out-In   Out-In   Out-In   Couling   Couling | mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>mm<br>kg<br>m³/min<br>dB(A)<br>dB(A)<br>dB(A)<br>dB(A)  | 365 - 1170 - 295  21 20 - 23 - 26 41 - 45 - 49 65 981 - 1050 - 330 (+40) 76 79.0 79.0 79.0 51 51 54 70 20.0 32 9.52 / 15 88          | 365 - 1170 - 295  21 20 - 23 - 26 41 - 45 - 49 65 981 - 1050 - 330 (+40) 78 790 790 790 151 54 70 11.5 16                            |



# PKA-M LA/KA Indoor Unit Combinations Indoor unit combinations shown below are possible.

|        |                           |   |      |      |      |         |     |     |     | Outd | oor U | nit Ca <sub>l</sub> | pacity |      |                 |     |      |         |      |        |         |
|--------|---------------------------|---|------|------|------|---------|-----|-----|-----|------|-------|---------------------|--------|------|-----------------|-----|------|---------|------|--------|---------|
| Indoor | Unit Combination          |   |      |      | Fo   | or Sing | gle |     |     |      |       |                     | For    | Twin |                 |     | Fo   | or Trip | le   | For Qu | adruple |
|        |                           |   | 50   | 60   | 71   | 100     | 125 | 140 | 200 | 250  | 71    | 100                 | 125    | 140  | 200             | 250 | 140  | 200     | 250  | 200    | 250     |
| Power  | Power Inverter (PUHZ-ZRP) |   | 50x1 | 60x1 | 71x1 | 100x1   | -   | -   | -   | -    | 35x2  | 50x2                | 60x2   | 71x2 | 100x2           | -   | 50x3 | 60x3    | 71x3 | 50x4   | 60x4    |
|        | Distribution Pipe         | - | -    | -    | -    | -       | -   | -   | -   | -    | N     | MSDD-               | 50TR-  | E    | MSDD-<br>50WR-E | -   | MS   | DT-111  | IR-E | MSDF-1 | 1111R-E |
| Standa | rd Inverter (PUHZ-P)      | - | -    | -    | -    | 100x1   | -   | -   | -   | -    | -     | 50x2                | 60x2   | 71x2 | 100x2           | -   | 50x3 | 60x3    | 71x3 | 50x4   | 60x4    |
|        | Distribution Pipe         | - | -    | -    | -    |         | _   | -   | -   | -    | -     | MSI                 | DD-50  | ΓR-E | MSDD-<br>50WR-E | -   | MS   | DT-111  | IR-E | MSDF-1 | 1111R-E |

# PKA-M SERIES



























| Туре     |   |                                 |          |                        |                        | Inverter F               | eat Pump                 |                 |                  |
|----------|---|---------------------------------|----------|------------------------|------------------------|--------------------------|--------------------------|-----------------|------------------|
| ndoor Ur | nit                                     |                                 |          | PKA-M35LA(L)           | PKA-M50LA(L)           | PKA-M60KA(L)             | PKA-M71KA(L)             | PKA-M1          | 00KA(L)          |
| Outdoor  | Unit                                    |                                 |          | PUHZ-ZRP35VKA2         | PUHZ-ZRP50VKA2         | PUHZ-ZRP60VHA2           | PUHZ-ZRP71VHA2           | PUHZ-ZRP100VKA3 | PUHZ-ZRP100YKA   |
| efrigera | nt                                      |                                 |          |                        |                        | R41                      | 0A*1                     |                 |                  |
| ower     | Source                                  |                                 |          |                        |                        | Outdoor po               | ower supply              |                 |                  |
| upply    | Outdoor (V/Phase                        | /Hz)                            |          |                        |                        | VKA · VHA:230 / Single / | 50, YKA:400 / Three / 50 |                 |                  |
| ooling   | Capacity                                | Rated                           | kW       | 3.6                    | 4.6                    | 6.1                      | 7.1                      | 9.5             | 9.5              |
|          |   | Min - Max                       | kW       | 1.6 - 4.5              | 2.3 - 5.4              | 2.7 - 6.7                | 3.3 - 8.1                | 4.9 - 11.4      | 4.9 - 11.4       |
|          | Total Input                             | Rated                           | kW       | 0.940                  | 1.424                  | 1.60                     | 1.80                     | 2.40            | 2.40             |
|          | EER                                     |                                 |          | 3.80                   | 3.23                   | 3.81                     | 3.94                     | 3.96            | 3.96             |
|          |   | EEL Rank                        |          | _                      | -                      | -                        | -                        | -               | -                |
|          | Design Load                             |                                 | kW       | 3.6                    | 4.6                    | 6.1                      | 7.1                      | 9.5             | 9.5              |
|          | <b>Annual Electricity</b>               | Consumption*2                   | kWh/a    | 206                    | 263                    | 324                      | 368                      | 522             | 533              |
|          | SEER*4                                  |                                 |          | 6.1                    | 6.1                    | 6.5                      | 6.7                      | 6.3             | 6.2              |
|          |   | <b>Energy Efficiency Class</b>  |          | A++                    | A++                    | A++                      | A++                      | A++             | A++              |
|          | Capacity                                | Rated                           | kW       | 4.1                    | 5.0                    | 7.0                      | 8.0                      | 11.2            | 11.2             |
| verage   |   | Min - Max                       | kW       | 1.6 - 5.2              | 2.5 - 7.3              | 2.8 - 8.2                | 3.5 - 10.2               | 4.5 - 14.0      | 4.5 - 14.0       |
| eason)   | Total Input                             | Rated                           | kW       | 1.070                  | 1.501                  | 1.96                     | 2.19                     | 3.04            | 3.04             |
|          | COP                                     |                                 |          | 3.83                   | 3.33                   | 3.57                     | 3.65                     | 3.68            | 3.68             |
|          |   | EEL Rank                        |          | -                      | -                      |                          | _                        | _               |                  |
|          | Design Load                             |                                 | kW       | 2.4                    | 3.3                    | 4.4                      | 4.7                      | 7.8             | 7.8              |
|          | Declared Capacity                       | at reference design temperature |          | 2.4 (-10°C)            | 3.3 (-10°C)            | 4.4 (-10°C)              | 4.7 (-10°C)              | 7.8 (-10°C)     | 7.8 (-10°C)      |
|          |   | at bivalent temperature         | kW       | 2.4 (-10°C)            | 3.3 (-10°C)            | 4.4 (-10°C)              | 4.7 (-10°C)              | 7.8 (–10°C)     | 7.8 (-10°C)      |
|          |   | at operation limit temperature  | kW<br>kW | 2.2 (-11°C)            | 3.2 (-11°C)            | 2.8 (-20°C)              | 3.5 (-20°C)              | 5.8 (-20°C)     | 5.8 (-20°C)<br>0 |
|          | Back Up Heating C<br>Annual Electricity |                                 | kWh/a    | 0<br>841               | 0<br>1126              | 0<br>1473                | 0<br>1532                | 0<br>2608       | 2608             |
|          | SCOP*4                                  | Consumption                     | KVVII/a  | 3.9                    | 4.1                    | 4.2                      | 4.3                      | 4.1             | 4.1              |
|          |   | Energy Efficiency Class         |          | 3.9<br>A               | 4.1<br>A+              | 4.2<br>Δ+                | 4.5<br>A+                | 4.1<br>Δ+       | 4.1<br>A+        |
| neratin  | g Current (max)                         | Lifergy Emiciency oluss         | I A      | 13.4                   | 13.4                   | 19.4                     | 19.4                     | 27.1            | 8.6              |
|          | Input [Cooling / Hea                    | ating   Rated                   | kW       | 0.04 / 0.03            | 0.04 / 0.03            | 0.06                     | 0.06                     | 0.08            | 0.08             |
| nit      | Operating Current                       |                                 | A        | 0.35                   | 0.35                   | 0.43                     | 0.43                     | 0.57            | 0.57             |
|          | Dimensions <panel></panel>              | H × W × D                       | mm       | 299 - 89               |                        | 21.12                    | 365 - 11                 |                 |                  |
|          | Weight <panel></panel>                  | ,                               | ka       | 12.6                   | 12.6                   | 21                       | 21                       | 21              | 21               |
|          | Air Volume [Lo-Mi2                      | 2-Mi1-Hi]                       | m³/min   | 7.5 - 8.2 - 9.2 - 10.9 | 7.5 - 8.2 - 9.2 - 10.9 | 18 - 20 - 22             | 18 - 20 - 22             | 20 - 23 - 26    | 20 - 23 - 26     |
|          | Sound Level (SPL)                       | [Lo-Mi2-Mi1-Hi]                 | dB(A)    | 34 - 37 - 40 - 43      | 34 - 37 - 40 - 43      | 39 - 42 - 45             | 39 - 42 - 45             | 41 - 45 - 49    | 41 - 45 - 49     |
|          | Sound Level (PWL                        |                                 | dB(A)    | 60                     | 60                     | 64                       | 64                       | 65              | 65               |
|          | Dimensions                              | H×W×D                           | mm       |                        | 09 - 300               | 943 - 950                | - 330 (+30)              | 1338 - 1050     | - 330 (+40)      |
| nit      | Weight                                  |                                 | kg       | 43                     | 46                     | 70                       | 70                       | 116             | 123              |
|          | Air Volume                              | Cooling                         | m³/min   | 45                     | 45                     | 55                       | 55                       | 110             | 110              |
|          |   | Heating                         | m³/min   | 45                     | 45                     | 55                       | 55                       | 110             | 110              |
|          | Sound Level (SPL)                       | Cooling                         | dB(A)    | 44                     | 44                     | 47                       | 47                       | 49              | 49               |
|          |   | Heating                         | dB(A)    | 46                     | 46                     | 48                       | 48                       | 51              | 51               |
|          | Sound Level (PWL)                       | Cooling                         | dB(A)    | 65                     | 65                     | 67                       | 67                       | 69              | 69               |
|          | Operating Current                       | (max)                           | A        | 13.0                   | 13.0                   | 19.0                     | 19.0                     | 26.5            | 8.0              |
|          | Breaker Size                            | 11: :1/0                        | Α        | 16                     | 16                     | 25                       | 25                       | 32              | 16               |
| xt.      | Diameter                                | Liquid / Gas                    | mm       | 6.35 / 12.7            | 6.35 / 12.7            | 9.52 / 15.88             | 9.52 / 15.88             | 9.52 / 15.88    | 9.52 / 15.88     |
| iping    | Max. Length                             | Out-In                          | m        | 50                     | 50                     | 50<br>30                 | 50                       | 75              | 75<br>30         |
|          | Max. Height                             | Out-In                          | m        | 30                     | 30                     |                          | 30                       | 30              |                  |
|          | ed Operating Range                      | Cooling*3                       | °C       | -15 ~ +46              | -15 ~ +46              | -15 ~ +46                | -15 ~ +46                | -15 ~ +46       | -15 ~ +46        |
| Outdoor: | J                                       | Heating                         | °C       | -11 ~ +21              | -11 ~ +21              | -20 ~ +21                | -20 ~ +21                | -20 ~ +21       | -20 ~ +21        |

<sup>\*\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP; if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself or 814DA is 2088 in the IPCC 4th Assessment Report.

The GWP of R41DA is 2088 in the IPCC 4th Assessment Report.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 Optional air protection guide is required where ambient temperature is lower than –5°C.

\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.















































| J   | Recall |
|-----|--------|
| Inv |        |
| F   |        |
|     |        |

| Гуре            |   |   |          | Inverte                | er Heat Pump              |
|-----------------|---|---|----------|------------------------|---------------------------|
| door U          | Init                                    |   |          | PKA                    | -M100KA(L)                |
| utdoor          | Unit                                    |   |          | PUHZ-P100VKA           | PUHZ-P100YKA              |
| friger          |   |   |          |                        | R410A*1                   |
| wer             | Source                                  |   |          |                        | or power supply           |
|                 |   | /U-)  |          | 230 / Single / 50      | 400 / Three / 50          |
|                 |   |   | 1347     |                        |                           |
| oling           | Capacity                                | Rated<br>Min - Max  | kW<br>kW | 9.4<br>3.7 - 10.6      | 9.4<br>3.7 - 10.6         |
|                 | T                                       |   |          | 3.7 - 10.6             |                           |
|                 | Total Input<br>EER                      | Rated   | kW       |                        | 3.12<br>3.01              |
|                 | EEK                                     | EEL Rank  |          | 3.01                   |                           |
|                 | Design Load                             | EEL Rank  | kW       | 9.4                    | 9.4                       |
|                 |   | • **  | kWh/a    | 9.4<br>586             | 9.4<br>586                |
|                 | Annual Electricity<br>SEER*4            | Consumption **  | IKAALI/9 | 5.6                    | 5.6                       |
|                 | SECH.                                   | Energy Efficiency Class   |          | 5.6<br>A+              | 5.6<br>A+                 |
| -4:             | Conscitu                                | Rated   | kW       | 11.2                   | 11.2                      |
| atıng<br>rerage | Capacity                                | Min - Max   | kW       | 2.8 - 12.5             | 2.8 - 12.5                |
| erdge           | Total Input                             |   | kW       | 3.48                   | 3.48                      |
| 13011)          | COP                                     | Rated   | KVV      |                        |                           |
|                 | COP                                     | EEL Rank  |          | 3.21                   | 3.21                      |
|                 | Design Load                             | EEL KANK  | kW       | 8.0                    | 8.0                       |
|                 |   | I to the state of | kW       | 6.0 (–10°C)            | 6.0 (–10°C)               |
|                 | Declared Capacity                       | at reference design temperature   |          | 7.0 (–10°C)            | 7.0 (–10°C)               |
|                 |   | at bivalent temperature   | kW       | 4.5 (–15°C)            | 7.0 (=7°C)<br>4.5 (=15°C) |
|                 | D. I. II. II. (* (                      | at operation limit temperature  | kW       | 4.5 (-15°C)<br>2.0     | 4.5 (-15°C)<br>2.0        |
|                 | Back Up Heating (<br>Annual Electricity |   | kWh/a    | 2.0                    | 2.0                       |
|                 | SCOP*4                                  | Consumption   | KVVn/a   | 4.0                    | 4.0                       |
|                 | SCOP                                    | Energy Efficiency Class   |          | 4.0<br>A+              | 4.0<br>A+                 |
|                 | ng Current (max)                        | Ellergy Elliciency Class  | Α        | 20.6                   | 12.1                      |
| oor             | Input                                   | Rated   | kW       | 0.08                   | 0.08                      |
| it              | Operating Current                       |   | A        | 0.06                   | 0.08                      |
|                 | Dimensions <panel></panel>              |   | mm       |                        | - 1170 - 295              |
|                 | Weight <panel></panel>                  | IH X W X D  | kg       | 21                     | - 1170 - 295              |
|                 | Air Volume [Lo-Mi                       | d Uil   | m³/min   | 20 - 23 - 26           | 20 - 23 - 26              |
|                 | Sound Level (SPL)                       |   | dB(A)    | 41 - 45 - 49           | 41 - 45 - 49              |
|                 | Sound Level (PWL                        |   | dB(A)    | 65                     | 65                        |
| tdoo            | r Dimensions                            | H × W × D   | mm       |                        | - 1050 - 330              |
| it              | Weight                                  | III V *V V D  | kg       | 76                     | - 1030 - 330              |
|                 | Air Volume                              | Cooling   | m³/min   |                        | 78                        |
|                 | All Volume                              | Heating   | m³/min   | 79                     | 79                        |
|                 | Sound Level (SPL)                       | Cooling   | dB(A)    | 51                     | 51                        |
|                 | Sound Level (SFL)                       | Heating   | dB(A)    | 54                     | 54                        |
|                 | Sound Level (PWL)                       |   | dB(A)    | 70                     | 70                        |
|                 | Operating Current                       |   | A        | 20.0                   | 11.5                      |
|                 | Breaker Size                            | (IIIua)   | A        | 32                     | 16                        |
| t.              | Diameter                                | Liquid / Gas  | mm       | 9.52 / 15.88           | 9.52 / 15.88              |
| ι.<br>Ding      | Max. Length                             | Out-In  | m        | 50                     | 50                        |
| 9               | Max. Height                             | Out-In  | m        | 30                     | 30                        |
| aran+           | eed Operating Range                     |   | °C       |                        | -15 ~ +46                 |
| utdoo           |   | Heating   | •c       | -15 ~ +46<br>-15 ~ +21 | -15 ~ +40<br>-15 ~ +21    |
| 3,400           | .,                                      | reautiy   |          | -10 ~ +21              | 1 -15 ~ +21               |

<sup>|</sup> Cutadoor| | Heating | \*C | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -15 - ±21 | -



R32
R410A

PCA-M35/50/60/71/100/125/140KA
oth high- and low-ceiling aceptional energy-saving conditioning needs.

A stylish new indoor unit design and airflow settings for both high- and low-ceiling interiors expand installation possibilities. Together with exceptional energy-saving performance, these units are the solution to diversified air conditioning needs.

# Stylish Indoor Unit Design

A stylish square-like design is adopted for the indoor units of all models. As a result, the units blend in better with the ceiling.



PCA-KA

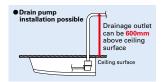
# ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

A direct-current (DC) fan motor is isntalled in the indoor unit, increasing the seasonal energy efficiency of newly designed Power Inverter series (PUHZ-ZM) and resulting in the full capacity models comply ErP Lot 10 with energy ranking A+/A++ for cooling and A/A+ for heating. This contribute to an impressive reduction in the cost of annual electricity.



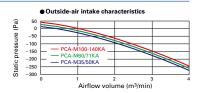
# Optional Drain Pump for Full-capacity Models

The pumping height of the optional drain pump has been increased from 400mm to 600mm, expanding flexibility in choosing unit location during installation work



# Outside-air Intake

Units are equipped with a knock-out hole that enables the induction of fresh outside-air.



# Equipped with Automatic Air-speed Adjustment

In addition to the conventional 4-speed setting, units are now equipped with an automatic air-speed adjustment mode. This setting automatically adjusts the air-speed to conditions that match the room environment. At the start of heating/cooling operation, the airflow is set to high-speed to quickly heat/cool the room. When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable comfortable heating/cooling operation.



# Equipped with High-/Low-ceiling Modes

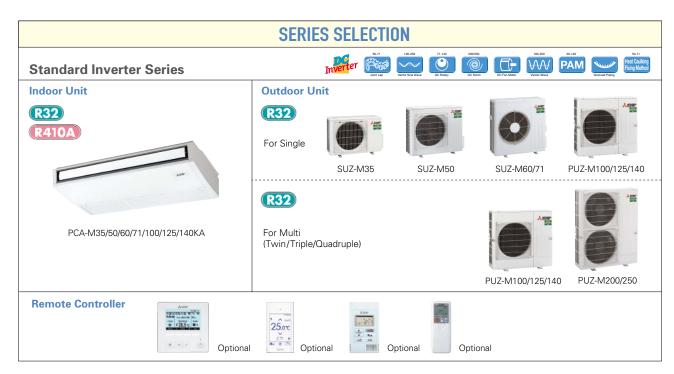
Units are equipped with high- and low-ceiling operation modes that make it possible to switch the airflow volume to match room height. The ability to choose the optimum airflow volume makes it possible to optimize the breezy sensation felt throughout the room.

| Capacity | High<br>ceiling | Standard ceiling | Low<br>ceiling |
|----------|-----------------|------------------|----------------|
| 35       | 3.5m            | 2.7m             | 2.5m           |
| 50       | 3.5m            | 2.7m             | 2.5m           |
| 60       | 3.5m            | 2.7m             | 2.5m           |
| 71       | 3.5m            | 2.7m             | 2.5m           |
| 100      | 4.2m            | 3.0m             | 2.6m           |
| 125      | 4.2m            | 3.0m             | 2.6m           |
| 140      | 4.2m            | 3.0m             | 2.6m           |



### PCZ-M KA Indoor Unit Combinations Indoor unit combinations shown below are possible.

|        |  |   |      |      |      |       |       |       |     | Outd | oor Ur | nit Cap | acity   |      |           |             |      |        |      |      |             |
|--------|--|---|------|------|------|-------|-------|-------|-----|------|--------|---------|---------|------|-----------|-------------|------|--------|------|------|-------------|
| Indoor | Indoor Unit Combination  Power Inverter (PUHZ-ZRP) |   |      |      |      |       |       |       |     |      |        | For Qu  | adruple |      |           |             |      |        |      |      |             |
|        |  |   | 50   | 60   | 71   | 100   | 125   | 140   | 200 | 250  | 71     | 100     | 125     | 140  | 200       | 250         | 140  | 200    | 250  | 200  | 250         |
| Power  |  |   | 50x1 | 60x1 | 71x1 | 100x1 | 125x1 | 140x1 | -   | -    | 35x2   | 50x2    | 60x2    | 71x2 | 100x2     | 125x2       | 50x3 | 60x3   | 71x3 | 50x4 | 60x4        |
|        | Distribution Pipe                                  | - | -    | -    | -    | -     | -     | -     | _   | -    | N      | 1SDD-   | 50TR2   | -E   | MS<br>50W | DD-<br>R2-E | MSE  | OT-111 | R3-E |      | DF-<br>R2-E |



# PCZ-M KA Indoor Unit Combinations Indoor unit combinations shown below are possible.

|        |                           |      |      |      |      |  |       |       |     | Outd | oor U | nit Cap | acity |      |            |             |      |        |      |            |             |
|--------|---------------------------|------|------|------|------|--|-------|-------|-----|------|-------|---------|-------|------|------------|-------------|------|--------|------|------------|-------------|
| Indoor | Indoor Unit Combination   |      |      |      | Fo   | For Single         For Twin         For Triple         For Quadru           71         100         125         140         200         250         71         100         125         140         200         250         140         200         250         200         25 |       |       |     |      |       |         |       |      | adruple    |             |      |        |      |            |             |
|        |                           |      |      | 60   | 71   | 100  | 125   | 140   | 200 | 250  | 71    | 100     | 125   | 140  | 200        | 250         | 140  | 200    | 250  | 200        | 250         |
| Standa | ard Inverter (PUHZ-P&SUZ) | 35x1 | 50x1 | 60x1 | 71x1 | 100x1  | 125x1 | 140x1 | -   | -    | -     | 50x2    | 60x2  | 71x2 | 100x2      | 125x2       | 50x3 | 60x3   | 71x3 | 50x4       | 60x4        |
|        | Distribution Pipe         | -    | -    | -    | -    | -  | ı     | -     | -   | ı    | ı     | MSD     | D-50T | R2-E | MSI<br>50W | DD-<br>R2-E | MSE  | DT-111 | R3-E | MS<br>1111 | DF-<br>R2-E |























































|          |                                   |  | Optional        | Optional           | Optional           | Optional        |                 | _ 🥯              | Optional         | Optional         |                  | Diagnosis        |                 |
|----------|-----------------------------------|--|-----------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| Туре     |                                   |  |                 |                    |                    | _               |                 | Inverter H       | leat Pump        |                  |                  |                  |                 |
| ndoor U  | nit                               |  |                 | PCA-               | PCA-               | PCA-            | PCA-            | DCA N            | 1100KA           | DCA N            | 1125KA           | DCA M            | 1140KA          |
|          |                                   |  |                 | M35KA              | M50KA              | M60KA           | M71KA           |                  |                  |                  |                  |                  |                 |
| Outdoor  | Unit                              |  |                 | PUZ-<br>ZM35VKA    | PUZ-<br>ZM50VKA    | PUZ-<br>ZM60VHA | PUZ-<br>ZM71VHA | PUZ-<br>ZM100VKA | PUZ-<br>ZM100YKA | PUZ-<br>ZM125VKA | PUZ-<br>ZM125YKA | PUZ-<br>ZM140VKA | PUZ-<br>ZM140YI |
| efrigera | nt                                |  |                 |                    |                    |                 |                 | R3               | 2*1              |                  |                  |                  |                 |
| ower     | Source                            |  |                 |                    |                    |                 |                 | Outdoor po       | ower supply      |                  |                  |                  |                 |
| upply    | Outdoor (V/Phase,                 | /Hz)   |                 |                    |                    |                 | VKA • VH        | A:230 / Single / | 50, YKA:400 / 1  | Three / 50       |                  |                  |                 |
| ooling   | Capacity                          | Rated  | kW              | 3.6                | 5.0                | 6.1             | 7.1             | 9.5              | 9.5              | 12.5             | 12.5             | 13.4             | 13.4            |
|          |                                   | Min - Max  | kW              | 1.6 - 4.5          | 2.3 - 5.6          | 2.7 - 6.7       | 3.3 - 8.1       | 4.9 - 11.4       | 4.9 - 11.4       | 5.5 - 14.0       | 5.5 - 14.0       | 6.2 - 15.0       | 6.2 - 15        |
|          | Total Input                       | Rated  | kW              | 0.829              | 1.250              | 1.521           | 1.829           | 2.317            | 2.317            | 3.846            | 3.846            | 3.941            | 3.941           |
|          | EER                               |  |                 | 4.34               | 4.00               | 4.01            | 3.88            | 4.10             | 4.10             | 3.25             | 3.25             | 3.40             | 3.40            |
|          |                                   | EEL Rank   |                 | -                  | -                  | -               | -               | -                | -                | -                | -                | -                | -               |
|          | Design Load                       |  | kW              | 3.6                | 5.0                | 6.1             | 7.1             | 9.5              | 9.5              | -                | -                | -                | _               |
|          | Annual Electricity                | Consumption*2  | kWh/a           | 197                | 260                | 328             | 371             | 513              | 523              | -                | -                | -                | _               |
|          | SEER*4                            |  |                 | 6.4                | 6.7                | 6.5             | 6.7             | 6.4              | 6.3              | -                | -                | -                | _               |
|          |                                   | Energy Efficiency Class                                    |                 | A++                | A++                | A++             | A++             | Α++              | Δ++              | -                | -                | -                | _               |
| leating  | Capacity                          | Rated  | kW              | 4.1                | 5.5                | 7.0             | 8.0             | 11.2             | 11.2             | 14.0             | 14.0             | 16.0             | 16.0            |
| Average  |                                   | Min - Max  | kW              | 1.6-5.2            | 2.5 - 6.6          | 2.8 - 8.2       | 3.5 - 10.2      | 4.5 - 14.0       | 4.5 - 14.0       | 5.0 - 16.0       | 5.0 - 16.0       | 5.7 - 18.0       | 5.7 - 18.       |
| eason)   | Total Input                       | Rated  | kW              | 1.019              | 1.361              | 1.745           | 2.156           | 3.018            | 3.018            | 3.954            | 3.954            | 4.432            | 4.432           |
|          | СОР                               |  |                 | 4.02               | 4.04               | 4.01            | 3.71            | 3.71             | 3.71             | 3.54             | 3.54             | 3.61             | 3.61            |
|          |                                   | EEL Rank   | 1347            | -                  | -                  | 4.4             | 4.7             | 7.8              | 7.8              | -                | -                | -                | -               |
|          | Design Load                       | Line from the first transfer                               | kW              | 2.4<br>2.4 (-10°C) | 3.8<br>3.8 (-10°C) | 4.4 (-10°C)     | 4.7 (-10°C)     | 7.8 (–10°C)      | 7.8 (–10°C)      | <del>-</del>     | -                | -                | -               |
|          | Declared Capacity                 | at reference design temperature<br>at bivalent temperature | kW              | 2.4 (-10°C)        | 3.8 (-10°C)        | 4.4 (-10°C)     | 4.7 (-10°C)     | 7.8 (–10°C)      | 7.8 (–10°C)      | _                | -                | _                | -               |
|          |                                   | at operation limit temperature                             | kW              | 2.4 (-10°C)        | 3.7 (–11°C)        | 2.8 (–20°C)     | 3.5 (–20°C)     | 5.8 (–20°C)      | 5.8 (–20°C)      | <del>-</del>     | -                |                  |                 |
|          | Back Up Heating C                 |  | kW              | 0                  | 0                  | 0               | 0               | 0                | 0                |                  | _                | <del>-</del>     | _               |
|          | Annual Electricity                |  | kWh/a           | 839                | 1265               | 1499            | 1563            | 2539             | 2539             | _                | _                | _                |                 |
|          | SCOP*4                            | Consumption  | KVVII/a         | 4.0                | 4.2                | 4.1             | 4.2             | 4.3              | 4.3              | _                | _                |                  | _               |
|          |                                   | Energy Efficiency Class                                    |                 | A+                 | A+                 | A+              | A+              | A+               | A+               | _                | _                |                  | _               |
| )peratir | g Current (max)                   |  | А               | 13.3               | 13.4               | 19.4            | 19.4            | 27.2             | 8.7              | 27.3             | 10.3             | 28.9             | 13.9            |
| ndoor    | Input                             | Rated  | kW              | 0.04               | 0.05               | 0.06            | 0.06            | 0.09             | 0.09             | 0.11             | 0.11             | 0.14             | 0.14            |
| Jnit     | Operating Current                 | (max)  | А               | 0.29               | 0.37               | 0.39            | 0.42            | 0.65             | 0.65             | 0.76             | 0.76             | 0.90             | 0.90            |
|          | Dimensions <panel></panel>        | $H \times W \times D$                                      | mm              | 230 - 96           | 60 - 680           | 230 - 12        | 280 - 680       |                  | •                |                  | 600 - 680        |                  |                 |
|          | Weight <panel></panel>            |  | kg              | 25                 | 26                 | 32              | 32              | 37               | 37               | 38               | 38               | 40               | 40              |
|          | Air Volume [Lo-Mi2                |  | m³/min          |                    |                    |                 | 16-17-18-20     |                  | 22-24-26-28      | 23-25-27-29      | 23-25-27-29      | 24-26-29-32      | 24-26-29        |
|          | Sound Level (SPL)                 |  | dB(A)           |                    |                    |                 | 35-37-39-41     |                  |                  |                  |                  | 41-43-45-48      |                 |
|          | Sound Level (PWL)                 |  | dB(A)           | 60                 | 60                 | 60              | 62              | 63               | 63               | 65               | 65               | 68               | 68              |
|          | Dimensions                        | $H \times W \times D$                                      | mm              |                    | 09 - 300           |                 | - 330 (+25)     |                  |                  |                  | 0 - 330 (+40)    |                  |                 |
| Jnit     | Weight                            |  | kg              | 46                 | 46                 | 70              | 70              | 116              | 123              | 116              | 125              | 118              | 131             |
|          | Air Volume                        | Cooling  | m³/min          | 45                 | 45                 | 55              | 55              | 110              | 110              | 120              | 120              | 120              | 120             |
|          |                                   | Heating  | m³/min<br>dB(A) | 45<br>44           | 45<br>44           | 55<br>47        | 55<br>47        | 110<br>49        | 110<br>49        | 120<br>50        | 120<br>50        | 120              | 120<br>50       |
|          | Sound Level (SPL)                 | Cooling<br>Heating   | dB(A)           | 44                 | 44                 | 47              | 47              | 49<br>51         | 49<br>51         | 50               | 52               | 50<br>52         | 50              |
|          | Sound Level (PWL)                 |  | dB(A)           | 65                 | 65                 | 67              | 67              | 69               | 69               | 70               | 70               | 70               | 70              |
|          | Operating Current                 |  | A A             | 13.0               | 13.0               | 19.0            | 19.0            | 26.5             | 8.0              | 26.5             | 9.5              | 28.0             | 13.0            |
|          | Breaker Size                      | (IIIQA/  | A               | 16                 | 16                 | 25              | 25              | 32               | 16               | 32               | 9.5              | 40               | 16              |
| xt.      | Diameter Diameter                 | Liquid / Gas   | mm              | 6.35 / 12.7        | 6.35 / 12.7        | 9.52 / 15.88    | 9.52 / 15.88    | 9.52 / 15.88     | 9.52 / 15.88     |                  | 9.52 / 15.88     | 9.52 / 15.88     | 9.52 / 15.      |
| iping    | Max. Length                       | Out-In   | m               | 50                 | 50                 | 55              | 55              | 100              | 100              | 100              | 100              | 100              | 100             |
|          |                                   | Out-In   | m               | 30                 | 30                 | 30              | 30              | 30               | 30               | 30               | 30               | 30               | 30              |
| iping    | May Height                        |  |                 |                    |                    |                 |                 |                  |                  |                  |                  |                  |                 |
|          | Max. Height<br>ed Operating Range | Cooling*3  | °C              | -15 ~ +46          | -15 ~ +46          | -15 ~ +46       | -15 ~ +46       | -15 ~ +46        | -15 ~ +46        | -15 ~ +46        | -15 ~ +46        | -15 ~ +46        | -15 ~ +4        |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 Optional air protection guide is required where ambient temperature is lower than –5°C.

\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.































































| Failure | ١ |
|---------|---|

| Type           |                            |                                 |            |               |                  |               |               | Inverter H         | eat Pump         |                 |                 |                 |                 |
|----------------|----------------------------|---------------------------------|------------|---------------|------------------|---------------|---------------|--------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| Indoor U       | nit                        |                                 |            | PCA-<br>M35KA | PCA-<br>M50KA    | PCA-<br>M60KA | PCA-<br>M71KA | PCA-M              | 1100KA           | PCA-M           | 1125KA          | PCA-M           | 1140KA          |
| Outdoor        |                            |                                 |            | SUZ-<br>M35VA | SUZ-<br>M50VA    | SUZ-<br>M60VA | SUZ-<br>M71VA | PUZ-<br>M100VKA    | PUZ-<br>M100YKA  | PUZ-<br>M125VKA | PUZ-<br>M125YKA | PUZ-<br>M140VKA | PUZ-<br>M140YKA |
| Refrigera      |                            |                                 |            |               |                  |               |               | R3:                |                  |                 |                 |                 |                 |
|                | Source                     |                                 |            |               |                  |               |               | Outdoor po         |                  |                 |                 |                 |                 |
| Supply         | Outdoor (V/Phase           | /Hz)                            |            |               |                  |               | VA • VKA      | 4:230 / Single / 5 | 50, YKA:400 / TI | rree / 50       |                 |                 |                 |
| Cooling        | Capacity                   | Rated                           | kW         | 3.6           | 5.0              | 6.1           | 7.1           | 9.5                | 9.5              | 12.1            | 12.1            | 13.4            | 13.4            |
|                |                            | Min - Max                       | kW         | 0.8 - 3.9     | 1.5 - 5.6        | 1.6 - 6.3     | 2.2 - 8.1     | 4.0 - 10.6         | 4.0 - 10.6       | 5.7 - 13.0      | 5.7 - 13.0      | 5.7 - 14.1      | 5.7 - 14.1      |
|                | Total Input                | Rated                           | kW         | 0.90          | 1.51             | 1.64          | 1.97          | 2.94               | 2.94             | 4.01            | 4.01            | 5.36            | 5.36            |
|                | EER                        |                                 |            | 4.00          | 3.30             | 3.70          | 3.60          | 3.23               | 3.23             | 3.01            | 3.01            | 2.50            | 2.50            |
|                |                            | EEL Rank                        |            | -             | -                | -             | -             | -                  | -                | -               | -               | -               |                 |
|                | Design Load                |                                 | kW         | 3.6           | 5.0              | 6.1           | 7.1           | 9.5                | 9.5              | 12.1            | 12.1            | 13.4            | 13.4            |
|                | Annual Electricity         | Consumption*2                   | kWh/a      | 198           | 291              | 333           | 381           | 552                | 552              | -               | -               | -               | -               |
|                | SEER*4                     | Consumption                     | ice erry a | 6.3           | 6.0              | 6.4           | 6.5           | 6.0                | 6.0              | _               | _               | _               | _               |
|                |                            | <b>Energy Efficiency Class</b>  |            | A++           | A+               | A++           | A++           | A+                 | A+               | _               | _               | _               | _               |
| Heating        | Capacity                   | Rated                           | kW         | 4.1           | 6.0              | 7.0           | 8.0           | 11.2               | 11.2             | 13.5            | 13.5            | 15.0            | 15.0            |
| (Average       | Joupauty                   | Min - Max                       | kW         | 1.0 - 5.0     | 1.5 - 7.2        | 1.6 - 8.0     | 2.0 - 10.2    | 2.8 - 12.5         | 2.8 - 12.5       | 4.1 - 15.0      | 4.1 - 15.0      | 4.2 - 15.8      | 4.2 - 15.8      |
| Season)        | Total Input                | Rated                           | kW         | 1.02          | 1.61             | 1.75          | 2.21          | 3.28               | 3.28             | 3.95            | 3.95            | 4.28            | 4.28            |
| ,              | COP                        | Hated                           | KVV        | 4.00          | 3.71             | 4.00          | 3.61          | 3.41               | 3.41             | 3.41            | 3.41            | 3.50            | 3.50            |
|                | COI                        | EEL Rank                        |            | 4.00          | 3.71             | 4.00          | 3.01          | - 0.41             | -                | - 0.41          | - 5.41          | - 3.30          | -               |
|                | Design Load                | LLL Halik                       | kW         | 2.6           | 4.3              | 4.6           | 5.8           | 8.0                | 8.0              | 8.5             | 8.5             | 9.4             | 9.4             |
|                |                            | at reference design temperature | kW         | 2.3 (-10°C)   | 3.8 (-10°C)      | 4.1 (–10°C)   | 5.2 (-10°C)   | 6.0 (-10°C)        | 6.0 (-10°C)      | 8.5 (-10°C)     | 8.5 (-10°C)     | 9.4 (-10°C)     | 9.4 (-10°C)     |
|                | Deciared Capacity          | at bivalent temperature         | kW         | 2.3 (-7°C)    | 3.8 (-7°C)       | 4.1 (-7°C)    | 5.2 (-7°C)    | 7.0 (–7°C)         | 7.0 (–7°C)       | 8.5 (-10°C)     | 8.5 (-10°C)     | 9.4 (-10°C)     | 9.4 (-10°C)     |
|                |                            | at operation limit temperature  | kW         | 2.3 (–10°C)   | 3.8 (-10°C)      | 4.1 (–10°C)   | 5.2 (-10°C)   | 4.5 (–15°C)        | 4.5 (–15°C)      | 6.0 (–15°C)     | 6.0 (-15°C)     | 7.0 (–15°C)     | 7.0 (–15°C)     |
|                | Back Up Heating (          |                                 | kW         | 0.3           | 0.5              | 0.5           | 0.6           | 2.0                | 2.0              | -               | - 0.0 (=15 C)   | 7.0 (=13 C)     | 7.0 (=13 C)     |
|                | Annual Electricity         |                                 | kWh/a      | 909           | 1456             | 1555          | 1971          | 2719               | 2719             | _               | _               | _               | _               |
|                | SCOP*4                     | Consumption                     | KVVII/a    | 4.0           | 4.1              | 4.1           | 4.1           | 4.1                | 4.1              | _               | _               |                 |                 |
|                | SCOP                       | Energy Efficiency Class         |            | A+            | A+               | Δ+            | A+            | A+                 | A+               |                 | _               | <del></del>     |                 |
| Operation      | g Current (max)            | Lifergy Efficiency class        | Α          | 8.8           | 13.9             | 15.2          | 15.2          | 20.7               | 12.2             | 27.3            | 12.3            | 30.9            | 12.4            |
| Indoor         | Input                      | Rated                           | kW         | 0.04          | 0.05             | 0.06          | 0.06          | 0.09               | 0.09             | 0.11            | 0.11            | 0.14            | 0.14            |
| Unit           | Operating Current          |                                 | A          | 0.29          | 0.37             | 0.39          | 0.42          | 0.65               | 0.65             | 0.76            | 0.76            | 0.90            | 0.90            |
| Oiiit          | Dimensions <panel></panel> |                                 | mm         |               | 0.37<br>60 - 680 |               | 80 - 680      | 0.03               | 0.03             |                 | 0.76            | 0.90            | 0.30            |
|                | Weight <panel></panel>     | II X W X B                      | ka         | 250 - 90      | 26               | 32            | 32            | 37                 | 37               | 38              | 38              | 40              | 40              |
|                | Air Volume [Lo-Mi          | 2 M/i1 Lil                      | m³/min     |               |                  |               | 16-17-19-20   |                    |                  |                 |                 | 24-26-29-32     |                 |
|                | Sound Level (SPL)          |                                 | dB(A)      |               |                  |               |               |                    |                  |                 |                 | 41-43-45-48     |                 |
|                | Sound Level (PWL           |                                 | dB(A)      | 60            | 60               | 60            | 62            | 63                 | 63               | 65              | 65              | 68              | 68              |
| Outdoor        | Dimensions                 | H×W×D                           | mm         |               | 714 - 800 - 285  |               | 40 - 330      | 03                 | 03               |                 | - 330 (+40)     | 00              | 00              |
| Unit           | Weight                     | II X VV X D                     | kg         | 35            | 41               | 54            | 55            | 76                 | 78               | 84              | 85              | 84              | 85              |
| Oilit          | Air Volume                 | Cooling                         | m³/min     | 34.3          | 45.8             | 50.1          | 50.1          | 79.0               | 79.0             | 86.0            | 86.0            | 86.0            | 86.0            |
|                | All volume                 | Heating                         | m³/min     | 32.7          | 43.7             | 50.1          | 50.1          | 79.0               | 79.0             | 92.0            | 92.0            | 92.0            | 92.0            |
|                | Sound Level (SPL)          | Cooling                         | dB(A)      | 48            | 43.7             | 49            | 49            | 79.0<br>51         | 51               | 54              | 92.0<br>54      | 55              | 55              |
|                | Sound Level (SPL)          | Heating                         | dB(A)      | 48            | 48               | 51            | 51            | 54                 | 54               | 56<br>56        | 56              | 57              | 57              |
|                | Sound Level (PWL)          |                                 | dB(A)      | 59            | 64               | 65            | 66            | 70                 | 70               | 72              | 72              | 73              | 73              |
|                | Operating Current          |                                 | A A        | 8.5           | 13.5             | 14.8          | 14.8          | 20.0               | 11.5             | 26.5            | 11.5            | 30.0            | 11.5            |
|                |                            | (IIIdX)                         | A          | 8.5<br>10     | 13.5             | 14.8          | 14.8          | 32                 | 16               | 26.5<br>32      | 11.5            | 30.0<br>40      | 16              |
| Ext.           | Breaker Size               | Liquid / Gas                    |            | 6.35 / 9.52   | 6.35 / 12.7      | 6.35 / 15.88  | 9.52 / 15.88  | 9.52 / 15.88       | 9.52 / 15.88     | 9.52 / 15.88    | 9.52 / 15.88    | 9.52 / 15.88    | 9.52 / 15.88    |
| Ext.<br>Piping | Diameter                   |                                 | mm         |               |                  |               |               |                    |                  | 9.52 / 15.88    |                 |                 |                 |
| riping         | Max. Length                | Out-In                          | m          | 20            | 30               | 30<br>30      | 30<br>30      | 50                 | 55               | 30              | 65<br>30        | 65<br>30        | 65              |
|                | Max. Height                | Out-In                          | m          | 12            | 30               | 30            | 30            | 30                 | 30               | 30              | 30              | J 30            | 30              |

<sup>|</sup> Max. Height | Out-in |
| Guaranteed Operating Range | Cooling\*\* | Heating | °C -10 - +24 -15 - +24 -15 - +24 -15 - +24 -15 - +24 -15 - +24 -15 - +24 -15 - +21 -15 - +21 -15 - +21 -15 - +21 -15 - +21 [Outdoor] \*\*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 Optional air protection guide is required where ambient temperature is lower than –5°C.

\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.



# PCA-M KA Indoor Unit Combinations Indoor unit combinations shown below are possible.

|        |                          |      |      |      |      |         |       |       |     | Outd | oor U | nit Cap | acity |      |       |        |      |         |      |        |         |
|--------|--------------------------|------|------|------|------|---------|-------|-------|-----|------|-------|---------|-------|------|-------|--------|------|---------|------|--------|---------|
| Indoor | Unit Combination         |      |      |      | Fo   | or Sing | gle   |       |     |      |       |         | For   | Twin |       |        | Fo   | or Trip | le   | For Qu | adruple |
|        |                          | 35   | 50   | 60   | 71   | 100     | 125   | 140   | 200 | 250  | 71    | 100     | 125   | 140  | 200   | 250    | 140  | 200     | 250  | 200    | 250     |
| Power  | Inverter (PUHZ-ZRP)      | 35x1 | 50x1 | 60x1 | 71x1 | 100x1   | 125x1 | 140x1 | -   | -    | 35x2  | 50x2    | 60x2  | 71x2 | 100x2 | 125x2  | 50x3 | 60x3    | 71x3 | 50x4   | 60x4    |
|        | Distribution Pipe        | -    | -    | -    | -    | -       | -     | -     | -   | -    | -     | MSE     | D-50  | R-E  | MSDD- | 50WR-E | MSI  | DT-111  | R-E  | MSDF-1 | 1111R-E |
| Standa | rd Inverter (PUHZ-P&SUZ) | 35x1 | 50x1 | 60x1 | 71x1 | 100x1   | 125x1 | 140x1 | -   | -    | -     | 50x2    | 60x2  | 71x2 | 100x2 | 125x2  | 50x3 | 60x3    | 71x3 | 50x4   | 60x4    |
|        | Distribution Pipe        | -    | -    | -    | -    | -       | -     | -     | -   | -    | -     | MSI     | D-50  | ΓR-E | MSDD- | 50WR-E | MSI  | DT-111  | IR-E | MSDF-1 | 1111R-E |

# PCA-M KA CEDITO



























|                     | NVERTER            |                                 | Rotation<br>Back-up | Optional           | Group<br>Control M-NE | Wi-Fi ))<br>Interface | COMPO              | ZZ<br>ection Cleaning-free, | Wiring<br>Reuse     | Drain<br>Lift Up<br>Optional | P Flare connection  | Self<br>Diagnosis Red | ure<br>call         |
|---------------------|--------------------|---------------------------------|---------------------|--------------------|-----------------------|-----------------------|--------------------|-----------------------------|---------------------|------------------------------|---------------------|-----------------------|---------------------|
| Type                |                    |                                 |                     |                    |                       |                       |                    | Inverter H                  | eat Pump            |                              |                     |                       |                     |
| Indoor Ur           | nit                |                                 |                     | PCA-<br>M35KA      | PCA-<br>M50KA         | PCA-<br>M60KA         | PCA-<br>M71KA      | PCA-N                       | 1100KA              | PCA-W                        | 1125KA              | PCA-M                 | 1140KA              |
| Outdoor             | Unit               |                                 |                     | PUHZ-<br>ZRP35VKA2 | PUHZ-<br>ZRP50VKA2    | PUHZ-<br>ZRP60VHA2    | PUHZ-<br>ZRP71VHA2 | PUHZ-<br>ZRP100VKA3         | PUHZ-<br>ZRP100YKA3 | PUHZ-<br>ZRP125VKA3          | PUHZ-<br>ZRP125YKA3 | PUHZ-<br>ZRP140VKA3   | PUHZ-<br>ZRP140YKA3 |
| Refrigera           | nt                 |                                 |                     |                    | •                     | •                     | •                  | R41                         | 0A*1                | •                            | •                   | •                     | •                   |
|                     | Source             |                                 |                     |                    |                       |                       |                    | Outdoor po                  |                     |                              |                     |                       |                     |
| Supply              | Outdoor (V/Phase   | /Hz)                            |                     |                    |                       |                       | VKA • VH           | A:230 / Single /            |                     |                              |                     |                       |                     |
| Cooling             | Capacity           | Rated                           | kW                  | 3.6                | 5.0                   | 6.1                   | 7.1                | 9.5                         | 9.5                 | 12.5                         | 12.5                | 13.4                  | 13.4                |
| •                   |                    | Min - Max                       | kW                  | 1.6 - 4.5          | 2.3 - 5.6             | 2.7 - 6.7             | 3.3 - 8.1          | 4.9 - 11.4                  | 4.9 - 11.4          | 5.5 - 14.0                   | 5.5 - 14.0          | 6.2 - 15.0            | 6.2 - 15.0          |
|                     | Total Input        | Rated                           | kW                  | 0.86               | 1.34                  | 1.66                  | 1.82               | 2.42                        | 2.42                | 3.98                         | 3.98                | 3.95                  | 3.95                |
|                     | EER                |                                 |                     | 4.19               | 3.73                  | 3.67                  | 3.90               | 3.93                        | 3.93                | 3.14                         | 3.14                | 3.39                  | 3.39                |
|                     |                    | EEL Rank                        |                     | -                  | -                     | -                     | -                  | -                           | -                   | -                            | -                   | -                     | -                   |
|                     | Design Load        |                                 | kW                  | 3.6                | 5.0                   | 6.1                   | 7.1                | 9.5                         | 9.5                 | -                            | _                   | -                     | -                   |
|                     | Annual Electricity | Consumption*2                   | kWh/a               | 202                | 283                   | 340                   | 367                | 542                         | 553                 | -                            | -                   | -                     | -                   |
|                     | SEER*4             |                                 |                     | 6.2                | 6.1                   | 6.2                   | 6.7                | 6.1                         | 6.0                 | -                            | -                   | -                     | -                   |
|                     | _                  | Energy Efficiency Class         |                     | A++                | A++                   | A++                   | A++                | A++                         | A+                  | -                            | -                   |                       |                     |
|                     | Capacity           | Rated                           | kW                  | 4.1                | 5.5                   | 7.0                   | 8.0                | 11.2                        | 11.2                | 14.0                         | 14.0                | 16.0                  | 16.0                |
| (Average<br>Season) |                    | Min - Max                       | kW                  | 1.6 - 5.2          | 2.5 - 6.6             | 2.8 - 8.2             | 3.5 - 10.2         | 4.5 - 14.0                  | 4.5 - 14.0          | 5.0 - 16.0                   | 5.0 - 16.0          | 5.7 - 18.0            | 5.7 - 18.0          |
| Season)             | Total Input<br>COP | Rated                           | kW                  | 1.02<br>4.02       | 1.45<br>3.79          | 1.93<br>3.63          | 2.20<br>3.64       | 3.04<br>3.68                | 3.04<br>3.68        | 3.80<br>3.68                 | 3.80<br>3.68        | 4.57<br>3.50          | 4.57                |
|                     |                    | EEL Rank                        |                     | 4.02               | 3.79                  | 3.63                  | 3.04               | 3.08                        | 3.08                |                              | 3.68                | 3.50                  | 3.50                |
|                     | Design Load        | EEL RANK                        | l kW                | 2.4                | 3.8                   | 4.4                   | 4.7                | 7.8                         | 7.8                 |                              |                     | _                     | _                   |
|                     |                    | at reference design temperature |                     | 2.4 (-10°C)        | 3.8 (–10°C)           | 4.4 (-10°C)           | 4.7 (–10°C)        | 7.8 (–10°C)                 | 7.8 (–10°C)         |                              |                     |                       |                     |
|                     |                    | at bivalent temperature         | kW                  | 2.4 (-10°C)        | 3.8 (-10°C)           | 4.4 (-10°C)           | 4.7 (-10°C)        | 7.8 (-10°C)                 | 7.8 (-10°C)         |                              |                     |                       |                     |
|                     |                    | at operation limit temperature  | kW                  | 2.2 (-11°C)        | 3.7 (-11°C)           | 2.8 (-20°C)           | 3.5 (-20°C)        | 5.8 (-20°C)                 | 5.8 (-20°C)         | _                            | _                   | _                     |                     |
|                     | Back Up Heating (  |                                 | kW                  | 0                  | 0.7 ( 11 0)           | 0                     | 0.0 ( 20 0)        | 0.0 ( 20 0)                 | 0.0 ( 20 0)         | _                            | _                   | _                     |                     |
|                     | Annual Electricity | Consumption*2                   | kWh/a               | 815                | 1257                  | 1458                  | 1519               | 2837                        | 2837                | -                            | _                   | _                     | _                   |
|                     | SCOP*4             |                                 | ,, 0                | 4.1                | 4.2                   | 4.3                   | 4.3                | 3.9                         | 3.9                 | -                            | -                   | -                     | -                   |
|                     |                    | <b>Energy Efficiency Class</b>  | ;                   | A+                 | A+                    | A+                    | A <sup>+</sup>     | A                           | A                   | -                            | -                   | -                     | _                   |
|                     |                    |                                 |                     |                    |                       |                       |                    |                             |                     |                              |                     |                       |                     |

Sound Level (PWL) Cooling
Operating Current (max)
Breaker Size

Ext. Diameter Liquid /
Piping Max. Leight Out-In
Guaranteed Operating Range
(Outdond) \*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO2, over a period contains a refrigerant fluid with a GWP equal to 1975. This means that it is got this refrigerant muci would be leaked to the atmosphere, the impact of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 Optional air protection guide is required where ambient temperature is lower than –5°C.

\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

230 - 1280 - 680

330 (+30)

943 - 950



Weight Air Volume

Sound Level (SPL)

Liquid / Gas

Outdoo







630 - 809 - 300































kW A mm

kg

kg n³/mi n³/min dB(A)

dB(A) dB(A) A A mm





















330 (+









































|           |                                   | Opionia                         | Ориспа  |                        | Ориона Ориона          | Ориалы                 |                        |                        | Ориспа                 | Ориспа                 |                        |                        |                        |
|-----------|-----------------------------------|---------------------------------|---------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Type      |                                   |                                 |         |                        |                        |                        |                        | Inverter F             | leat Pump              |                        |                        |                        |                        |
| Indoor U  | nit                               |                                 |         | PCA-M35KA              | PCA-M50KA              | PCA-M60KA              | PCA-M71KA              | PCA-M                  | 100KA                  | PCA-N                  | 1125KA                 | PCA-N                  | 1140KA                 |
| Outdoor   |                                   |                                 |         |                        |                        |                        |                        |                        |                        |                        | PUHZ-P125YKA           |                        |                        |
| Refrigera |                                   |                                 |         | 302 KA03VA0            | 302 KA30VA0            | 302 10400 VA0          | 302 IOA7 I VAO         | R41                    |                        | 1 01121 1201104        | 1 0112 1 1201104       | I ONE I HOVION         | 11011211401104         |
| Power     | Source                            |                                 |         |                        |                        |                        |                        | Outdoor po             |                        |                        |                        |                        |                        |
|           | Outdoor (V/Phase                  | /H-1                            |         |                        |                        |                        | \/Δ • \/ <i>K</i> /    |                        | 50, YKA:400 / Ti       | ree / 50               |                        |                        |                        |
|           |                                   |                                 | kW      | 3.6                    | 5.0                    | 5.7                    | 7.1                    | 9.4                    | 9.4                    | 12.1                   | 12.1                   | 13.6                   | 13.6                   |
| Cooling   | Capacity                          | Rated<br>Min - Max              | kW      | 1.4 - 3.9              | 2.3 - 5.6              | 2.3 - 6.3              | 7. I<br>2.8 - 8.1      | 9.4<br>3.7 - 10.6      | 9.4<br>3.7 - 10.6      | 5.6 - 13.0             | 5.6 - 13.0             | 5.8 - 14.1             | 5.8 - 14.1             |
|           | T                                 |                                 | kW      | 1.4 - 3.9              | 1.550                  | 1.720                  | 2.8 - 8.1              | 3.7 - 10.6             |                        |                        |                        |                        |                        |
|           | Total Input<br>EER                | Rated                           | KVV     | 3.43                   | 3.23                   | 3.31                   | 3.45                   | 3.05                   | 3.05                   | 4.24<br>2.85           | 4.24<br>2.85           | 5.62<br>2.41           | 5.62<br>2.41           |
|           | EEK                               | EEL Rank                        |         | 3.43                   | 3.23                   | 3.31                   | 3.45                   | 3.08                   | 3.08                   | 2.85                   | 2.85                   | 2.41                   | 2.41                   |
|           | Design Load                       | EEL RANK                        | kW      | 3.6                    | 5.0                    | 5.7                    | 7.1                    | 9.4                    | 9.4                    | _                      | _                      | _                      |                        |
|           | Annual Electricity                | Consumption*2                   | kWh/a   | 209                    | 296                    | 325                    | 409                    | 586                    | 586                    |                        | _                      | _                      |                        |
|           | SEER*4                            | Consumption                     | KVVII/a | 6.0                    | 5.8                    | 6.1                    | 6.0                    | 5.6                    | 5.6                    | _                      | _                      | _                      |                        |
|           | SEER.                             | Energy Efficiency Class         |         | A+                     | A+                     | Δ++                    | A+                     | 3.6<br>A+              | 5.6<br>A+              | _                      | _                      | _                      |                        |
| Heating   | Capacity                          | Rated                           | kW      | 4.1                    | 5.5                    | 6.9                    | 7.9                    | 11.2                   | 11.2                   | 13.5                   | 13.5                   | 15.0                   | 15.0                   |
| (Average  |                                   | Min - Max                       | kW      | 1.7 - 5.0              | 1.7 - 6.6              | 2.5 - 8.0              | 2.6 - 10.2             | 2.8 - 12.5             | 2.8 - 12.5             | 4.8 - 15.0             | 4.8 - 15.0             | 4.9 - 15.8             | 4.9 - 15.8             |
| Season)   | Total Input                       | Rated                           | kW      | 1.050                  | 1.520                  | 1.910                  | 2.180                  | 3.37                   | 3.37                   | 4.06                   | 4.06                   | 4.47                   | 4.47                   |
| 0000011,  | COP                               | Inated                          | I KVV   | 3.90                   | 3.62                   | 3.61                   | 3.62                   | 3.32                   | 3.32                   | 3.32                   | 3.32                   | 3.35                   | 3.35                   |
|           |                                   | EEL Rank                        |         | -                      | -                      | - 0.01                 | -                      | - 0.02                 | - 0.02                 | -                      | - 3.32                 | -                      | -                      |
|           | Design Load                       | LLL Halik                       | kW      | 2.6                    | 4.0                    | 4.8                    | 5.8                    | 8.0                    | 8.0                    | _                      | _                      | _                      | _                      |
|           |                                   | at reference design temperature | kW      | 2.3 (-10°C)            | 3.6 (-10°C)            | 4.0 (-10°C)            | 5.2 (-10°C)            | 6.0 (-10°C)            | 6.0 (-10°C)            | _                      | _                      | _                      | _                      |
|           | Deciared Supucity                 | at bivalent temperature         | kW      | 2.3 (-7°C)             | 3.6 (-7°C)             | 4.3 (-7°C)             | 5.2 (-7°C)             | 7.0 (–7°C)             | 7.0 (-7°C)             | _                      | _                      | _                      | _                      |
|           |                                   | at operation limit temperature  | kW      | 2.3 (-10°C)            | 3.6 (-10°C)            | 4.0 (–10°C)            | 5.2 (-10°C)            | 4.5 (-15°C)            | 4.5 (–15°C)            | _                      | _                      | _                      | _                      |
|           | Back Up Heating C                 |                                 | kW      | 0.3                    | 0.4                    | 0.8                    | 0.6                    | 2.0                    | 2.0                    | _                      | _                      | _                      | _                      |
|           | Annual Electricity                |                                 | kWh/a   | 887                    | 1398                   | 1678                   | 2028                   | 2726                   | 2726                   | -                      | _                      | _                      | _                      |
|           | SCOP*4                            |                                 |         | 4.1                    | 4.0                    | 4.0                    | 4.3                    | 4.1                    | 4.1                    | -                      | -                      | -                      | -                      |
|           |                                   | <b>Energy Efficiency Class</b>  |         | A <sup>+</sup>         | Α+                     | A <sup>+</sup>         | A+                     | A+                     | A+                     | -                      | -                      | -                      | -                      |
| Operatir  | ng Current (max)                  |                                 | A       | 8.5                    | 12.4                   | 14.4                   | 16.5                   | 20.7                   | 12.2                   | 27.3                   | 12.3                   | 30.9                   | 12.4                   |
| Indoor    | Input                             | Rated                           | kW      | 0.04                   | 0.05                   | 0.06                   | 0.06                   | 0.09                   | 0.09                   | 0.11                   | 0.11                   | 0.14                   | 0.14                   |
| Unit      | Operating Current                 |                                 | А       | 0.29                   | 0.37                   | 0.39                   | 0.42                   | 0.65                   | 0.65                   | 0.76                   | 0.76                   | 0.90                   | 0.90                   |
|           | Dimensions <panel></panel>        | $H \times W \times D$           | mm      | 230-96                 |                        | 230-12                 |                        |                        |                        |                        | 00-680                 |                        |                        |
|           | Weight <panel></panel>            |                                 | kg      | 25                     | 26                     | 32                     | 32                     | 37                     | 37                     | 38                     | 38                     | 40                     | 40                     |
|           | Air Volume [Lo-Mi2                |                                 | m³/min  | 10-11-12-14            |                        |                        |                        |                        |                        |                        | 23-25-27-29            |                        |                        |
|           | Sound Level (SPL)                 |                                 | dB(A)   | 31-33-36-39            |                        |                        |                        |                        |                        |                        | 39-41-43-45            |                        |                        |
|           | Sound Level (PWL                  |                                 | dB(A)   | 60                     | 60                     | 60                     | 62                     | 63                     | 63                     | 65                     | 65                     | 68                     | 68                     |
|           | Dimensions                        | H × W × D                       | mm      | 550 - 800 - 285        |                        | 880 - 840 - 330        |                        |                        |                        | 981 - 10               |                        |                        |                        |
| Unit      | Weight                            |                                 | kg      | 35                     | 54                     | 50                     | 53                     | 76                     | 78                     | 84                     | 85                     | 84                     | 85                     |
|           | Air Volume                        | Cooling                         | m³/min  | 36.3                   | 44.6                   | 40.9                   | 50.1                   | 79                     | 79                     | 86                     | 86                     | 86                     | 86                     |
|           |                                   | Heating                         | m³/min  | 34.8                   | 44.6                   | 49.2                   | 48.2                   | 79                     | 79                     | 92                     | 92                     | 92                     | 92                     |
|           | Sound Level (SPL)                 | Cooling                         | dB(A)   | 49                     | 52                     | 55                     | 55                     | 51                     | 51                     | 54                     | 54                     | 56                     | 56                     |
|           |                                   | Heating                         | dB(A)   | 50                     | 52<br>65               | 55                     | 55                     | 54                     | 54<br>70               | 56<br>72               | 56                     | 57                     | 57<br>75               |
|           | Sound Level (PWL)                 |                                 | dB(A)   | 62                     |                        | 65                     | 69                     | 70                     |                        |                        | 72                     | 75                     |                        |
|           | Operating Current                 | (max)                           | A       | 8.2                    | 12.0                   | 14.0                   | 16.1<br>20             | 20.0                   | 11.5                   | 26.5                   | 11.5                   | 30.0                   | 11.5<br>16             |
| Ext.      | Breaker Size<br>Diameter          | II::: / C                       | Α       | 10<br>6.35 / 9.52      | 20<br>6.35 / 12.7      | 20<br>6.35 / 15.88     | 9.52 / 15.88           | 32<br>9.52 / 15.88     | 16<br>9.52 / 15.88     | 32<br>9.52 / 15.88     | 16<br>9.52 / 15.88     | 40<br>9.52 / 15.88     | 9.52 / 15.88           |
|           |                                   | Liquid / Gas                    | mm<br>m |                        | 30                     |                        |                        |                        |                        |                        |                        |                        |                        |
| riping    | Max. Length                       | Out-In                          | m       | 20<br>12               | 30                     | 30<br>30               | 30<br>30               | 50<br>30               | 50<br>30               | 50<br>30               | 50<br>30               | 50<br>30               | 50<br>30               |
| Guerorte  | Max. Height<br>ed Operating Range | Out-In<br>Coolina*3             | °C      | -10 ~ +46              | -15 ~ +46              | -15 ~ +46              | -15 ~ +46              | -15 ~ +46              | -15 ~ +46              | -15 ~ +46              | -15 ~ +46              | -15 ~ +46              | -15 ~ +46              |
| Outdoor   |                                   | Heating                         | °C      | -10 ~ +46<br>-10 ~ +24 | -15 ~ +46<br>-15 ~ +21 |
| TOULUOUI  |                                   | Heating                         |         | -10 ~ +24              | -10 ~ +24              | -10 ~ +24              | -10 ~ +24              | -15 ~ +21              | -15 ~ +21              |                        | -15 ~ +Z1              |                        | -15 ~ +21              |

<sup>|</sup> Hediting | To | Heating | To | Hea



# Tough on Oily Smoke

A durable stainless steel casing that is resistant to oil and grease is provided to protect the surface of the body. Grimy dirt and stains are removed easily, enabling the unit to be kept clean at all times.

# High-performance Oil Mist Filter

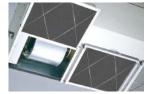
A high-performance heavy-duty oil mist filter is included as standard equipment. The filtering system is more efficient than conventional filters, thereby effectively reducing the oily smoke entering the air conditioner. The filter is disposable, thereby enabling trouble-free cleaning and maintenance.

# Oil Mist Filter Cleaning

When used in kitchens, the oil mist filter should be replaced once every two months. The system comes with 12 filters elements. After these have been used, optional elements (PAC-SG38KF-E) can be purchased.







Pull the handle to easily slide the filter out

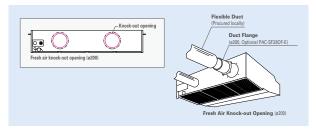
# Easy Maintenance – Even for Cleaning the Fan

A separate fan casing that can be disassembled in sections is adopted to ensure easy fan cleaning. Drain pan cleaning onsite is also no problem owing to the use of a pipe connector that is easily removed.



# Fresh Outside-air Intake (Option)

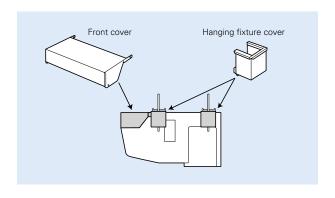
There is a knock-out opening on the rear panel of the unit that can be used to bring fresh air into the unit. This helps to improve ventilation and make the kitchen comfortable.

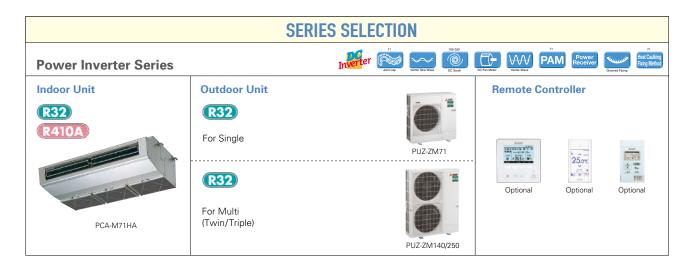


Notes: 1) A fresh-air duct flange is required (sold separately) 2) Intake air is not 100% fresh (outside) air.

# Cosmetic Front and Hanging Fixture Covers (Option)

Cosmetic covers are available to prevent the collection of dust and grime on the main body and hanging fixture sections.





# PCA-M HA Indoor Unit Combinations Indoor unit combinations shown below are possible.

|        |                   |    |    |    |      |         |     |     |     | Outd | oor Ui | nit Cap | acity |                  |     |     |     |         |                  |        |         |
|--------|-------------------|----|----|----|------|---------|-----|-----|-----|------|--------|---------|-------|------------------|-----|-----|-----|---------|------------------|--------|---------|
| Indoor | Unit Combination  |    |    |    | Fo   | or Sing | jle |     |     |      |        |         | For   | Twin             |     |     | F   | or Trip | le               | For Qu | adruple |
|        |                   | 35 | 50 | 60 | 71   | 100     | 125 | 140 | 200 | 250  | 71     | 100     | 125   | 140              | 200 | 250 | 140 | 200     | 250              | 200    | 250     |
| Power  | Inverter (PUZ-ZM) | -  | -  | -  | 71x1 | -       | -   | -   | -   | -    | _      | -       | -     | 71x2             | -   | -   | -   | -       | 71x3             | -      |         |
|        | Distribution Pipe | -  | -  | -  | -    | -       | -   | -   | -   | -    | -      | -       | -     | MSDD-<br>50TR2-E | -   | -   | -   | -       | MSDT-<br>111R3-E | -      | -       |



# PCA-M HA Indoor Unit Combinations Indoor unit combinations shown below are possible.

|                           |    |    |    |      |         |     |     |     | Outd | oor Ui | nit Cap | acity |             |     |     |     |         |             |        |         |
|---------------------------|----|----|----|------|---------|-----|-----|-----|------|--------|---------|-------|-------------|-----|-----|-----|---------|-------------|--------|---------|
| Indoor Unit Combination   |    |    |    | Fc   | or Sing | gle |     |     |      |        |         | For   | Twin        |     |     | F   | or Trip | le          | For Qu | adruple |
|                           | 35 | 50 | 60 | 71   | 100     | 125 | 140 | 200 | 250  | 71     | 100     | 125   | 140         | 200 | 250 | 140 | 200     | 250         | 200    | 250     |
| Power Inverter (PUHZ-ZRP) | -  | -  | -  | 71x1 | -       | -   | -   | -   | -    | -      | -       | -     | 71x2        | -   | -   | -   | -       | 71x3        | -      | _       |
| Distribution Pipe         | -  | -  | -  | -    | -       | _   | -   | -   | -    | -      | -       | -     | MSDD-50TR-E | -   | -   | -   | -       | MSDT-111R-E | -      | _       |

# PCA-RP HA SERIES







































| Туре             |                            |   |         | Inverter              | Heat Pump             |
|------------------|----------------------------|---|---------|-----------------------|-----------------------|
| ndoor U          | nit                        |   |         | PCA:                  | -M71HA                |
| utdoor           | Unit                       |   |         | PUHZ-ZRP71VHA2        | PUZ-ZM71VHA           |
| efrigera         |                            |   |         | R410A DX*1            | R32 DX*1              |
| ower             | Source                     |   |         |                       | power supply          |
|                  | Outdoor (V/Phase           | /H <sub>2</sub> )                       |         | 230 /                 | Single / 50           |
|                  |                            | Rated                                   | kW      | 7.1                   | 7.1                   |
| ooling           | Сарасіту                   |   | kW      | 3.3 - 8.1             | 3.3 - 8.1             |
|                  | Total Input                | Min - Max<br>Rated                      | kW      | 2.17                  | 2.02                  |
|                  | EER                        | nateu                                   | KVV     | Z.17                  | 2.02                  |
|                  |                            | EEL Rank                                |         |                       |                       |
|                  | Design Load                | LLL Halik                               | kW      | 7.1                   | 7.1                   |
|                  | Annual Electricity         | Consumption*2                           | kWh/a   | 447                   | 444                   |
|                  | SEER*4                     | Consumption                             | KVVII/a | 5.6                   | 5.6                   |
|                  | JLLII                      | Energy Efficiency Class                 |         |                       | 3.0<br>A+             |
| eating           | Capacity                   | Rated                                   | kW      | 7.6                   | 7.6                   |
| eating<br>verage | oupacity                   | Min - Max                               | kW      | 3.5 - 10.2            | 3.5 - 10.2            |
| ason)            | Total Input                | Rated                                   | kW      | 2.35                  | 2.17                  |
| ,                | COP                        | I nated                                 |         |                       | Z.17<br>—             |
|                  |                            | EEL Rank                                |         |                       | _                     |
|                  | Design Load                |   | kW      | 4.7                   | 4.7                   |
|                  |                            | at reference design temperature         | kW      | 4.7                   | 4.7                   |
|                  | Decidica Capacity          | at bivalent temperature                 | kW      | 4.7                   | 4.7                   |
|                  |                            | at operation limit temperature          | kW      | 3.5                   | 3.7                   |
|                  | Back Up Heating (          | anacity                                 | kW      | 0.0                   | 0.0                   |
|                  | Annual Electricity         |   | kWh/a   | 1751                  | 1673                  |
|                  | SCOP*4                     | oonoumption                             |         | 3.8                   | 3.9                   |
|                  |                            | <b>Energy Efficiency Class</b>          |         | A                     | A                     |
| oeratir          | ng Current (max)           | , | A       |                       | 19.4                  |
| door             | Input                      | Rated                                   | kW      |                       | 0.10                  |
| nit              | Operating Current          | (max)                                   | A       |                       | 0.43                  |
|                  | Dimensions <panel></panel> |   | mm      | 280 - 1               | 1136 - 650            |
|                  | Weight <panel></panel>     |   | kg      |                       | 42                    |
|                  | Air Volume [Lo-Hi]         |   | m³/min  |                       | 6 - 18                |
|                  | Sound Level (SPL)          |   | dB(A)   | 3                     | 7 - 39                |
|                  | Sound Level (PWL           |   | dB(A)   |                       | 57                    |
| utdoor           | Dimensions                 | H×W×D                                   | mm      | 943 - 950 - 330 (+30) | 943 - 950 - 330 (+25) |
| nit              | Weight                     | •                                       | kg      | 70                    | 70                    |
|                  | Air Volume                 | Cooling                                 | m³/min  | 55.0                  | 55.0                  |
|                  |                            | Heating                                 | m³/min  | 55.0                  | 55.0                  |
|                  | Sound Level (SPL)          |   | dB(A)   | 47                    | 47                    |
|                  |                            | Heating                                 | dB(A)   | 48                    | 49                    |
|                  | Sound Level (PWL)          |   | dB(A)   | 67                    | 67                    |
|                  | Operating Current          | (max)                                   | A       | 19.0                  | 19.0                  |
|                  | Breaker Size               |   | A       | 25                    | 25                    |
| ct.              | Diameter                   | Liquid / Gas                            | mm      | 9.52 / 15.88          | 9.52 / 15.88          |
| ping             | Max. Length                | Out-In                                  | m       | 50                    | 55                    |
|                  | Max. Height                | Out-In                                  | m       | 30                    | 30                    |
|                  | ed Operating Range         |   | °C      | -15 ~ +46             | −15 ~ +46             |
| Dutdoor          | ]                          | Heating                                 | °C      | −20 ~ +21             | -20 ~ +21             |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself and always ask a professional.

The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 Optional air protection guide is required where ambient temperature is lower than -5°C.

\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.







































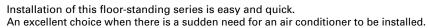




|                     |                            | Optional                        |        |                       |
|---------------------|----------------------------|---------------------------------|--------|-----------------------|
| Type                |                            |                                 |        | Inverter Heat Pump    |
| Indoor Ur           | nit                        |                                 |        | PCA-M71HA             |
| Outdoor             | Unit                       |                                 |        | PUHZ-ZRP71VHA2        |
| Refrigera           |                            |                                 |        | R410A*1               |
|                     | Source                     |                                 |        | Outdoor power supply  |
| Supply              | Outdoor (V/Phase           | /Hz)                            |        | 230 / Single / 50     |
| Cooling             | Capacity                   | Rated                           | kW     | 7.1                   |
| ccciiiig            |                            | Min - Max                       | kW     | 3.3 - 8.1             |
|                     | Total Input                | Rated                           | kW     | 2.17                  |
|                     | EER                        |                                 |        | -                     |
|                     |                            | EEL Rank                        |        | -                     |
|                     | Design Load                |                                 | kW     | 7.1                   |
|                     | Annual Electricity         | Consumption*2                   | kWh/a  | 447                   |
|                     | SEER*4                     | •                               |        | 5.6                   |
|                     |                            | <b>Energy Efficiency Class</b>  |        | A+                    |
| Heating             | Capacity                   | Rated                           | kW     | 7.6                   |
| (Average<br>Season) |                            | Min - Max                       | kW     | 3.5 - 10.2            |
| Season)             |                            | Rated                           | kW     | 2.35                  |
|                     | COP                        |                                 |        | =                     |
|                     |                            | EEL Rank                        |        | -                     |
|                     | Design Load                |                                 | kW     | 4.7                   |
|                     | Declared Capacity          | at reference design temperature | kW     | 4.7 (–10°C)           |
|                     |                            | at bivalent temperature         | kW     | 4.7 (–10°C)           |
|                     |                            | at operation limit temperature  | kW     | 3.5 (–20°C)           |
|                     | Back Up Heating C          | Capacity                        | kW     | 0                     |
|                     | Annual Electricity         | Consumption*2                   | kWh/a  | 1751                  |
|                     | SCOP*4                     | Energy Efficiency Class         |        | 3.8                   |
| 0                   |                            | Energy Eπiciency Class          | _ A    | A 19.4                |
|                     | ng Current (max)           | Rated                           | kW     | 19.4<br>0.09          |
|                     | Input<br>Operating Current |                                 | A      | 0.09                  |
|                     | Dimensions <panel></panel> |                                 | mm     | 280 - 1136 - 650      |
|                     | Weight <panel></panel>     | IH X W X D                      | kg     | 200 - 1130 - 050      |
|                     | Air Volume [Lo-Hi]         |                                 | m³/min | 17-19                 |
|                     | Sound Level (SPL)          | II o-Hil                        | dB(A)  | 34-38                 |
|                     | Sound Level (PWL           | 1                               | dB(A)  | 56                    |
| Outdoor             | Dimensions                 | H × W × D                       | mm     | 943 - 950 - 330 (+30) |
|                     | Weight                     |                                 | kg     | 70                    |
|                     | Air Volume                 | Cooling                         | m³/min | 55.0                  |
|                     |                            | Heating                         | m³/min | 55.0                  |
|                     | Sound Level (SPL)          | Cooling                         | dB(A)  | 47                    |
|                     | ' ' ' ' '                  | Heating                         | dB(A)  | 48                    |
|                     | Sound Level (PWL)          | Cooling                         | dB(A)  | 67                    |
|                     | Operating Current          | (max)                           | Α      | 19.0                  |
|                     | Breaker Size               |                                 | А      | 25                    |
| Ext.                | Diameter                   | Liquid / Gas                    | mm     | 9.52 / 15.88          |
|                     | Max. Length                | Out-In                          | m      | 50                    |
|                     | Max. Height                | Out-In                          | m      | 30                    |
| Guarante            | ed Operating Range         | Cooling*3                       | °C     | -15 ~ +46             |
| [Outdoor            |                            |                                 | 0.0    |                       |

Cooling\*3 °C | Cooling\*3 °C | Cooling\*3 °C | Cooling\*3 °C | Cooling\*3 °C | Cooling\*3 °C | Cooling\*4 °C | Cooling\*4 °C | Cooling\*4 °C | Cooling\*5 °C | Cooling\*6 °C | Coolin



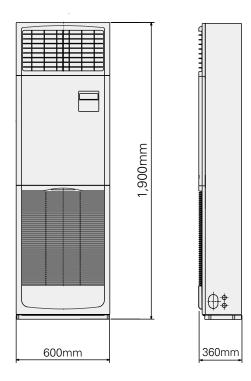




# Quick and Easy Installation, Space-saving and Design That Compliments Any Interior

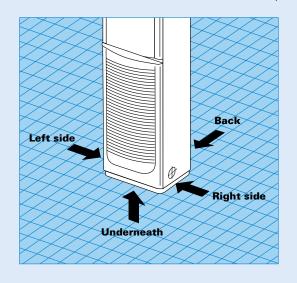
The floor-standing indoor unit is mounted on the floor, enabling quick installation. Its compact body requires only minimal space.

### PSA-RP71KA



# 4-way pipe work connections enable greater freedom in installation

Remarkable freedom in choosing installation sites is allowed by providing piping connection to the indoor unit in four places: left side, back, from underneath and on the right side of the unit. Even installation in the corner of a room is easy.



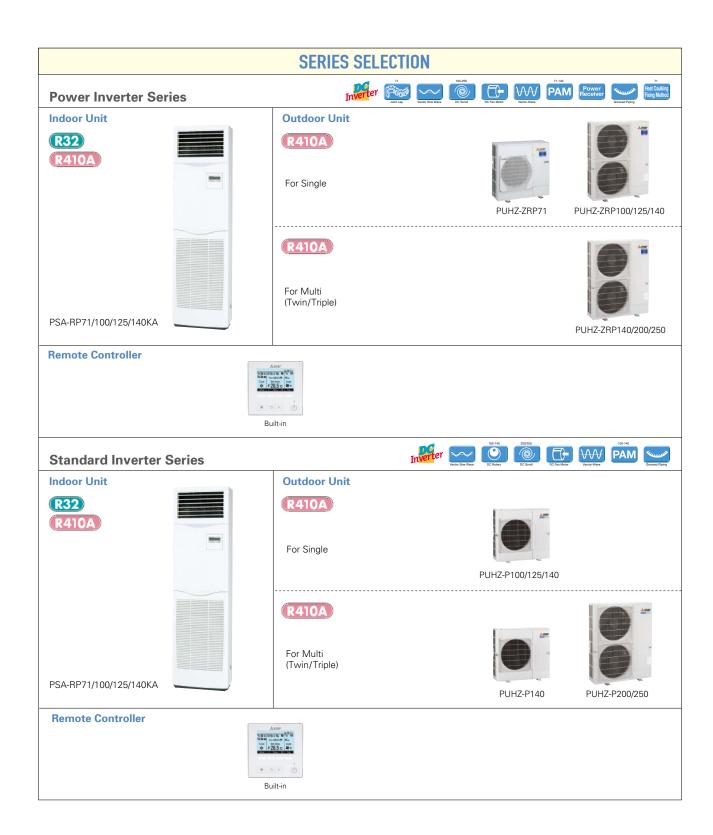
# **Built-in Remote Controller**

Equipped with PAR-40MAA, the latest wired remote controller. Offering excellent readability and a diverse range of functions, the remote controller increases user-friendliness and boosts user satisfaction.

# Main Functions

- Multi-language Display
- Limited Temperature Range Setting
- Auto-off Timer
- Operation Lock
- Weekly Timer





# PSZ-RP KA Indoor Unit Combinations Indoor unit combinations shown below are possible.

| 1021   | ii io (iiidooi oiiit ( | 30111 |    | 11101 | 10   |         | G C   |       |     |      | 20.    | o       | pooc   |             |       |        |     |         |             |        |         |
|--------|------------------------|-------|----|-------|------|---------|-------|-------|-----|------|--------|---------|--------|-------------|-------|--------|-----|---------|-------------|--------|---------|
|        |                        |       |    |       |      |         |       |       |     | Outd | oor Uı | nit Cap | pacity |             |       |        |     |         |             |        |         |
| Indoor | Unit Combination       |       |    |       | Fo   | or Sing | gle   |       |     |      |        |         | For    | Twin        |       |        | F   | or Trip | le          | For Qu | adruple |
|        |                        | 35    | 50 | 60    | 71   | 100     | 125   | 140   | 200 | 250  | 71     | 100     | 125    | 140         | 200   | 250    | 140 | 200     | 250         | 200    | 250     |
| Power  | Inverter (PUHZ-ZRP)    | -     | -  | -     | 71x1 | 100x1   | 125x1 | 140x1 | -   | _    | -      | -       | _      | 71x2        | 100x2 | 125x2  | 1   | -       | 71x3        | -      | -       |
|        | Distribution Pipe      | -     | _  | _     | -    | -       | _     | -     | _   | _    | -      | -       | _      | MSDD-50TR-E | MSDD- | 50WR-E | _   | -       | MSDT-111R-E | -      | -       |
| Standa | rd Inverter (PUHZ-P)   | -     | -  | _     | -    | 100x1   | 125x1 | 140x1 | -   | -    | -      | -       | _      | 71x2        | 100x2 | 125x2  | ı   | -       | 71x3        | -      | -       |
|        | Distribution Pipe      | -     | -  | -     | -    | -       | -     | -     | -   | _    | -      | -       | -      | MSDD-50TR-E | MSDD- | 50WR-E | -   | -       | MSDT-111R-E | -      | -       |































| Туре       |                                  |                                 |          |                        |                        |                              | Inverter Heat Pump           |                 |                              |                 |
|------------|----------------------------------|---------------------------------|----------|------------------------|------------------------|------------------------------|------------------------------|-----------------|------------------------------|-----------------|
| Indoor U   | Init                             | **                              |          | PSA-RP71KA             | PSA-RF                 |                              | PSA-RP                       | 125KA           | PSA-RF                       | 2140KA          |
| Outdoor    |                                  |                                 |          |                        |                        |                              | PUHZ-ZRP125VKA3              |                 |                              |                 |
|            |                                  |                                 |          | PUHZ-ZRP71VHA2         | PUHZ-ZRP100VKA3        | PUHZ-ZRP100YKA3              |                              | PUHZ-ZRP125YKA3 | PUHZ-ZRP140VKA3              | PUHZ-ZRP140YKA3 |
| Refriger   |                                  |                                 |          |                        |                        |                              | R410A*1                      |                 |                              |                 |
| Power      | Source                           |                                 |          |                        |                        |                              | Outdoor power supply         |                 |                              |                 |
|            |                                  |                                 |          |                        |                        |                              | 0 / Single / 50, YKA:40      |                 |                              |                 |
| Cooling    | Capacity                         | Rated                           | kW       | 7.1                    | 9.5                    | 9.5                          | 12.5                         | 12.5            | 13.4                         | 13.4            |
|            |                                  | Min - Max                       | kW       | 3.3 - 8.1              | 4.9 - 11.4             | 4.9 - 11.4                   | 5.5 - 14.0                   | 5.5 - 14.0      | 6.2 - 15.0                   | 6.2 - 15.0      |
|            | Total Input                      | Rated                           | kW       | 1.89                   | 2.50                   | 2.50                         | 4.09                         | 4.09            | 4.06                         | 4.06            |
|            | EER                              |                                 |          | _                      | _                      | _                            | 3.06                         | 3.06            | 3.30                         | 3.30            |
|            |                                  | EEL Rank                        |          | -                      | -                      | -                            | -                            |                 | -                            | -               |
|            | Design Load                      |                                 | kW       | 7.1                    | 9.5                    | 9.5                          | _                            |                 | -                            | -               |
|            | Annual Electricity               | Consumption*2                   | kWh/a    | 396                    | 595                    | 606                          | -                            |                 | -                            | -               |
|            | SEER*4                           |                                 |          | 6.3                    | 5.6                    | 5.5                          |                              |                 | -                            | -               |
|            |                                  | Energy Efficiency Class         |          | A++                    | Α+                     | A                            | -                            | -               | -                            |                 |
|            | Capacity                         | Rated                           | kW       | 7.6                    | 11.2                   | 11.2                         | 14.0                         | 14.0            | 16.0                         | 16.0            |
| (Average   |                                  | Min - Max                       | kW       | 3.5 - 10.2             | 4.5 - 14.0             | 4.5 - 14.0                   | 5.0 - 16.0                   | 5.0 - 16.0      | 5.7 - 18.0                   | 5.7 - 18.0      |
| Season)    |                                  | Rated                           | kW       | 2.21                   | 3.08                   | 3.08                         | 4.24                         | 4.24            | 4.79                         | 4.79            |
|            | COP                              |                                 |          | -                      | -                      | -                            | 3.30                         | 3.30            | 3.34                         | 3.34            |
|            |                                  | EEL Rank                        |          | -                      | -                      | -                            | -                            | -               | -                            | -               |
|            | Design Load                      |                                 | kW       | 4.7                    | 7.8                    | 7.8                          |                              |                 | -                            | -               |
|            | Declared Capacity                | at reference design temperature | kW       | 4.7 (-10°C)            | 7.8 (-10°C)            | 7.8 (-10°C)                  | -                            | -               | -                            | -               |
|            |                                  | at bivalent temperature         | kW       | 4.7 (-10°C)            | 7.8 (-10°C)            | 7.8 (-10°C)                  |                              |                 | -                            | -               |
|            |                                  | at operation limit temperature  | kW       | 3.5 (-20°C)            | 5.8 (-20°C)            | 5.8 (-20°C)                  |                              |                 | -                            | -               |
|            | Back Up Heating (                |                                 | kW       | 0                      | 0                      | 0                            | -                            |                 | -                            | -               |
|            | Annual Electricity               | Consumption*2                   | kWh/a    | 1666                   | 2761                   | 2761                         |                              |                 | -                            | -               |
|            | SCOP*4                           |                                 |          | 4.0                    | 4.0                    | 4.0                          | -                            | _               | -                            | _               |
|            | L                                | Energy Efficiency Class         |          | A+                     | A+                     | A+                           | -                            | -               | -                            | -               |
|            | ng Current (max)                 | To                              | A        | 19.4                   | 27.2                   | 8.7                          | 27.2                         | 10.2            | 28.7                         | 13.7            |
| Indoor     | Input                            | Rated                           | kW       | 0.06                   | 0.11                   | 0.11                         | 0.11<br>0.73                 | 0.11            | 0.11                         | 0.11            |
| Unit       | Operating Current                |                                 | Α        | 0.4                    | 0.71                   | 0.71                         |                              | 0.73            | 0.73                         | 0.73            |
|            | Dimensions <panel></panel>       | ]H × W × D                      | mm       |                        | 46                     | 10                           | 1900 - 600 - 360             | 46              | 48                           | 48              |
|            | Weight <panel></panel>           | 1.1.12                          | kg       | 46<br>20 - 22 - 24     | 25 - 28 - 30           | 46<br>25 - 28 - 30           | 46<br>25 - 28 - 31           | 25 - 28 - 31    | 25 - 28 - 31                 | 25 - 28 - 31    |
|            | Air Volume [Lo-Mio               |                                 | m³/min   |                        |                        | 25 - 28 - 30<br>45 - 49 - 51 | 25 - 28 - 31<br>45 - 49 - 51 | 45 - 49 - 51    | 25 - 28 - 31<br>45 - 49 - 51 | 45 - 49 - 51    |
|            | Sound Level (SPL)                |                                 | dB(A)    | 40 - 42 - 44<br>60     | 45 - 49 - 51<br>65     | 65                           | 45 - 49 - 51                 | 45 - 49 - 51    | 45 - 49 - 51                 | 45 - 49 - 51    |
| 044        | Sound Level (PWL<br>r Dimensions | .)<br>  H × W × D               |          | 943-950-330(+30)       | 00                     | 00                           | 1338-1050                    |                 | 00                           | 00              |
| Unit       | Weight                           | IH X W X D                      | mm<br>kg | 70                     | 116                    | 123                          | 116                          | 125             | 118                          | 131             |
| Oilit      | Air Volume                       | Cooling                         | m³/min   | 55.0                   | 110.0                  | 110.0                        | 120.0                        | 120.0           | 120.0                        | 120.0           |
|            | All volulle                      | Heating                         | m³/min   | 55.0                   | 110.0                  | 110.0                        | 120.0                        | 120.0           | 120.0                        | 120.0           |
|            | Sound Level (SPL)                | Cooling                         | dB(A)    | 47                     | 49                     | 49                           | 50                           | 50              | 50                           | 50              |
|            | Sound Level (SFL)                | Heating                         | dB(A)    | 48                     | 51                     | 51                           | 52                           | 52              | 52                           | 52              |
|            | Sound Level (PWL)                |                                 | dB(A)    | 67                     | 69                     | 69                           | 70                           | 70              | 70                           | 70              |
|            | Operating Current                |                                 | A A      | 19.0                   | 26.5                   | 8.0                          | 26.5                         | 9.5             | 28.0                         | 13.0            |
|            | Breaker Size                     | (IIIaA)                         | A        | 25                     | 32                     | 16                           | 32                           | 16              | 40                           | 16              |
| Ext.       | Diameter Diameter                | Liquid / Gas                    | mm       | 9.52 / 15.88           | 9.52 / 15.88           | 9.52 / 15.88                 | 9.52 / 15.88                 | 9.52 / 15.88    | 9.52 / 15.88                 | 9.52 / 15.88    |
| Piping     | Max. Length                      | Out-In                          | m        | 50                     | 75                     | 75                           | 75                           | 75              | 75                           | 75              |
| . iping    | Max. Height                      | Out-In                          | m        | 30                     | 30                     | 30                           | 30                           | 30              | 30                           | 30              |
| Guarant    | eed Operating Range              |                                 | °C       | -15 ~ +46              | -15 ~ +46              | -15 ~ +46                    | -15 ~ +46                    | -15 ~ +46       | -15 ~ +46                    | -15 ~ +46       |
| Outdoo     | rl Operating Range               |                                 | °C       | -15 ~ +46<br>-20 ~ +21 | -15 ~ +46<br>-20 ~ +21 | -15 ~ +46<br>-20 ~ +21       | -15 ~ +46<br>-20 ~ +21       | -20 ~ +21       | -20 ~ +21                    | -20 ~ +21       |
| LOGITATION | 11                               | Heating                         |          | -20 ~ +21              | -20 ~ +21              | -20 ~ +21                    | -20 ~ +21                    | -20 ~ +21       | +Z1                          | -20 ~ +21       |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R41OA is 2088 in the IPCC 4th Assessment Report.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 Optional air protection guide is required where ambient temperature is lower than –5°C.

\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.



















































| PSA-RP SERIES     |  |
|-------------------|--|
| STANDARD INVERTER |  |













|  | Τ |
|--|---|
|  |   |

| Туре     |                              |                                 |        |              |              | Inverter H             | eat Pump     |              |              |
|----------|------------------------------|---------------------------------|--------|--------------|--------------|------------------------|--------------|--------------|--------------|
| ndoor U  | nit                          |                                 |        | PSA-RI       | 2100KA       |                        | P125KA       | PSA-RF       | 140KA        |
| Outdoor  |                              |                                 |        | PUHZ-P100VKA | PUHZ-P100YKA | PUHZ-P125VKA           | PUHZ-P125YKA | PUHZ-P140VKA | PUHZ-P140YKA |
| efrigera |                              |                                 |        |              |              | R41                    |              |              |              |
| ower     | Source                       |                                 |        |              |              |                        | wer supply   |              |              |
| upply    | Outdoor (V/Phase             | /Hz)                            |        |              |              | VKA:230 / Single / 50, |              |              |              |
| oolina   | Capacity                     | Rated                           | kW     | 9.4          | 9.4          | 12.1                   | 12.1         | 13.6         | 13.6         |
|          |                              | Min - Max                       | kW     | 3.7 - 10.6   | 3.7 - 10.6   | 5.6 - 13.0             | 5.6 - 13.0   | 5.8 - 13.7   | 5.8 - 13.7   |
|          | Total Input                  | Rated                           | kW     | 3.12         | 3.12         | 5.02                   | 5.02         | 6.38         | 6.38         |
|          | EER                          |                                 |        | 3.01         | 3.01         | 2.41                   | 2.41         | 2.13         | 2.13         |
|          |                              | EEL Rank                        |        | -            | -            | -                      | -            | -            | -            |
|          | Design Load                  |                                 | kW     | 9.4          | 9.4          | -                      | -            | -            | -            |
|          | Annual Electricity           | Consumption*2                   | kWh/a  | 644          | 644          | _                      | _            | _            | -            |
|          | SEER*4                       |                                 |        | 5.1          | 5.1          | _                      | _            | _            | -            |
|          |                              | Energy Efficiency Class         |        | A            | A            | -                      | -            | -            | -            |
|          | Capacity                     | Rated                           | kW     | 11.2         | 11.2         | 13.5                   | 13.5         | 15.0         | 15.0         |
| verage   |                              | Min - Max                       | kW     | 2.8 - 12.5   | 2.8 - 12.5   | 4.8 - 15.0             | 4.8 - 15.0   | 4.9 - 15.8   | 4.9 - 15.8   |
| ason)    | Total Input                  | Rated                           | kW     | 3.28         | 3.28         | 4.80                   | 4.80         | 4.82         | 4.82         |
|          | COP                          |                                 |        | 3.41         | 3.41         | 2.81                   | 2.81         | 3.11         | 3.11         |
|          |                              | EEL Rank                        |        | -            | -            | _                      | -            | -            | -            |
|          | Design Load                  |                                 | kW     | 8.0          | 8.0          | _                      | -            | -            | _            |
|          | Declared Capacity            | at reference design temperature | kW     | 6.0 (-10°C)  | 6.0 (-10°C)  | _                      | -            | -            | -            |
|          |                              | at bivalent temperature         | kW     | 7.0 (-7°C)   | 7.0 (-7°C)   | _                      | -            | -            | _            |
|          |                              | at operation limit temperature  | kW     | 4.5 (-15°C)  | 4.5 (-15°C)  | -                      | _            | -            | _            |
|          | Back Up Heating (            |                                 | kW     | 2.0          | 2.0          | -                      | -            | -            | -            |
|          | Annual Electricity<br>SCOP*4 | Consumption*2                   | kWh/a  | 2794         | 2794<br>4.0  | -                      | -            | -            | -            |
|          |                              | Energy Efficiency Class         |        | 4.0<br>A+    | 4.0<br>A+    | -                      | -            | -            | =            |
| · ovotiv | ng Current (max)             | Ellergy Efficiency Class        | I A    | 20.7         | 12.2         | 27.2                   | 12.2         | 30.7         | 12.2         |
| door     | Input                        | Rated                           | kW     | 0.11         | 0.11         | 0.11                   | 0.11         | 0.11         | 0.11         |
| it       | Operating Current            |                                 | A      | 0.71         | 0.71         | 0.73                   | 0.73         | 0.73         | 0.73         |
|          | Dimensions <panel></panel>   |                                 | mm     | 0.71         | 0.71         |                        | 00 - 360     | 0.73         | 0.73         |
|          | Weight <panel></panel>       | III A W A B                     | ka     | 46           | 46           | 46                     | 46           | 48           | 48           |
|          | Air Volume [Lo-Mie           | -LHi1                           | m³/min | 25 - 28 - 30 | 25 - 28 - 30 | 25 - 28 - 31           | 25 - 28 - 31 | 25 - 28 - 31 | 25 - 28 - 31 |
|          | Sound Level (SPL)            |                                 | dB(A)  | 45 - 49 - 51 | 45 - 49 - 51 | 45 - 49 - 51           | 45 - 49 - 51 | 45 - 49 - 51 | 45 - 49 - 51 |
|          | Sound Level (PWL             |                                 | dB(A)  | 65           | 65           | 66                     | 66           | 66           | 66           |
| utdoor   | Dimensions                   | H×W×D                           | mm     | 981 - 10     | 50 - 330     | 981 - 10               | 50 - 330     | 981 - 10     | 50 - 330     |
| nit      | Weight                       |                                 | kg     | 76           | 78           | 84                     | 85           | 84           | 85           |
|          | Air Volume                   | Cooling                         | m³/min | 79           | 79           | 86                     | 86           | 86           | 86           |
|          |                              | Heating                         | m³/min | 79           | 79           | 92                     | 92           | 92           | 92           |
|          | Sound Level (SPL)            | Cooling                         | dB(A)  | 51           | 51           | 54                     | 54           | 56           | 56           |
|          |                              | Heating                         | dB(A)  | 54           | 54           | 56                     | 56           | 57           | 57           |
|          | Sound Level (PWL)            |                                 | dB(A)  | 70           | 70           | 72                     | 72           | 75           | 75           |
|          | Operating Current            | (max)                           | Α      | 20.0         | 11.5         | 26.5                   | 11.5         | 30.0         | 11.5         |
|          | Breaker Size                 |                                 | А      | 32           | 16           | 32                     | 16           | 40           | 16           |
| rt.      | Diameter                     | Liquid / Gas                    | mm     | 9.52 / 15.88 | 9.52 / 15.88 | 9.52 / 15.88           | 9.52 / 15.88 | 9.52 / 15.88 | 9.52 / 15.88 |
| ping     | Max. Length                  | Out-In                          | m      | 50           | 50           | 50                     | 50           | 50           | 50           |
|          | Max. Height                  | Out-In                          | m      | 30           | 30           | 30                     | 30           | 30           | 30           |
|          | ed Operating Range           |                                 | °C     | -15 ~ +46    | -15 ~ +46    | -15 ~ +46              | -15 ~ +46    | -15 ~ +46    | -15 ~ +46    |
| Outdoor  | 1                            | Heating                         | °C     | -15 ~ +21    | -15 ~ +21    | -15 ~ +21              | -15 ~ +21    | -15 ~ +21    | -15 ~ +21    |

<sup>1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with ligher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

3 Optional air protection guide is required where ambient temperature is lower than -5°C.

4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

# MULTI SPLISSERIES







# **SELECTION**

Choose from types of indoor units and outdoor units that can run up to six indoor units each. Create the system that best matches room shapes and number of rooms.





# Check Indoor Units Refer to the "Indoor Unit Compatibility Table" to check if the indoor unit selected can be used with the outdoor unit selected. (Indoor units not listed in the table cannot be used.) Refer to the "Combination Table" to check if the capacity combination of the indoor unit selected is connectable. (Combinations not listed cannot be connected.) If the desired combination cannot be found, please change either the indoor or outdoor unit to match one of the combinations shown in the tables.

# MXZ SERIES

Advancements in the MXZ Series include efficiency and flexibility in system expansion capabilities. The best solution when requiring multi-system air conditioning needs.





MXZ-2F33VF3 MXZ-2F42VF3 MXZ-2F53VF(H)3



3-port 4-port

MXZ-3F54VF3

MXZ-3F68VF3

MX7-4F72VF3

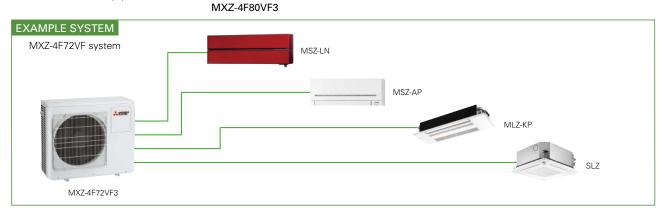


4-port 5-port MXZ-4F83VF MXZ-5F102VF



R32 6-port

MXZ-6F122VF



# Units can be used even if it is connected to only one indoor unit (4F83/5F102/6F122)

This unit can be used even if it is connected to only one indoor unit. This offers more flexibility for wide range of application that satisfies various customers' demand.

# No necessity for refrigerant charging

Depending on the pipe length and the indoor units that are connected, conventional models have required refrigerant charging, but no R32 MXZ model needs to be charged with additional refrigerant. This eliminates troublesome work at the site of installation, and reduces the amount of additional work for the installer.

# Handle Up to 6 Rooms with a Single Outdoor Unit

The MXZ Series for R32 offers a ten-system line-up to choose from, ranging between 3.3 and 12.2kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

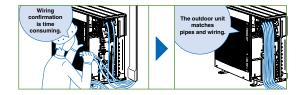
# Support Functions

# Wiring/Piping Correction Function\* (3F54/3F68/4F72/4F80/4F83/5F102/6F122)

Simply press a single button to confirm if wiring and piping are properly connected. Wiring errors are corrected automatically when discovered. This eliminates the need to confirm complicated wiring connections when expanding the system. (For details, refer to the outdoor unit installation manual.)

\* Function cannot be used when the outdoor temperature is below 0°C.

The correction process requires 10–20 minutes to complete and must be conducted with the unit set to the "Cooling" mode.



# **Operation Lock**

To accommodate specific use applications, cooling or heating operation can be specified when setting the control board of the outdoor unit. A convenient option when a system needs to be configured for exclusive cooling or heating service. (For details, refer to the outdoor unit installation manual.)













| Type (Inverter Multi - Split Heat Pump) |                             |                        | Up to 2 Indoor Units |  |                                  | Up to 3 Indoor Units Up to 4 Indoor U |                     |                             | nits                | Up to 5 Indoor Units |                  |                 |                      |
|---|-----------------------------|------------------------|----------------------|--|----------------------------------|---------------------------------------|---------------------|-----------------------------|---------------------|----------------------|------------------|-----------------|----------------------|
| Indoor Ur                               | nit                         |                        |                      |  | Please refer to *3               |                                       |                     |                             |                     |                      |                  |                 |                      |
| Outdoor l                               | Jnit                        |                        |                      | MXZ-2F33VF3 MXZ-2F42VF3 MXZ-2F53VF3 MXZ-2F53VFH3 MXZ-3F54VF3 MXZ-3F68VF3 MXZ-4F72VF3 MXZ-4F80VF3 MXZ-4F83VF3 MXZ-5F102VF |                                  |                                       |                     |                             |                     |                      |                  |                 |                      |
| Refrigera                               | nt                          |                        |                      | R32*1  |                                  |                                       |                     |                             |                     |                      |                  |                 |                      |
| Power Source                            |                             |                        |                      |  |                                  |                                       |                     | Out                         | door power sur      | oply                 |                  |                 | -                    |
| Supply                                  | Outdoor (V/Phase/H          | łz)                    |                      |  | 220 - 230 - 240V / Single / 50Hz |                                       |                     |                             |                     |                      |                  |                 |                      |
| Cooling                                 | Capacity                    | Rated                  | kW                   | 3.3  | 4.2                              | 5.3                                   | 5.3                 | 5.4                         | 6.8                 | 7.2                  | 8.0              | 8.3             | 10.2                 |
|   | Input                       | Rated                  | kW                   | 0.85   | 0.98                             | 1.40                                  | 1.40                | 1.32                        | 1.84                | 1.85                 | 2.25             | 1.97            | 2.80                 |
|   | EER*3                       | •                      | •                    | 3.88   | 4.29                             | 3.79                                  | 3.79                | 4.10                        | 3.70                | 3.89                 | 3.56             | 4.21            | 3.64                 |
|   | Design Load                 |                        | kW                   | 3.3  | 4.2                              | 5.3                                   | 5.3                 | 5.4                         | 6.8                 | 7.2                  | 8.0              | 8.3             | 10.2                 |
|   | Annual Electricity          | Consumption*2          | kWh/a                | 189  | 169                              | 216                                   | 216                 | 222                         | 301                 | 311                  | 368              | 342             | 436                  |
|   | SEER*3,*5                   |                        |                      | 6.1  | 8.7                              | 8.6                                   | 8.6                 | 8.5                         | 7.9                 | 8.1                  | 7.6              | 8.5             | 8.2                  |
|   |                             | Energy Efficiency (    | class*3              | A++  | A+++                             | A+++                                  | A+++                | A+++                        | A++                 | A++                  | A++              | A+++            | A++                  |
| Heating                                 | Capacity                    | Rated                  | kW                   | 4.0  | 4.5                              | 6.4                                   | 6.4                 | 7.0                         | 8.6                 | 8.6                  | 8.8              | 9.3             | 10.5                 |
| (Average                                |                             | Rated                  | kW                   | 0.91   | 0.88                             | 1.56                                  | 1.56                | 1.40                        | 1.91                | 1.87                 | 2.00             | 2.00            | 2.28                 |
| Season)                                 | COP*3                       |                        |                      | 4.40   | 5.11                             | 4.10                                  | 4.10                | 5.00                        | 4.50                | 4.60                 | 4.40             | 4.65            | 4.60                 |
|   | Design Load                 |                        | kW                   | 2.7  | 3.5                              | 3.5                                   | 3.5                 | 5.2                         | 6.8                 | 7.0                  | 7.0              | 7.0             | 7.4                  |
|   | Declared at referen         | ice design temperature | kW                   | 2.2  | 2.7                              | 2.7                                   | 2.7                 | 4.2                         | 5.7                 | 5.6                  | 5.6              | 5.8             | 5.9                  |
|   | Capacity at bivaler         | nt temperature         | kW                   | 2.4  | 2.9                              | 2.9                                   | 2.9                 | 4.7                         | 6.4                 | 6.2                  | 6.2              | 6.2             | 6.4                  |
|   | at operat                   | ion limit temperature  | kW                   | 1.6  | 2.3                              | 2.3                                   | 2.1                 | 3.2                         | 4.6                 | 4.8                  | 4.8              | 4.9             | 4.9                  |
|   | Back Up Heating (           | Capacity               | kW                   | 0.5  | 0.8                              | 0.8                                   | 0.8                 | 1.0                         | 1.1                 | 1.4                  | 1.4              | 1.2             | 1.5                  |
|   | Annual Electricity          | Consumption*2          | kWh/a                | 944  | 1065                             | 1065                                  | 1089                | 1583                        | 2321                | 2389                 | 2389             | 2087            | 2205                 |
|   | SCOP*3,*5                   |                        |                      | 4.0  | 4.6                              | 4.6                                   | 4.5                 | 4.6                         | 4.1                 | 4.1                  | 4.1              | 4.7             | 4.7                  |
|   |                             | Energy Efficiency (    | Class*3              | A+   | A++                              | A++                                   | A+                  | A++                         | A <sup>+</sup>      | A <sup>+</sup>       | A+               | A++             | A++                  |
| Operatin                                | g Current (max)             |                        | Α                    | 10.0   | 12.2                             | 12.2                                  | 12.2                | 18.0                        | 18.0                | 18.0                 | 18.0             | 21.4            | 21.4                 |
|   | Dimensions                  | $H \times W \times D$  | mm                   |  | 550 - 8                          | 00 (+69) - 285                        | (+59.5)             | 710 - 840 (+30) - 330 (+66) |                     | 796 - 98             | 50 - 330         |                 |                      |
| Unit                                    | Weight                      |                        | kg                   | 33   | 37                               | 37                                    | 38                  | 58                          | 58                  | 59                   | 59               | 62              | 62                   |
|   | Air Volume                  | Cooling                | m³/min               | 31.5   | 28.4                             | 32.7                                  | 32.7                | 31                          | 35.4                | 35.4                 | 40.3             | 57              | 63                   |
|   |                             | Heating                | m³/min               | 32.3   | 33.5                             | 34.7                                  | 34.7                | 31                          | 39.6                | 42.7                 | 44.1             | 62              | 75                   |
|   | Sound Level (SPL)           | Cooling                | dB(A)                | 49   | 44                               | 46                                    | 46                  | 46                          | 48                  | 48                   | 50               | 49              | 52                   |
|   |                             | Heating                | dB(A)                | 50   | 50                               | 51                                    | 51                  | 50                          | 53                  | 54                   | 55               | 51              | 56                   |
|   | Sound Level (PWL)           | Cooling                | dB(A)                | 60   | 59                               | 61                                    | 61                  | 60                          | 63                  | 63                   | 65               | 61              | 65                   |
|   | Operating Current           | Cooling                | Α                    | 4.3 - 4.1 - 3.9  | 4.9 - 4.7 - 4.5                  | 6.5 - 6.2 - 6.0                       | 6.5 - 6.2 - 6.0     | 6.0 - 5.7 - 5.5             | 8.4 - 8.0 - 7.7     | 8.5 - 8.1 - 7.8      | 10.3 - 9.9 - 9.5 | 9.1 - 8.7 - 8.3 | 12.9 - 12.3 - 11.8   |
|   |                             | Heating                | Α                    | 4.6 - 4.4 - 4.2  | 4.4 - 4.3 - 4.1                  | 7.5 - 7.1 - 6.8                       | 7.5 - 7.1 - 6.8     |                             |                     |                      | 9.2 - 8.8 - 8.4  |                 | 10.5 - 10.0 - 9.6    |
|   | Breaker Size                |                        | Α                    | 15   | 15                               | 15                                    | 15                  | 25                          | 25                  | 25                   | 25               | 25              | 25                   |
| Ext.                                    | Port Diameter               | Liquid / Gas           | mm                   | 6.35 × 2 / 9.52 × 2  | 6.35 × 2 / 9.52 × 2              | 6.35 × 2 / 9.52 × 2                   | 6.35 × 2 / 9.52 × 2 | 6.35 × 3 / 9.52 × 3         | 6.35 × 3 / 9.52 × 3 | 6.35 ×               | 4 / 12.7 × 1 + 9 | .52 × 3         | 6.35x5/12.7x1+9.52x4 |
| Piping                                  | Total Piping Length (max) m |                        | 20                   | 30   | 30                               | 30                                    | 50                  | 60                          | 60                  | 60                   | 70               | 80              |                      |
|   | Each Indoor Unit Pip        | oing Length (max)      | m                    | 15   | 20                               | 20                                    | 20                  | 25                          | 25                  | 25                   | 25               | 25              | 25                   |
|   | Max. Height                 |                        | m                    | 10   | 15(15)                           | 15(15)                                | 15(15)              | 15(15)                      | 15(15)              | 15(15)               | 15(15)           | 15              | 15                   |
|   | Chargeless Length           |                        | m                    | 20   | 30                               | 30                                    | 30                  | 50                          | 60                  | 60                   | 60               | 70              | 80                   |
|   | ed Operating Range          | Cooling                | °C                   |  | -10 ~ +46                        |                                       | -10 ~ +46           |                             |                     |                      | +46              |                 |                      |
| [Outdoor]                               |                             | Heating                | °C                   |  | -15 ~ +24                        |                                       | -20 ~ +24           |                             |                     | -15 -                | +24              |                 |                      |

| Type (In  | verter Multi - Split He     | at Pump)     |                                | Up to 6 Indoor Units |  |  |
|-----------|-----------------------------|--------------|--------------------------------|----------------------|--|--|
| Indoor U  | nit                         |              |                                | Please refer to (*4) |  |  |
| Outdoor   | Unit                        |              |                                | MXZ-6F122VF          |  |  |
| Refrigera | int                         |              |                                | R32*1                |  |  |
| Power     | Source                      |              |                                | Outdoor power supply |  |  |
| Supply    | Outdoor (V/Phase/F          | łz)          | 220 - 230 - 240V / Single / 50 |                      |  |  |
| Cooling   | Capacity                    | Rated        | kW                             | 12.2                 |  |  |
|           | Input                       | Rated        | kW                             | 3.66                 |  |  |
|           | EER*4                       |              |                                | 3.33                 |  |  |
| Heating   | Capacity                    | Rated        | kW                             | 14.0                 |  |  |
|           | Input                       | Rated        | kW                             | 3.31                 |  |  |
|           | COP*4                       |              |                                | 4.23                 |  |  |
| Operatin  | g Current (max)             |              | Α                              | 29.8                 |  |  |
| Outdoor   | <b>Dimensions</b> H × W × D |              | mm                             | 1048 - 950 - 330     |  |  |
| Unit      | Weight                      |              | kg                             | 87                   |  |  |
|           | Air Volume                  | Cooling      | m³/min                         | 63                   |  |  |
|           |                             | Heating      | m³/min                         | 77                   |  |  |
|           | Sound Level (SPL)           | Cooling      | dB(A)                          | 55                   |  |  |
|           |                             | Heating      | dB(A)                          | 57                   |  |  |
|           | Sound Level (PWL)           | Cooling      | dB(A)                          | 69                   |  |  |
|           | Breaker Size                |              | Α                              | 32                   |  |  |
| Ext.      | Diameter                    | Liquid       | mm                             | 6.35 x 6             |  |  |
| Piping    |                             | Gas          | mm                             | 12.7 x 1 + 9.52 x 5  |  |  |
|           | Total Piping Length         | (max)        | m                              | 80                   |  |  |
|           | Each Indoor Unit Piping     | Length (max) | m                              | 25                   |  |  |
|           | Max. Height                 |              | m                              | 15                   |  |  |
|           | Chargeless Length           |              | m                              | 80                   |  |  |
|           | ed Operating Range          | Cooling      | °C                             | -10 ~ +46            |  |  |
| [Outdoor  | ]                           | Heating      | °C                             | -15 ~ +24            |  |  |

# MXZ SERIES

Advancements in the MXZ Series include efficiency and flexibility in system expansion capabilities. The best solution when requiring multi-system air conditioning needs.





R410A 2-port

MXZ-2D33VA MXZ-2D42VA2 MXZ-2D53VA(H)2



R410A

3-port 4-port MXZ-3E54VA MXZ-3E68VA

MXZ-4E72VA



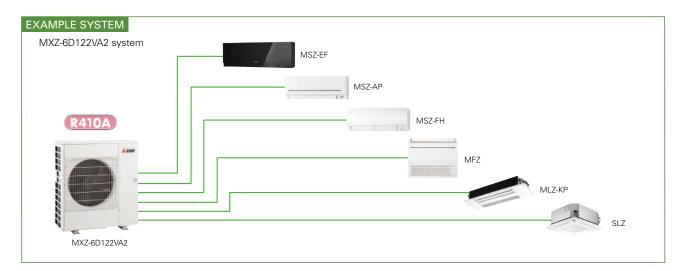
**R410A** 

MXZ-4E83VA MXZ-5E102VA



**R410A** 

6-port MXZ-6D122VA2



# Handle Up to 6 Rooms with a Single Outdoor Unit

The MXZ Series offers a nine-system line-up to choose from, ranging between 3.3 and 12.2kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

# Support Functions -

# Wiring/Piping Correction Function\* (3E54/3E68/4E72/4E83/5E102/6D122)

Simply press a single button to confirm if wiring and piping are properly connected. Wiring errors are corrected automatically when discovered. This eliminates the need to confirm complicated wiring connections when expanding the system. (For details, refer to the outdoor unit installation manual.)

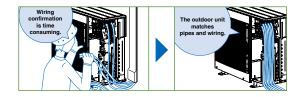
\* Function cannot be used when the outdoor temperature is below  $0^{\circ}$ C. The correction process requires 10-20 minutes to complete and must be conducted with the unit set to the "Cooling" mode.

# Ampere Limit Adjustment\*

(4E83/5E102/6D122)

Dipswitch settings can be used to adjust the maximum electrical current for operation. This function is highly recommended for managing energy costs. (For details, refer to the outdoor unit installation manual.)

\* Maximum capacity is lowered with the use of this function.



# **Operation Lock**

To accommodate specific use applications, cooling or heating operation can be specified when setting the control board of the outdoor unit. A convenient option when a system needs to be configured for exclusive cooling or heating service. (For details, refer to the outdoor unit installation manual.)















| Type (Inv   | erter Multi - Split He               | at Pump)              |         |               | Up to 2 In     | door Units            |                    | Up to 3 In        | door Units     | Up to 4 In            | door Units    | Up to 5 Indoor Units |
|-------------|--------------------------------------|-----------------------|---------|---------------|----------------|-----------------------|--------------------|-------------------|----------------|-----------------------|---------------|----------------------|
| Indoor Unit |                                      |                       |         |               |                | F                     | Please refer to (* |                   |                |                       |               |                      |
| Outdoor I   | Jnit                                 |                       |         | N: MXZ-2D33VA | N: MXZ-2D42VA2 | N: MXZ-2D53VA2        | N: MXZ-2D53VAH2    | N: MXZ-3E54VA     | N: MXZ-3E68VA  | N: MXZ-4E72VA         | MXZ-4E83VA    | MXZ-5E102VA          |
| Refrigera   | nt                                   |                       |         |               |                |                       |                    | R410A*1           |                | •                     | •             | •                    |
| Power       | Source                               |                       |         |               |                |                       | Οι                 | ıtdoor power sup  | ply            |                       |               |                      |
| Supply      | Outdoor (V/Phase/F                   | łz)                   |         |               |                |                       | 220 -              | 230 - 240V / Sing | ile / 50       |                       |               |                      |
| Cooling     | Capacity                             | Rated                 | kW      | 3.3           | 4.2            | 5.3                   | 5.3                | 5.4               | 6.8            | 7.2                   | 8.3           | 10.2                 |
|             |                                      | Min - Max             | kW      | 1.1 - 3.8     | 1.1 - 4.4      | 1.1 - 5.6             | 1.1 - 5.6          | 2.9 - 6.8         | 2.9 - 8.4      | 3.7 - 8.8             | 3.7 - 9.2     | 3.9 - 11.0           |
|             | Input (Indoor+Outdoor)               | Rated                 | kW      | 0.90          | 1.00           | 1.54                  | 1.54               | 1.35              | 2.19           | 2.25                  | 2.44          | 3.15                 |
|             | Design Load                          | •                     | kW      | 3.3           | 4.2            | 5.3                   | 5.3                | 5.4               | 6.8            | 7.2                   | 8.3           | 10.2                 |
|             | Annual Electricity Co                | onsumption*2          | kWh/a   | 211           | 216            | 262                   | 262                | 295               | 425            | 443                   | 460           | 537                  |
|             | SEER*4.*7                            |                       |         | 5.5           | 6.8            | 7.1                   | 7.1                | 6.4               | 5.6            | 5.7                   | 6.3           | 6.6                  |
|             |                                      | Energy Efficiency (   | Class*4 | А             | A++            | A++                   | A++                | A++               | A+             | A+                    | A++           | A++                  |
| Heating     | Capacity                             | Rated                 | kW      | 4.0           | 4.5            | 6.4                   | 6.4                | 7.0               | 8.6            | 8.6                   | 9.3           | 10.5                 |
| (Average    |                                      | Min - Max             | kW      | 1.0 - 4.1     | 1.0 - 4.8      | 1.0 - 7.0             | 1.0 - 7.0          | 2.6 - 9.0         | 2.6 - 10.6     | 3.4 - 10.7            | 3.4 - 11.6    | 4.1 - 14.0           |
| Season)     | Input (Indoor+Outdoor)               | Rated                 | kW      | 0.96          | 0.93           | 1.70                  | 1.70               | 1.59              | 2.38           | 2.28                  | 2.00          | 2.34                 |
|             | Design Load                          |                       | kW      | 2.7           | 3.2            | 4.5                   | 4.5                | 5.0               | 6.8            | 7.0                   | 8.7           | 8.9                  |
|             | Declared at reference                | design temperature    | kW      | 2.1           | 2.7            | 3.7                   | 3.6                | 4.0               | 5.4            | 5.6                   | 7.1           | 7.3                  |
|             | Capacity at bivalent t               | emperature            | kW      | 2.4           | 3.0            | 4.0                   | 4.0                | 4.49              | 6.0            | 6.2                   | 7.8           | 7.9                  |
|             | at operation limit temperature kW    |                       | kW      | 1.7           | 2.3            | 3.3                   | 3.0                | 3.17              | 4.4            | 4.7                   | 6.0           | 6.3                  |
|             | Back Up Heating Capacity kW          |                       | kW      | 0.6           | 0.5            | 0.8                   | 0.9                | 1.0               | 1.4            | 1.4                   | 1.6           | 1.6                  |
|             | Annual Electricity Consumption*2 kWh |                       | kWh/a   | 926           | 1065           | 1507                  | 1546               | 1751              | 2466           | 2516                  | 2889          | 2958                 |
|             | SCOP*4.*7                            |                       |         | 4.1           | 4.2            | 4.2                   | 4.1                | 4.0               | 3.9            | 3.9                   | 4.2           | 4.2                  |
|             |                                      | Energy Efficiency (   | Class*4 | A+            | A+             | A+                    | A+                 | A+                | А              | А                     | A+            | A+                   |
| Max. Ope    | erating Current (Indo                | or+Outdoor)           | Α       | 10.0          | 12.2           | 12.2                  | 12.2               | 18.0              | 18.0           | 18.0                  | 21.4          | 21.4                 |
| Outdoor     | Dimensions                           | $H \times W \times D$ | mm      |               | 550 - 800(+69  | 9) - 285 (+59.5)      |                    | 710 -             | 840(+30) - 330 | (+66)                 | 796 - 98      | 50 - 330             |
| Unit        | Weight                               | •                     | kg      | 32            | 37             | 37                    | 38                 | 58                | 58             | 59                    | 63            | 64                   |
|             | Air Volume                           | Cooling               | m³/min  | 32.9          | 27.7           | 32.9                  | 32.9               | 42.1              | 42.1           | 42.1                  | 55.6          | 65.1                 |
|             |                                      | Heating               | m³/min  | 33.7          | 33.3           | 33.3                  | 33.3               | 43.0              | 43.0           | 43.0                  | 55.6          | 68.0                 |
|             | Sound Level (SPL)                    | Cooling               | dB(A)   | 49            | 46             | 50                    | 50                 | 50                | 50             | 50                    | 49            | 52                   |
|             |                                      | Heating               | dB(A)   | 50            | 51             | 53                    | 53                 | 53                | 53             | 53                    | 51            | 56                   |
|             | Sound Level (PWL)                    | Cooling               | dB(A)   | 63            | 60             | 64                    | 64                 | 64                | 64             | 64                    | 61            | 65                   |
|             | Breaker Size                         |                       | Α       | 10            | 15             | 15                    | 15                 | 25                | 25             | 25                    | 25            | 25                   |
| Ext.        | Diameter                             | Liquid                | mm      | 6.35 × 2      | 6.35 × 2       | 6.35 × 2              | 6.35 × 2           | 6.35 x 3          | 6.35 x 3       | 6.35 x 4              | 6.35 × 4      | 6.35 × 5             |
| Piping      |                                      | Gas                   | mm      | 9.52 × 2      | 9.52 × 2       | 9.52 × 2              | 9.52 × 2           | 9.52 x 3          | 9.52 x 3       | 12.7×1+9.52×3         | 12.7×1+9.52×3 | 12.7×1+9.52×4        |
|             | Total Piping Length (max) m          |                       | m       | 20            | 30             | 30                    | 30                 | 50                | 60             | 60                    | 70            | 80                   |
|             | Each Indoor Unit Pip                 | oing Length (max)     | m       | 15            | 20             | 20                    | 20                 | 25                | 25             | 25                    | 25            | 25                   |
|             | Max. Height                          |                       | m       | 10            | 15 (10)*3      | 15 (10)* <sup>3</sup> | 15 (10)*3          | 15 (10)*3         | 15 (10)*3      | 15 (10)* <sup>3</sup> | 15 (10)*3     | 15 (10)*3            |
|             | Chargeless Length                    |                       | m       | 20            | 20             | 20                    | 20                 | 40                | 40             | 40                    | 25            | 0                    |
|             | ed Operating Range                   | Cooling               | °C      | -10 ~ +46     | -10 ~ +46      | -10 ~ +46             | -10 ~ +46          | -10 ~ +46         | -10 ~ +46      | -10 ~ +46             | -10 ~ +46     | -10 ~ +46            |
| [Outdoor]   |                                      | Heating               | °C      | -15 ~ +24     | -15 ~ +24      | -15 ~ +24             | -20 ~ +24          | -15 ~ +24         | -15 ~ +24      | -15 ~ +24             | -15 ~ +24     | -15 ~ +24            |

N: Please refer to the NOTE below.

| T 0.      | THE RESERVE ASSESSED.   |                       |        |                                |  |  |
|-----------|-------------------------|-----------------------|--------|--------------------------------|--|--|
| Iype (Inv | verter Multi - Split He | at Pump)              |        | Up to 6 Indoor Units           |  |  |
|           |                         |                       |        | Please refer to (*5)           |  |  |
| Outdoor I |                         |                       |        | MXZ-6D122VA2                   |  |  |
| Refrigera |                         |                       |        | R410A*1                        |  |  |
| Power     | Source                  |                       |        | Outdoor power supply           |  |  |
| Supply    | Outdoor (V/Phase/F      |                       |        | 220 - 230 - 240V / Single / 50 |  |  |
| Cooling   | Capacity                | Rated                 | kW     | 12.2                           |  |  |
|           |                         | Min - Max             | kW     | 3.5 - 13.5                     |  |  |
|           | Input*5                 | Rated                 | kW     | 3.66                           |  |  |
|           | EER*6                   |                       |        | 3.33                           |  |  |
|           |                         | EEL Rank              |        | A                              |  |  |
| Heating   | Capacity                | Rated                 | kW     | 14.0                           |  |  |
|           |                         | Min - Max             | kW     | 3.5 - 16.5                     |  |  |
|           | Input*5                 | Rated                 | kW     | 3.31                           |  |  |
|           | COP*6                   |                       |        | 4.23                           |  |  |
|           |                         | EEL Rank              |        | A                              |  |  |
| Operatin  | g Current (max)*5       |                       | Α      | 26.8                           |  |  |
|           | Dimensions              | $H \times W \times D$ | mm     | 1048-950-330                   |  |  |
| Unit      | Weight                  |                       | kg     | 88                             |  |  |
|           | Air Volume              | Cooling               | m³/min | 63.0                           |  |  |
|           |                         | Heating               | m³/min | 77.0                           |  |  |
|           | Sound Level (SPL)       | Cooling               | dB(A)  | 55                             |  |  |
|           |                         | Heating               | dB(A)  | 57                             |  |  |
|           | Sound Level (PWL)       | Cooling               | dB(A)  | 70                             |  |  |
|           | Breaker Size            |                       | Α      | 32                             |  |  |
| Ext.      | Diameter                | Liquid                | mm     | 6.35×6                         |  |  |
| Piping    |                         | Gas                   | mm     | 12.7 × 1 + 9.52 × 5            |  |  |
|           | Total Piping Length     | (max)                 | m      | 80                             |  |  |
|           | Each Indoor Unit Piping | Length (max)          | m      | 25                             |  |  |
|           | Max. Height             | -                     | m      | 15 (10)* <sup>3</sup>          |  |  |
|           | Chargeless Length       |                       | m      | 30                             |  |  |
| Guarante  | ed Operating Range      | Cooling               | °C     | -10 ~ +46                      |  |  |
| [Outdoor] |                         | Heating               | °C     | -15 ~ +24                      |  |  |

When connecting the MFZ-KJ series indoor unit(s) to this outdoor unit, charge additional refrigerant according to the instructions in the diagram below.

### MXZ-2D33VA

| No. of<br>MFZ-KJ indoor units | Pipe length (L)<br>~20m                                 | Maximum amount<br>of refrigerant |
|-------------------------------|---|----------------------------------|
| 1 unit                        | 100g additional (Total 1250g)                           | 1250g                            |
| 2 units                       | Not available (Only one MFZ-KJ series indoor unit can b | e connected.)                    |

### MX7-2D42VA2 MX7-2D53VA2 MX7-2D53VAH2

| No. of              | Pipe lei                      | Maximum amount        |                |
|---------------------|-------------------------------|-----------------------|----------------|
| MFZ-KJ indoor units | ~20m                          | ~30m                  | of refrigerant |
| 1 unit              | 100g additional (Total 1400g) | 100g+{(L-20)m×20g/m)} | 1600g          |
| 2 units             | 200g additional (Total 1500g) | 200g+{(L-20)m×20g/m)} | 1700g          |

### MXZ-3E54VA

| No. of              | Pipe lei                      | ngth (L)              | Maximum amount |
|---------------------|-------------------------------|-----------------------|----------------|
| MFZ-KJ indoor units | ~40m                          | ~50m                  | of refrigerant |
| 1 unit              | 100g additional (Total 2800g) | 100g+{(L-40)m×20g/m)} | 3000g          |
| 2 units             | 200g additional (Total 2900g) | 200g+{(L-40)m×20g/m)} | 3100g          |
| 3 units             | 300g additional (Total 3000g) | 300g+{(L-40)m×20g/m)} | 3200g          |

### MXZ-3E68VA MXZ-4E72VA

| No. of              | Pipe lei                      | ngth (L)              | Maximum amount |
|---------------------|-------------------------------|-----------------------|----------------|
| MFZ-KJ indoor units | ~40m                          | ~60m                  | of refrigerant |
| 1 unit              | 100g additional (Total 2800g) | 100g+{(L-40)m×20g/m)} | 3200g          |
| 2 units             | 200g additional (Total 2900g) | 200g+{(L-40)m×20g/m)} | 3300g          |
| 3 units             | 300g additional (Total 3000g) | 300g+{(L-40)m×20g/m)} | 3400g          |

# MXZ-HA SERIES

Multi-port outdoor units exclusively for MSZ-HR indoor units.





# Stylish Design with Flat Panel Front

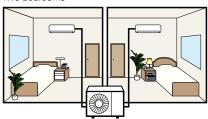
A stylish flat panel design is employed for the front of the indoor unit. The simple look matches room aesthetics.



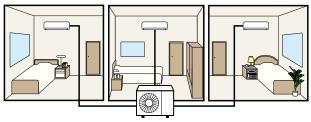
# Easy to create various combinations

Wide range of simple combinations only possible using multi-port outdoor units.

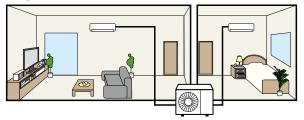
### Two bedrooms



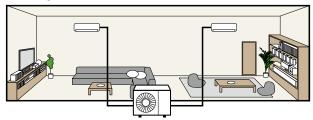




Living room and one bedroom



Wide living room















| Type (Inverter Multi - Split Heat Pump) |  |                       |         | Up to 2 Indo                  | Up to 3 Indoor Units          |                             |  |  |  |
|---|--|-----------------------|---------|-------------------------------|-------------------------------|-----------------------------|--|--|--|
| ndoor Un                                | it                                       |                       |         |                               | Please refer to (*4)          |                             |  |  |  |
| Outdoor (                               | Jnit                                     |                       |         | MXZ-2HA40VF                   | MXZ-2HA50VF                   | MXZ-3HA50VF                 |  |  |  |
| efrigerar                               | nt                                       |                       |         | R32*1                         |                               |                             |  |  |  |
| ower                                    | Source                                   |                       |         |                               | Outdoor power supply          |                             |  |  |  |
| upply                                   | Outdoor (V/Phase/I                       | Hz)                   |         | 220-230-240 / Single / 50     |                               |                             |  |  |  |
| Cooling                                 | Capacity                                 | Rated                 | kW      | 4.0                           | 5.0                           | 5.0                         |  |  |  |
|   | Input*4                                  | Rated                 | kW      | 1.05                          | 1.52                          | 1.26                        |  |  |  |
|   | EER*4                                    | •                     |         | 3.81                          | 3.29                          | 3.97                        |  |  |  |
|   |  | EEL Rank*4            |         | A                             | А                             | A                           |  |  |  |
|   | Design Load                              |                       | kW      | 4.0                           | 5.0                           | 5.0                         |  |  |  |
|   | Annual Electricity                       | Consumption*2         | kWh/a   | 172                           | 225                           | 241                         |  |  |  |
|   | SEER*4.*5                                |                       | .       | 8.12                          | 7.78                          | 7.26                        |  |  |  |
|   |  | Energy Efficiency (   | Class*4 | A++                           | A++                           | A++                         |  |  |  |
| eating                                  | Capacity                                 | Rated                 | kW      | 4.3                           | 6.0                           | 6.0                         |  |  |  |
| Average                                 | Input                                    | Rated                 | kW      | 0.91                          | 1.54                          | 1.30                        |  |  |  |
| eason)                                  | COP*4                                    |                       |         | 4.73                          | 3.90                          | 4.62                        |  |  |  |
|   |  | EEL Rank*4            |         | A                             | A                             | A                           |  |  |  |
|   | Design Load                              |                       | kW      | 3.2                           | 3.2                           | 4.0                         |  |  |  |
|   | Declared at reference design temperature |                       | kW      | 2.4                           | 2.4                           | 3.0                         |  |  |  |
|   | l  | nt temperature        | kW      | 2.9                           | 2.9                           | 3.6                         |  |  |  |
|   | at operation limit temperature           |                       | kW      | 2.1                           | 2.1                           | 2.6                         |  |  |  |
|   | Back Up Heating                          |                       | kW      | 0.8                           | 0.8                           | 1.0                         |  |  |  |
|   | Annual Electricity                       |                       | kWh/a   | 1043                          | 1043                          | 1394                        |  |  |  |
|   | SCOP*4,*5                                |                       |         | 4.30                          | 4.30                          | 4.02                        |  |  |  |
|   | Energy Efficiency (                      |                       | Class*4 | A <sup>+</sup>                | A <sup>+</sup>                | A <sup>+</sup>              |  |  |  |
| eratin                                  | g Current (max)                          | , , ,                 | А       | 12.2                          | 12.2                          | 18.0                        |  |  |  |
|   | Dimensions                               | $H \times W \times D$ | mm      | 550 - 800 (+69) - 285 (+59.5) | 550 - 800 (+69) - 285 (+59.5) | 710 - 840 (+30) - 330 (+66) |  |  |  |
| nit                                     | Weight                                   | 1                     | kg      | 37                            | 37                            | 57                          |  |  |  |
|   | Air Volume                               | Cooling               | m³/min  | 28.4                          | 32.7                          | 31.0                        |  |  |  |
|   |  | Heating               | m³/min  | 33.5                          | 34.7                          | 29.1                        |  |  |  |
|   | Sound Level (SPL)                        | Cooling               | dB(A)   | 44                            | 47                            | 46                          |  |  |  |
|   |  | Heating               | dB(A)   | 50                            | 51                            | 50                          |  |  |  |
|   | Sound Level (PWL)                        | Cooling               | dB(A)   | 59                            | 64                            | 61                          |  |  |  |
|   | Operating Current                        | Cooling               | А       | 4.9                           | 6.8                           | 5.6                         |  |  |  |
|   |  | Heating               | A       | 4.6                           | 6.9                           | 5.8                         |  |  |  |
|   | Breaker Size                             |                       | A       | 15                            | 15                            | 25                          |  |  |  |
| t.                                      | Port Diameter                            | Liquid / Gas          | mm      | 6.35 × 2 / 9.52 × 2           | 6.35 × 2 / 9.52 × 2           | 6.35 × 3 / 9.52 × 3         |  |  |  |
| ping                                    | Total Piping Length (max)                |                       | m       | 30                            | 30                            | 50                          |  |  |  |
|   | Each Indoor Unit Pi                      |                       | m       | 20                            | 20                            | 25                          |  |  |  |
|   | Max. Height                              |                       | m       | 15 (10)*3                     | 15 (10)*³                     | 15 (10)*3                   |  |  |  |
|   | Chargeless Length                        |                       | m       | 30                            | 30                            | 40                          |  |  |  |
| uarantee                                | ed Operating Range                       | Cooling               | °C      | 55                            | -10 ~ +46                     |                             |  |  |  |
| Outdoor]                                |  | Heating               | °C      |                               | -15 ~ +24                     |                             |  |  |  |
|   |  | produing              |         |                               |                               |                             |  |  |  |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R32 is 675 in the IPCC 4th Assessment Report

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 If the outdoor unit is installed higher than the indoor unit, max hight is reduced to 10m.

\*4 EER/COP, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.

MX2-14A40VF MSZ-HR25VF + MSZ-HR25VF

MX2-2HA40VF MSZ-HR25VF + MSZ-HR25VF

MX2-3HA50VF MSZ-HR25VF + MSZ-HR25VF + MSZ-HR25VF

MX2-3HA50VF MSZ-HR25VF + MSZ-HR25VF + MSZ-HR25VF

\*5 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

# MXZ-DM

Multi-port outdoor units exclusively for MSZ-HJ and DM indoor units.





### Stylish Design with Flat Panel Front

A stylish flat panel design is employed for the front of the indoor unit. The simple look matches room aesthetics.



### Easy to create various combinations

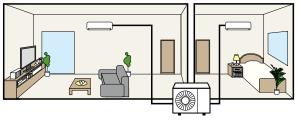
Wide range of simple combinations only possible using multi-port outdoor units.

### Two bedrooms

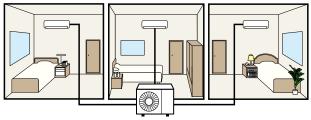




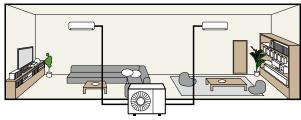
Living room and one bedroom

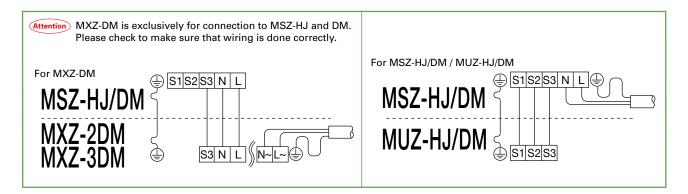


### Three bedrooms



### Wide living room

















| Type (Inv      | erter Multi - Split Hea                          | at Pump)                              |         | Up to 2 Indoor Units          | Up to 3 Indoor Units        |  |  |  |  |
|----------------|--|---------------------------------------|---------|-------------------------------|-----------------------------|--|--|--|--|
|                | Capacity   Rated                                 | , , , , , , , , , , , , , , , , , , , |         |                               | efer to (*4)                |  |  |  |  |
|                |  |                                       |         | MXZ-2DM40VA                   | MXZ-3DM50VA                 |  |  |  |  |
|                |  |                                       |         |                               | 0A*1                        |  |  |  |  |
| Power          | 1  |                                       |         |                               | ower supply                 |  |  |  |  |
| Supply         |  | lz)                                   |         |                               | ngle / 50                   |  |  |  |  |
| Cooling        |  |                                       | kW      | 4.0                           | 5.0                         |  |  |  |  |
|                |  |                                       | kW      | 1.05                          | 1.13                        |  |  |  |  |
|                |  | 1                                     | 7.1.1   | 3.81                          | 4.42                        |  |  |  |  |
|                |  | EEL Rank*4                            |         | A                             | A                           |  |  |  |  |
|                |  |                                       | kW      | 4.0                           | 5.0                         |  |  |  |  |
|                |  | Consumption*2                         | kWh/a   | 226                           | 283                         |  |  |  |  |
|                |  |                                       | ,.      | 6.1                           | 6.1                         |  |  |  |  |
|                | -  | Energy Efficiency (                   | Class*4 | A++                           | A++                         |  |  |  |  |
| Heating        |  |                                       | kW      | 4.3                           | 6.0                         |  |  |  |  |
| Average        |  |                                       | kW      | 1.16                          | 1.31                        |  |  |  |  |
| Season)        |  |                                       |         | 3.71                          | 4.58                        |  |  |  |  |
|                |  | EEL Rank*4                            |         | A                             | A                           |  |  |  |  |
|                |  |                                       | kW      | 3.2                           | 4.0                         |  |  |  |  |
|                |  | ce design temperature                 | kW      | 2.73                          | 3.34                        |  |  |  |  |
|                | Capacity at bivalen                              | t temperature                         | kW      | 3.01                          | 3.73                        |  |  |  |  |
|                |  |                                       | kW      | 2.27                          | 2.70                        |  |  |  |  |
|                | Back Up Heating (                                | Capacity                              | kW      | 0.47                          | 0.66                        |  |  |  |  |
|                |  |                                       | kWh/a   | 1105                          | 1455                        |  |  |  |  |
|                | SCOP*4,*5  |                                       |         | 4.0                           | 3.8                         |  |  |  |  |
|                |  | Energy Efficiency C                   | Class*4 | A <sup>+</sup>                | A                           |  |  |  |  |
| )<br>Deratin   | g Current (max)                                  |                                       | Α       | 12.2                          | 18.0                        |  |  |  |  |
| Outdoor        | Dimensions                                       | $H \times W \times D$                 | mm      | 550 - 800 (+69) - 285 (+59.5) | 710 - 840 (+30) - 330 (+66) |  |  |  |  |
| Outdoor Unit V | Weight   | •                                     | kg      | 32                            | 57                          |  |  |  |  |
|                | Air Volume                                       | Cooling                               | m³/min  | 29.2                          | 37.5                        |  |  |  |  |
|                |  | Heating                               | m³/min  | 31.9                          | 39.6                        |  |  |  |  |
|                | Sound Level (SPL)                                | Cooling                               | dB(A)   | 48                            | 50                          |  |  |  |  |
|                |  | Heating                               | dB(A)   | 52                            | 53                          |  |  |  |  |
|                | Sound Level (PWL)                                | Cooling                               | dB(A)   | 63                            | 64                          |  |  |  |  |
|                | Operating Current                                | Cooling                               | Α       | 5.1                           | 5.0                         |  |  |  |  |
|                |  | Heating                               | Α       | 5.6                           | 5.8                         |  |  |  |  |
|                | Breaker Size                                     |                                       | Α       | 15                            | 25                          |  |  |  |  |
| Ext.           | Port Diameter                                    | Liquid / Gas                          | mm      | 6.35 × 2 / 9.52 × 2           | 6.35 × 3 / 9.52 × 3         |  |  |  |  |
| Piping         | Total Piping Length                              | (max)                                 | m       | 30                            | 50                          |  |  |  |  |
| -              | Each Indoor Unit Pin                             | ing Length (max)                      | m       | 20                            | 25                          |  |  |  |  |
|                |  |                                       | _       |                               | 15 (10)*3                   |  |  |  |  |
|                | Max. Height                                      |                                       | m       | 15 (10)* <sup>3</sup>         | 15 (10)**                   |  |  |  |  |
|                |  |                                       | m<br>m  | 15 (10)*3<br>20               | 15 (10)*°<br>40             |  |  |  |  |
|                | Max. Height Chargeless Length ed Operating Range | Cooling                               |         | 20                            |                             |  |  |  |  |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 If the outdoor unit is installed higher than the indoor unit, max hight is reduced to 10m.

\*4 EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.

MXZ-2DM40VA MSZ-DM25VA + MSZ-DM25VA + MSZ-DM25VA

MXZ-3DM50VA MSZ-DM25VA + MSZ-DM25VA + MSZ-DM25VA

\*5 SEER and SCOP are based on 2009/125/EC.Energy-related Products Directive and Regulation(EU) No206/2012.

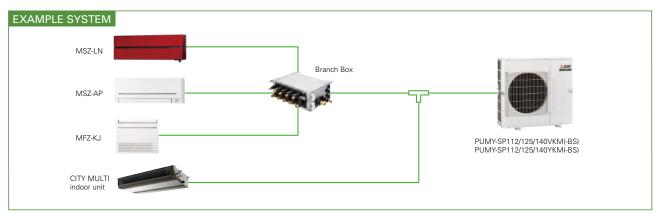
# PUMY-SP SERIES

Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.



R410A

PUMY-SP112/125/140VKM(-BS) PUMY-SP112/125/140YKM(-BS)



### Light weight and compact size

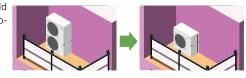
Compact design fits into narrow outdoor unit space of condominiums and offices. Light weight design facilitates easy installation and transportation.



### Unobstructive, compact, and easy to hide from view

Conventional 2-fan type outdoor units may spoil the view. Due to its compact size, the new outdoor fan unit can be installed in loca-

tions that would have been inappropriate.



### Easy installation and transportation

The reduced weight and height allow for better transportation performance. Carrying and installing become easier.

could not before.



### Industry's top energy efficiency\*

Even with its compact size and light weight, it has a high EER and COP. Costs are reduced with the industry's best energy saving abilities.

\* As of sep.2017.Among VRF outdoor unit of 1fan. (An incompany investigation)



### Super silent mode\*

Noise level can be reduced up to 10dB(A). This allows you to operate the unit even in the night in a residential zone.

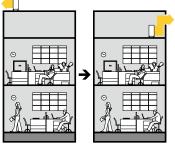
- \*Capacity reduction differs by mode setting.
- \*PAC-SC36NA-E is required to activate Super Silent mode

### Rear piping is available

### Freedom with layout due to its piping pullout locations in four directions

The in-door unit allows piping from any four directions; front, back, bottom, or right. This enables easier horizontal connection for collective layout.

The out-door unit with an expanded piping layout flexibility greatly improves piping workability.



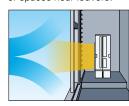
The installation location is flexible

thanks to its 30Pa static pressure.

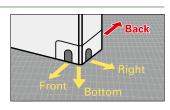
You can install it in locations that you

An external static pressure of 30Pa

An external static pressure of 30Pa allows outdoor unit to be installed on balconies in high-rise building or spaces near louvers.



\*Noise level will increase when using this function.







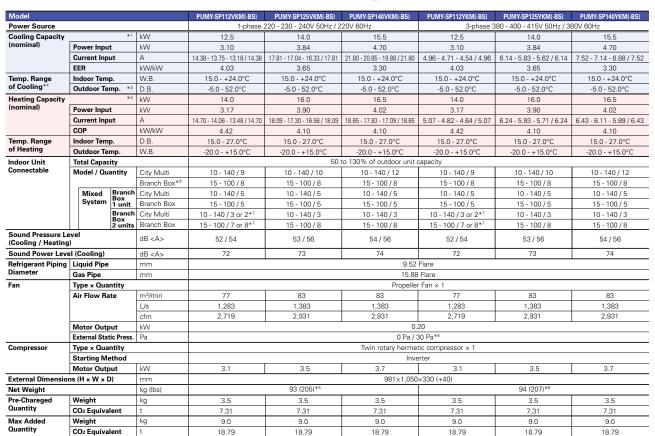












### \*1.\*2 Nominal conditions

|         | Indoor            | Outdoor         | Piping Length         | Level Difference | External Static Press. (Outdoor Unit) |
|---------|-------------------|-----------------|-----------------------|------------------|---------------------------------------|
| Cooling | 27°C DB / 19°C WB | 35°C            | 7.5m (24 - 9 / 16ft.) | 0m (0ft)         | 0 Pa                                  |
| Heating | 20°C DB           | 7°C DB / 6°C WB | 7.5m (24 - 9 / 16ft.) | 0m (0ft)         | 0 Pa                                  |

<sup>\*3 10</sup> to 52°C; incase of connecting PKFY-P15/P20/P25VBM, PFFY-P20/P25/P32VKM, PFFY-P20/P25/P32VLE(R)M indoor unit and M series indoor unit with connection kit and M series, S series, and P series type indoor unit with branch box.

\*4 Up to 11 units when connecting via 2 branch boxes.

\*5 94 (207), for PUMY-SP112/125/140VKM-BS

\*6 95 (209), for PUMY-SP112/125/140VKM-BS

\*7 When connecting 7 indoor units via branch box, connectable City Multi indoor units are 3; connecting 8 indoor units via branch box, connectable City Multi indoor units are 2.

<sup>\*9</sup> At least 2 indoor units must be connected when using branch box

| Туре            |                  |                       |    | Brand  | h Box     |  |  |  |  |
|-----------------|------------------|-----------------------|----|--|-----------|--|--|--|--|
| Model Name      | •                |                       |    | PAC-MK54BC PAC-MK3   |           |  |  |  |  |
| Connectable     | Number of Indo   | or Units              |    | Maximum 5  | Maximum 3 |  |  |  |  |
| Power Supp      | ly (from outdoor | unit)                 |    | ~ / N, 220 / 230 / 240 V, 50 Hz, ~ / N, 220 / 230 V, 60 Hz |           |  |  |  |  |
| Input           |                  |                       | kW | 0.003  |           |  |  |  |  |
| Running Current |                  |                       | А  | 0.05 (N  | Лах. 6)   |  |  |  |  |
| Dimensions      |                  | $H \times W \times D$ | mm | 170 × 45   | 50 × 280  |  |  |  |  |
| Weight          |                  |                       | kg | 7.4  | 6.7       |  |  |  |  |
| Piping          | Branch           | Liquid                | mm | ø6.35 × 5  | ø6.35 × 3 |  |  |  |  |
| (Flare)         | [Indoor Side]    | Gas                   | mm | ø9.52 × 4, ø12.7 × 1                                       | ø9.52 × 3 |  |  |  |  |
|                 | Main             | Liquid                | mm | ø9   | .52       |  |  |  |  |
|                 | [Outdoor Side]   | Gas                   | mm | ø15  | 5.88      |  |  |  |  |

<sup>\*</sup> The piping connection size differs according to the type and capacity of outdoor/indoor units.

Match the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of branch box does not match the piping connection size of outdoor/indoor unit, use optional different-diameter (deformed) joints to the branch box side. (Connect deformed joint directly to the branch box side.)

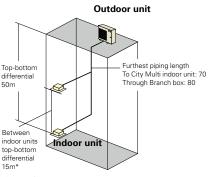
### <Branch box compatible table>

| Outdoor unit         | Branch box                      | PAC-MK31/<br>51BC(B) | PAC-MK32/<br>52BC(B) | PAC-MK33/<br>53BC(B) | PAC-MK34/<br>54BC |
|----------------------|---------------------------------|----------------------|----------------------|----------------------|-------------------|
| Outdoor unit         | PUMY-SP112/125/140V/ YKM(-BS)   | ✓                    | N/A                  | N/A                  | N/A               |
| 1fan                 | PUMY-SP112/125/140V/ YKMR1(-BS) | N/A                  | N/A                  | ✓                    | ✓                 |
|                      | PUMY-SP112/125/140V/ YKM(-BS)R2 | N/A                  | N/A                  | ✓                    | ✓                 |
| Outdoor unit<br>2fan | PUMY-P112/125/140V/YKM4(-BS)    | √*                   | ✓                    | ✓                    | ✓                 |
|                      | PUMY-P112/125/140V/YKM4R1(-BS)  | √*                   | ✓                    | ✓                    | ✓                 |
|                      | PUMY-P112/125/140VKM5(-BS)      | √*                   | ✓                    | ✓                    | ✓                 |
|                      | PUMY-P112/125/140V/YKM4(-BS)R2  | √*                   | ✓                    | ✓                    | ✓                 |
| Outdoor unit         | PUMY-P200YKM2(-BS)              | ✓                    | ✓                    | ✓                    | ✓                 |
| 8HP                  | PUMY-P200YKM2R1(-BS)            | ✓                    | ✓                    | ✓                    | ✓                 |
|                      | PUMY-P200YKM2(-BS)R2            | ✓                    | ✓                    | ✓                    | ✓                 |

<sup>\*</sup>ecodan is NG

### [SP112-140V/YKM(-BS)]

| • |                        |                                      |                |
|---|------------------------|--------------------------------------|----------------|
| Refrigerant Piping Lengths              | Maximum meters         | Vertical differentials between units | Maximum meters |
| Total length                            | 120                    | Indoor/outdoor (outdoor higher)      | . 50           |
| Maximum allowable length                | To City Multi indoor   | Indoor/outdoor (outdoor lower)       | . 30           |
|   | unit: 70               | Indoor/indoor                        | · 15*          |
| 1                                       | Through Branch box: 80 |                                      |                |



\*In case of branch box connection: 12m

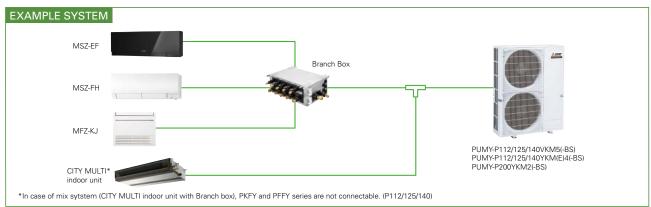
<sup>\*8 0</sup> Pa as initial setting

# PUMY-P SERIES

Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.



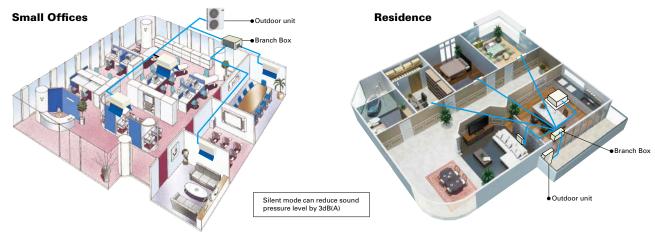
PUMY-P112/125/140VKM5(-BS) PUMY-P112/125/140YKM(E)4(-BS) PUMY-P200YKM2(-BS)



### The two-pipe zoned system designed for Heat Pump Operation

PUMY series make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy

With a wide range of indoor unit line-up in connection with a flexible piping system, PUMY series can be configured for all applications. Up to 12 indoor units can be connected with up to 130% connected capacity to maximize engineer's design options. This feature allows easy air conditioning in each area with convenient individual controllers.



| ·            |                           | ·                                    |                      | Maxim           | um Meters                 | ·                         |  |  |
|--------------|---------------------------|--------------------------------------|----------------------|-----------------|---------------------------|---------------------------|--|--|
|              |                           |                                      | Only City Multi*1    | Only Branch Box | Mixed System (City Multi* | Indoor Unit + Branch Box) |  |  |
|              |                           |                                      | Indoor Unit          | Connection      | City Multi*1 Indoor Unit  | Via Branch Box            |  |  |
| P112/125/140 | Refrigerant Piping Length | Total Length                         | 300                  | 150             | 240 (2 Branch boxes       | / 300 (1 Branch box)      |  |  |
|              |                           | Maximum Allowable Length             | 150 (175 equivalent) | 80              | 85 (95 equivalent)        | 80                        |  |  |
|              |                           | Farthest Indoor<br>From First Branch | 30                   | 55              | 30                        | 55                        |  |  |
|              | Vertical Differentials    | Indoor/Outdoor (Outdoor higher)      | 50                   | 50              | 5                         | 0                         |  |  |
|              | Between Units             | Indoor/Outdoor(Outdoor Lower)        | 40*2                 | 40              | 4                         | 0                         |  |  |
|              |                           | Indoor/Indoor                        | 15*3                 | 15*3            | 15*3                      |                           |  |  |
| P200         | Refrigerant Piping Length | Total Length                         | 150                  | 150             | 19                        | 50                        |  |  |
|              |                           | Maximum Allowable Length             | 80 (90 equivalent)   | 80              | 80 (90 equivalent)        | 80                        |  |  |
| -            |                           | Farthest Indoor<br>From First Branch | 30                   | 55              | 30                        | 55                        |  |  |
|              | Vertical Differentials    | Indoor/Outdoor (Outdoor higher)      | 50                   | 50              | 50                        |                           |  |  |
|              | Between Units             | Indoor/Outdoor (Outdoor Lower)       | 40                   | 40              | 4                         | 40                        |  |  |
|              |                           | Indoor/Indoor                        | 15*3                 | 15*3            | 15                        | *3                        |  |  |

### 30Pa external static pressure\* Option (requires PAC-SJ71FM-E)

An external static pressure of 30Pa enables the outdoor unit to be installed on balconies in high-rise building or spaces near louvers.

- \*PUMY-P112/125/140VKM5(-BS), PUMY-P112/125/140YKM(E)4(-BS) only.
- \* Noise level will increase when using this function



<sup>\*1</sup> Include system with connection kit \*2 In case of including PKPY or PFFY, height between units is 30m. \*3 In case of branch box connection: 12m















| Model   |                  |              | PUMY-P112VKM5(-BS)    | PUMY-P125VKM5(-BS)    | PUMY-P140VKM5(-BS)    | PUMY-P112YKM4(-BS)  | PUMY-P125YKM4(-BS) | PUMY-P140YKM4(-BS) | PUMY-P200YKM2(-BS)                      |
|---|------------------|--------------|-----------------------|-----------------------|-----------------------|---------------------|--------------------|--------------------|---|
| Power Source  |                  |              |                       | ase 220 - 230 - 240V  |                       |                     | 3-phase 380 - 400  |                    | , |
| Cooling Capacity  | *1               | kW           | 12.5                  | 14.0                  | 15.5                  | 12.5                | 14.0               | 15.5               | 22.4                                    |
| (nominal)   | Power Input      | kW           | 2.79                  | 3.46                  | 4.52                  | 2.79                | 3.46               | 4.52               | 6.05                                    |
|   | Current Input    | А            | 12.87 - 12.32 - 11.80 | 15.97 - 15.27 - 14.64 | 20.86 - 19.95 - 19.12 | 4.99 - 4.74 - 4.57  | 5.84 - 5.55 - 5.35 | 7.23 - 6.87 - 6.62 | 9.88 - 9.39 - 9.05                      |
|   | EER              | kW/kW        | 4.48                  | 4.05                  | 3.43                  | 4.48                | 4.05               | 3.43               | 3.70                                    |
| Cooling Capacity (nominal)  P C E Temp. Range of Cooling  Heating Capacity (nominal)  P C C C C Temp. Range of Heating Indoor Unit Connectable  Sound Pressure Leve (measured in anechoole Refrigerant Piping Diameter  G | Indoor Temp.     | W.B.         | 15.0 - 24.0°C         | 15.0 - 24.0°C         | 15.0 - 24.0°C         | 15.0 - 24.0°C       | 15.0 - 24.0°C      | 15.0 - 24.0°C      | 15.0 - 24.0°C                           |
|   | Outdoor Temp.*3  | D.B.         | -5.0 - 52.0°C         | -5.0 - 52.0°C         | -5.0 - 52.0°C         | -5.0 - 52.0°C       | -5.0 - 52.0°C      | -5.0 - 52.0°C      | -5.0 - 52.0°C                           |
| Heating Capacity  | *2               | kW           | 14.0                  | 16.0                  | 18.0                  | 14.0                | 16.0               | 18.0               | 25.0                                    |
| (nominal)   | Power Input      | kW           | 3.04                  | 3.74                  | 4.47                  | 3.04                | 3.74               | 4.47               | 5.84                                    |
|   | Current Input A  |              | 14.03 - 13.42 - 12.86 | 17.26 - 16.51 - 15.82 | 20.63 - 19.73 - 18.91 | 5.43 - 5.16 - 4.98  | 6.31 - 6.00 - 5.78 | 7.15 - 6.79 - 6.55 | 9.54 - 9.06 - 8.74                      |
|   | COP              | kW/kW        | 4.61                  | 4.28                  | 4.03                  | 4.61                | 4.28               | 4.03               | 4.28                                    |
| Temp. Range   | Indoor Temp.     | D.B.         | 15.0 - 27.0°C         | 15.0 - 27.0°C         | 15.0 - 27.0°C         | 15.0 - 27.0°C       | 15.0 - 27.0°C      | 15.0 - 27.0°C      | 15.0 - 27.0°C                           |
| of Heating  | Outdoor Temp.    | W.B.         | -20.0 - 15.0°C        | -20.0 - 15.0°C        | -20.0 - 15.0°C        | -20.0 - 15.0°C      | -20.0 - 15.0°C     | -20.0 - 15.0°C     | -20.0 - 15.0°C                          |
| Indoor Unit   | Total Capacity   | •            |                       |                       |                       |                     |                    |                    |   |
| Connectable   | Model / Quantity | City Multi   | 10 - 140 / 9          | 10 - 140 / 10         | 10 - 140 / 12         | 10 - 140 / 9        | 10 - 140 / 10      | 10 - 140 / 12      | 10 - 200 / 12                           |
|   |                  | Branch Box*5 | 15 - 100 / 8          | 15 - 100 / 8          | 15 - 100 / 8          | 15 - 100 / 8        | 15 - 100 / 8       | 15 - 100 / 8       | 15 - 100 / 8                            |
|   | Mixed Branch     | City Multi   | 10 - 140 / 5          | 10 - 140 / 5          | 10 - 140 / 5          | 10 - 140 / 5        | 10 - 140 / 5       | 10 - 140 / 5       | 10 - 200 / 5                            |
|   | System 1 unit    | Branch Box   | 15 - 100 / 5          | 15 - 100 / 5          | 15 - 100 / 5          | 15 - 100 / 5        | 15 - 100 / 5       | 15 - 100 / 5       | 15 - 100 / 5                            |
|   | Branch<br>Box    | City Multi   | 10 - 140 / 3 or 2*4   | 10 - 140 / 3          | 10 - 140 / 3          | 10 - 140 / 3 or 2*4 | 10 - 140 / 3       | 10 - 140 / 3       | 10 - 200 / 3                            |
|   | 2 units          | Branch Box   | 15 - 100 / 7 or 8*4   | 15 - 100 / 8          | 15 - 100 / 8          | 15 - 100 / 7 or 8*4 | 15 - 100 / 8       | 15 - 100 / 8       | 15 - 100 / 8                            |
|   |                  | dB <a></a>   | 49 / 51               | 50 / 52               | 51 / 53               | 49 / 51             | 50 / 52            | 51 / 53            | 56 / 61                                 |
|   | Liquid Pipe      | mm           |                       | •                     | 9.52                  | Flare               | •                  |                    | 9.52*6 Flare                            |
| Diameter  | Gas Pipe         | mm           |                       |                       | 15.88                 | Flare               |                    |                    | 19.1 Flare                              |
| Fan   | Type × Quantity  | •            |                       |                       | Propeller             | Fan × 2             |                    |                    |   |
|   | Air Flow Rate    | m³/min       |                       |                       | 11                    | 10                  |                    |                    | 139                                     |
|   |                  | L/s          |                       |                       | 1,8                   | 183                 |                    |                    | 2,316                                   |
|   |                  | cfm          |                       |                       | 3,8                   | 184                 |                    |                    | 4,908                                   |
|   | Motor Output     | kW           |                       |                       | 0.074 +               | + 0.074             |                    |                    | 0.20 + 0.20                             |
| Compressor  | Type × Quantity  |              |                       |                       | Scroll hermetic       | compressor x 1      |                    |                    |   |
|   | Starting Method  |              |                       |                       | Inve                  | erter               |                    |                    |   |
|   | Motor Output     | kW           | 2.9                   | 3.5                   | 3.9                   | 2.9                 | 3.5                | 3.9                | 5.3                                     |
| External Dimension  | ns (H × W × D)   | mm           |                       |                       | 1,338×1,050           | 0×330 (+40)         |                    |                    |   |
| Weight  |                  | kg           |                       | 123                   |                       |                     | 125                |                    | 141                                     |

\*1,\*2 Nominal conditions

|         | Indoor            | Outdoor         | Piping Length | Level Difference |
|---------|-------------------|-----------------|---------------|------------------|
| Cooling | 27°C DB / 19°C WB | 35°C            | 7.5m          | 0m               |
| Heating | 20°C DB           | 7°C DB / 6°C WB | 7.5m          | 0m               |

\*3 10 to 52°C D.B.: When connecting PKFY-P15/20/25VBM, PFFY-P20/25/32VKM and PFFY-P20/25/32VLE(R)M, PEFY-P-VMA3, M, S and P series indoor unit.

\*4 When connecting 7 indoor units via branch box, connectable City Multi indoor units are 3; connecting 8 indoor units via branch box, connectable indoor units are 2.

\*5 At least 2 indoor units must be connected when using branch box.

\*6 Liquid pipe diameter: 12.7mm when piping length is more than 60m.

| Model   |                   |              | PUMY-P112YKME4(-BS)                 | PUMY-P125YKME4(-BS)            | PUMY-P140YKME4(-BS) |  |  |  |  |  |  |
|---|-------------------|--------------|-------------------------------------|--------------------------------|---------------------|--|--|--|--|--|--|
| Description   Power Input   Power Input |                   |              |                                     | 3-phase 380 - 400 - 415V 50Hz  |                     |  |  |  |  |  |  |
| Cooling Capacity  | *1                | kW           | 12.5                                | 14.0                           | 15.5                |  |  |  |  |  |  |
| nominal)  | Power Input       | kW           | 2.79                                | 3.46                           | 4.52                |  |  |  |  |  |  |
|   | Current Input     | А            | 4.99 / 4.74 / 4.57                  | 5.84 / 5.55 / 5.35             | 7.23 / 6.87 / 6.62  |  |  |  |  |  |  |
|   | EER               | kW/kW        | 4.48                                | 4.05                           | 3.43                |  |  |  |  |  |  |
| emp. Range  | Indoor Temp.      | W.B.         |                                     | 15 to 24°C                     |                     |  |  |  |  |  |  |
| Cooling   | Outdoor Temp.*3   | D.B.         |                                     | −5 to 52°C                     |                     |  |  |  |  |  |  |
|   | *2                | kW           | 14.0                                | 16.0                           | 18.0                |  |  |  |  |  |  |
| ominal)   | Power Input       | kW           | 3.04                                | 3.74                           | 4.47                |  |  |  |  |  |  |
|   | Current Input     | A            | 5.43 / 5.16 / 4.98                  | 6.31 / 6.00 / 5.78             | 7.15 / 6.79 / 6.55  |  |  |  |  |  |  |
|   | СОР               | kW/kW        | 4.61                                | 4.28                           | 4.03                |  |  |  |  |  |  |
|   | Indoor Temp.      | D.B.         |                                     |                                |                     |  |  |  |  |  |  |
| Heating   | Outdoor Temp.     | W.B.         | −20 to 15°C                         |                                |                     |  |  |  |  |  |  |
| door Unit   | Total Capacity    |              | 50 to 130% of outdoor unit capacity |                                |                     |  |  |  |  |  |  |
| nnectable   | Model / Quantity  | City Multi   | 10 - 140 / 9                        | 10 - 140 / 10                  | 10 - 140 / 12       |  |  |  |  |  |  |
|   |                   | Branch Box*5 | 15 - 100 / 8                        | 15 - 100 / 8                   | 15 - 100 / 8        |  |  |  |  |  |  |
|   | Mixed Branch      | City Multi   | 10 - 140 / 5                        | 10 - 140 / 5                   | 10 - 140 / 5        |  |  |  |  |  |  |
|   | System Sox 1 unit | Branch Box   | 15 - 100 / 5                        | 15 - 100 / 5                   | 15 - 100 / 5        |  |  |  |  |  |  |
|   | Branch<br>Box     | City Multi   | 10 - 140 / 3 or 2*4                 | 10 - 140 / 3                   | 10 - 140 / 3        |  |  |  |  |  |  |
|   | 2 units           | Branch Box   | 15 - 100 / 7 or 8*4                 | 15 - 100 / 8                   | 15 - 100 / 8        |  |  |  |  |  |  |
| ound Pressure I<br>leasured in and  |                   | dB <a></a>   | 49 / 51                             | 50 / 52                        | 51 / 53             |  |  |  |  |  |  |
| frigerant Piping  | Liquid Pipe       | mm           |                                     | 9.52 Flare                     |                     |  |  |  |  |  |  |
| ameter  | Gas Pipe          | mm           |                                     | 15.88 Flare                    |                     |  |  |  |  |  |  |
| n   | Type × Quantity   |              | Propeller Fan × 2                   |                                |                     |  |  |  |  |  |  |
|   | Air Flow Rate     | m³/min       |                                     | 110                            |                     |  |  |  |  |  |  |
|   |                   | L/s          |                                     | 1,833                          |                     |  |  |  |  |  |  |
|   |                   | cfm          |                                     | 3,884                          |                     |  |  |  |  |  |  |
|   | Motor Output      | kW           |                                     | 0.074 + 0.074                  |                     |  |  |  |  |  |  |
| mpressor  | Type × Quantity   |              |                                     | Scroll hermetic compressor × 1 |                     |  |  |  |  |  |  |
|   | Starting Method   |              |                                     | Inverter                       |                     |  |  |  |  |  |  |
|   | Motor Output      | kW           | 2.9                                 | 3.5                            | 3.9                 |  |  |  |  |  |  |
| kternal Dimensi   | ons (H × W × D)   | mm           |                                     | 1,338×1,050×330 (+40)          |                     |  |  |  |  |  |  |
| /eight  |                   | kg           |                                     | 136                            |                     |  |  |  |  |  |  |

\*1,\*2 Nominal conditions

|         | Indoor            | Outdoor         | Piping Length | Level Difference |
|---------|-------------------|-----------------|---------------|------------------|
| Cooling | 27°C DB / 19°C WB | 35°C            | 7.5m          | 0m               |
| Heating | 20°C DB           | 7°C DB / 6°C WB | 7.5m          | 0m               |

\*3 10 to 52°C D.B.: When connecting PKFY-P15/20/25VBM, PFFY-P20/25/32VKM and PFFY-P20/25/32VLE(R)M, PEFY-P-VMA3, M, S and P series indoor unit.
\*4 When connecting indoor units via branch box, connectable City Multi indoor units are 3; connecting 8 indoor units via branch box, connectable indoor units are 2.
\*5 At least 2 indoor units must be connected when using branch box.

| Туре                             |                 |                       |    | Branc  | h Box      |  |  |  |  |
|----------------------------------|-----------------|-----------------------|----|--|------------|--|--|--|--|
| Model Name                       | )               |                       |    | PAC-MK54BC   | PAC-MK34BC |  |  |  |  |
| Connectable                      | Number of Indoo | or Units              |    | Maximum 5  | Maximum 3  |  |  |  |  |
| Power Supply (from outdoor unit) |                 |                       |    | ~ / N, 220 / 230 / 240 V, 50 Hz, ~ / N, 220 / 230 V, 60 Hz |            |  |  |  |  |
| Input                            |                 |                       | kW | 0.003  |            |  |  |  |  |
| Running Current A                |                 |                       | А  | 0.05 (Max. 6)  |            |  |  |  |  |
| Dimensions                       |                 | $H \times W \times D$ | mm | 170 × 45   | 50 × 280   |  |  |  |  |
| Weight                           |                 |                       | kg | 7.4  | 6.7        |  |  |  |  |
| Piping                           | Branch          | Liquid                | mm | ø6.35 × 5  | ø6.35 × 3  |  |  |  |  |
| (Flare)                          | [Indoor Side]   | Gas                   | mm | ø9.52 × 4, ø12.7 × 1                                       | ø9.52 × 3  |  |  |  |  |
|                                  | Main            | Liquid                | mm | ø9.  | 52         |  |  |  |  |
|                                  | [Outdoor Side]  | Gas                   | mm | ø15  | i.88       |  |  |  |  |

<sup>\*</sup> The piping connection size differs according to the type and capacity of outdoor/indoor units.

Match the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of branch box does not match the piping connection size of outdoor/indoor unit. us optional different-diameter (deformed) joints to the branch box side. (Connect deformed joint directly to the branch box side.)

### Indoor Unit Compatibility Table

Possible combinations of outdoor units and indoor units are shown below.

|          |                       |                           | MXZ-*3  |         |            |          | MXZ-*3      |             |             |         |        |          |   |         | MXZ-*3  |     |
|----------|-----------------------|---------------------------|---------|---------|------------|----------|-------------|-------------|-------------|---------|--------|----------|---|---------|---------|-----|
| oor Unit |                       |                           | 2F33VF3 | 2F42VF3 | 2F53VF(H)3 | 2F53VFHZ | 3F54VF3     | 3F68VF3     | 4F72VF3     | 4F80VF3 | 4F83VF | 4F83VFHZ |   | 6F122VF | 2HA50VF | 3HA |
| series   | Wall-                 | MSZ-LN18VG(W)(V)(R)(B)    |         |         |            |          |             | •           |             |         |        |          |   |         |         |     |
|          | Mounted               | MSZ-LN25VG(W)(V)(R)(B)    |         |         |            |          | •           | •           |             | •       |        |          |   |         |         |     |
|          |                       | MSZ-LN35VG(W)(V)(R)(B)    |         |         |            |          |             | •           |             |         |        |          |   |         |         |     |
|          |                       | MSZ-LN50VG(W)(V)(R)(B)    |         |         |            |          |             |             |             |         |        |          |   |         |         |     |
|          |                       | MSZ-LN18VG2(W)(V)(R)(B)   |         |         |            |          |             |             |             |         |        |          |   |         |         |     |
|          |                       | MSZ-LN25VG2(W)(V)(R)(B)   |         | •       |            | •        |             | •           |             |         |        | •        |   | •       |         |     |
|          |                       | MSZ-LN35VG2(W)(V)(R)(B)   |         |         | •          |          |             | •           |             |         |        | •        | • | •       |         |     |
|          |                       | MSZ-LN50VG2(W)(V)(R)(B)   |         |         |            |          | •           | •           | •           | •       | •      | •        | • | •       |         |     |
|          |                       | MSZ-FT25VG                |         |         |            |          |             |             |             |         |        |          |   |         |         |     |
|          |                       | MSZ-FT35VG                |         |         |            |          |             |             |             |         |        |          |   |         |         |     |
|          |                       | MSZ-FT50VG                |         |         |            |          |             |             |             |         |        |          |   |         |         |     |
|          |                       | MSZ-AP15VG                | •       | •       | •          | •        | •           | •           | •           | •       | •      | •        | • | •       |         |     |
|          |                       | MSZ-AP20VG                |         |         |            | •        |             |             |             |         |        |          |   |         |         |     |
|          |                       | MSZ-AP25VG(K)             | •       | •       | •          | •        | •           | •           | •           | •       |        | •        | • | •       |         |     |
|          |                       | MSZ-AP35VG(K)             |         | •       |            | •        | •           |             | •           |         | •      |          | • | •       |         |     |
|          |                       | MSZ-AP42VG(K)             |         |         | •          | •        | •           | •           | •           | •       | •      | •        | • | •       |         |     |
|          |                       | MSZ-AP50VG(K)             |         |         |            |          | •           |             |             |         | •      |          |   |         |         |     |
|          |                       | MSZ-AP60VG(K)             |         |         | -          |          |             | •           | •           | •       | •      | •        | • | •       |         |     |
|          |                       |                           |         |         |            |          |             | -           | -           | -       |        |          | • |         |         |     |
|          |                       | MSZ-AP71VG(K)             |         |         | •          | -        |             |             | •           | -       |        |          |   | •       |         |     |
|          |                       | MSZ-EF18VG(K)(W)(B)(S)    | •       | •       |            | •        | •           | •           |             | •       | •      | •        |   |         |         |     |
|          |                       | MSZ-EF22VG(K)(W)(B)(S)    | •       | •       | •          | •        | •           | •           | •           |         |        | •        | • | •       |         |     |
|          |                       | MSZ-EF25VG(K)(W)(B)(S)    | •       | •       | •          | •        | •           | •           | •           | •       | •      | •        | • | •       |         |     |
|          |                       | MSZ-EF35VG(K)(W)(B)(S)    |         |         | •          | •        |             | •           | •           | •       |        | •        | • | •       |         |     |
|          |                       | MSZ-EF42VG(K)(W)(B)(S)    |         |         | •          | •        | •           | •           | •           | •       | •      | •        | • | •       |         |     |
|          |                       | MSZ-EF50VG(K)(W)(B)(S)    |         |         |            | •        |             | •           |             |         |        | •        |   | •       |         |     |
|          |                       | MSZ-BT20VG(K)             | •       | •       | •          | •        | •           | •           | •           | •       |        | •        | • | •       |         |     |
|          |                       | MSZ-BT25VG(K)             |         | •       |            | •        |             | •           |             |         |        | •        |   |         |         |     |
|          |                       | MSZ-BT35VG(K)             |         | •       |            | •        |             | •           |             |         |        | •        |   | •       |         |     |
|          |                       | MSZ-BT50VG(K)             |         |         |            |          |             |             |             |         |        |          |   |         |         |     |
|          |                       | MSZ-HR25VF                |         |         |            |          |             |             |             |         |        |          |   |         |         |     |
|          |                       | MSZ-HR35VF                |         |         |            |          |             |             |             |         |        |          |   |         |         |     |
|          |                       | MSZ-HR42VF                |         |         |            |          |             |             |             |         |        |          |   |         | •       |     |
|          |                       | MSZ-HR50VF                |         |         |            |          |             |             |             |         |        |          |   |         |         |     |
|          |                       | MSZ-HR60VF                |         |         |            |          |             |             |             |         |        |          |   |         |         |     |
|          |                       | MSZ-HR71VF                |         |         |            |          |             |             |             |         |        |          |   |         |         |     |
|          | Floor-                | MFZ-KT25VG                | •       | •       | •          | •        | •           | •           | •           | •       | •      | •        | • | •       |         |     |
|          | Standing              | MFZ-KT35VG                |         | •       |            |          |             |             |             |         | •      | •        |   | •       |         |     |
|          |                       | MFZ-KT50VG                |         |         |            |          | •           | •           | •           | •       | •      | •        | • | •       |         |     |
|          | 1-way                 | MLZ-KP25VF                | •       |         |            | •        |             |             |             |         |        |          |   |         |         |     |
|          | Cassette              | MLZ-KP35VF                |         | •       | •          | •        | •           | •           | •           | •       | •      | •        | • | •       |         |     |
|          |                       | MLZ-KP50VF                |         |         |            |          | •           |             | •           |         | •      |          | • | •       |         |     |
| eries    | 2×2                   | SLZ-M15FA                 | •       | •       | •          | •        | •           |             |             | •       | •      | •        | • | •       |         |     |
| en les   | Cassette              |                           |         |         | _          | _        |             | _           | _           |         | •      |          |   | •       |         |     |
|          |                       | SLZ-M25FA                 |         | •       | •          | •        | •           | •           | •           |         |        |          | _ |         |         |     |
|          |                       | SLZ-M35FA                 |         | •       | •          | •        | •           | •           | •           | •       | •      | •        | • | •       |         |     |
|          | Coilie -              | SLZ-M50FA                 |         |         | -          |          | •           | •           | •           | •       |        | •        | • | •       |         |     |
|          | Ceiling-<br>Concealed | SEZ-M25DA*2               | •       | •       | •          | •        |             | •           | •           | •       |        | •        | • | •       |         |     |
|          | 20000100              | SEZ-M25DAL*2              | •       | •       | •          | •        | •           | •           | •           |         |        | •        | • | •       |         |     |
|          |                       | SEZ-M35DA                 |         | •       | •          | •        | •           | •           | •           | •       | •      | •        | • | •       |         |     |
|          |                       | SEZ-M35DAL                |         | •       | •          | •        |             | •           | •           | •       |        | •        | • | •       |         |     |
|          |                       | SEZ-M50DA                 |         |         |            |          | •           | •           | •           | •       | •      | •        | • | •       |         |     |
|          |                       | SEZ-M50DAL                |         |         |            |          | •           | •           | •           | •       | •      | •        | • | •       |         |     |
|          |                       | SEZ-M60DA                 |         |         |            |          |             | •           | •           | •       |        | •        | • | •       |         | L   |
|          |                       | SEZ-M60DAL                |         |         |            |          |             | •           | •           | •       | •      | •        | • | •       |         |     |
|          |                       | SEZ-M71DA                 |         |         |            |          |             |             |             |         |        | •        | • | •       |         |     |
|          |                       | SEZ-M71DAL                |         |         |            |          |             |             |             |         | •      | •        | • | •       |         |     |
|          | Ceiling-              | PCA-M50KA                 |         |         |            |          | •           | •           | •           | •       |        |          |   |         |         |     |
| eries    |                       | PCA-M60KA                 |         |         |            |          |             | •           |             |         |        |          |   |         |         |     |
| eries    | Suspended             |                           |         |         |            |          |             |             |             |         |        |          |   |         |         |     |
| eries    | Ousperided            | PCA-M71KA                 |         | 1       |            |          | <b>•</b> *1 | <b>*</b> 1  | <b>*</b> 1  |         |        |          |   |         |         |     |
| eries    |                       | PCA-M71KA<br>PEAD-M50.IA  |         |         |            |          |             | -           | -           | -       |        |          |   |         |         |     |
| eries    | Ceiling-<br>Concealed | PEAD-M50JA                |         |         |            |          |             | @ *4        | @ *4        |         |        |          |   |         |         |     |
| eries    | Ceiling-              | PEAD-M50JA<br>PEAD-M50JAL |         |         |            |          | •1          | <b>•</b> *1 | <b>•</b> *1 | •       |        |          |   |         |         |     |
| eries    | Ceiling-              | PEAD-M50JA<br>PEAD-M60JA  |         |         |            |          |             | <b>•</b> *1 | <b>•</b> *1 | •       |        |          |   |         |         |     |
| eries    | Ceiling-              | PEAD-M50JA<br>PEAD-M50JAL |         |         |            |          |             | ●*1         | •*1         | •       |        |          |   |         |         |     |

<sup>\*1</sup> Maximum total current of indoor units: 3A or less.
\*2 SEZ-M25 cannot be connected with MXZ-2F/3F/4F when total capacity of connected indoor units is equivalent to outdoor capacity (capacity ratio is 1).
\*3 MXZ outdoor units are not designed to operate with a single indoor unit with one-to-one piping work. Please install at least two indoor units.

### ■ MXZ Series R410A

Possible combinations of outdoor units and indoor units are shown below.

|                                 | _                           |   | MXZ-*3                         | MXZ-*3       | MXZ-*3       |                                | MXZ-*3      | odels Heat<br>MXZ-*3 | MXZ-*3       | MXZ-*3      | MXZ-*3          | MXZ-*3     |             | MXZ-*3  |      |
|---------------------------------|-----------------------------|---|--------------------------------|--------------|--------------|--------------------------------|-------------|----------------------|--------------|-------------|-----------------|------------|-------------|---------|------|
| oor Unit                        |                             |   | 2D33VA                         | 2D42VA2      | 2D53VA(H)2   | 2E53VAHZ                       | 3E54VA      | 3E68VA               | 4E72VA       | 4E83VA      | 4E83VAHZ        | 5E102VA    | 6D122VA2    | 2DM40VA | 3DM5 |
| series                          | Wall-<br>Mounted            | MSZ-LN18VG(W)(V)(R)(B)  |                                |              |              |                                |             |                      |              |             |                 |            |             |         |      |
|                                 | Mountou                     | MSZ-LN25VG(W)(V)(R)(B)  | •                              | •            | •            | •                              | •           | •                    | •            | •           | •               | •          | •           |         |      |
|                                 |                             | MSZ-LN35VG(W)(V)(R)(B)  |                                | •            | •            | •                              | •           | •                    |              |             | •               |            | •           |         |      |
|                                 |                             | MSZ-LN50VG(W)(V)(R)(B)  |                                |              |              |                                |             |                      |              |             |                 |            |             |         |      |
|                                 |                             | MSZ-AP15VG*7  | •                              |              | •            |                                |             |                      | •            | •           | •               | •          | •           |         |      |
|                                 |                             | MSZ-AP20VG*7  | •                              | •            | •            | •                              | •           | •                    | •            | •           | •               | •          | •           |         |      |
|                                 |                             | MSZ-AP25VG*7  |                                |              |              |                                |             |                      |              |             |                 |            |             |         |      |
|                                 |                             | MSZ-AP35VG*7  |                                | •            | •            | •                              | •           | •                    | •            | •           |                 | •          | •           |         |      |
|                                 |                             | MSZ-AP42VG*7  |                                |              | •            |                                |             | •                    |              |             |                 |            |             |         |      |
|                                 |                             | MSZ-AP50VG*7  |                                |              | •            | •                              |             | •                    | •            | •           | •               | •          | •           |         |      |
|                                 |                             | MSZ-EF18VG(W)(B)(S)   |                                |              | •            |                                |             |                      |              |             |                 |            | •           |         |      |
|                                 |                             | MSZ-EF22VG(W)(B)(S)   |                                |              | •            | •                              |             | •                    |              |             |                 | •          | •           |         |      |
|                                 |                             | MSZ-EF25VG(W)(B)(S)   |                                |              | •            |                                |             | •                    |              |             |                 |            |             |         |      |
|                                 |                             | MSZ-EF35VG(W)(B)(S)   |                                |              |              |                                |             |                      |              |             |                 |            |             |         |      |
|                                 |                             | MSZ-EF42VG(W)(B)(S)   |                                |              | •            | •                              |             | •                    |              |             |                 |            | •           |         |      |
|                                 |                             | MSZ-EF50VG(W)(B)(S)   |                                |              | •            | •                              |             | •                    |              | •           | •               | •          | •           |         |      |
|                                 |                             | MSZ-FH25VE2   |                                |              | •            | •                              |             | •                    |              |             |                 |            |             |         |      |
|                                 |                             | MSZ-FH35VE2   |                                |              | •            | •                              |             | •                    |              | •           |                 |            | •           |         |      |
|                                 |                             | MSZ-FH50VE2   |                                |              |              |                                |             |                      |              | •           |                 | •          | •           |         |      |
|                                 |                             | MSZ-SF15VA  | •                              | •            | •            | •                              | •           | •                    | •            | •           |                 | •          | •           |         |      |
|                                 |                             | MSZ-SF20VA  |                                |              |              | •                              |             |                      |              | •           |                 |            | •           |         |      |
|                                 |                             | MSZ-SF25VE3   |                                |              | •            | •                              | •           | •                    |              | •           | •               | •          | •           |         |      |
|                                 |                             | MSZ-SF35VE3   |                                |              |              |                                |             |                      | •            |             |                 |            |             |         |      |
|                                 |                             | MSZ-SF42VE3   |                                |              | •            | •                              | •           | •                    | •            | •           | •               | •          | •           |         |      |
|                                 |                             | MSZ-SF50VE3   |                                |              |              |                                |             |                      | •            | •           |                 |            |             |         |      |
|                                 |                             | MSZ-GF60VE2   |                                |              |              |                                |             | •                    | •            | •           |                 | •          | •           |         |      |
|                                 |                             | MSZ-GF71VE2   |                                |              |              |                                |             |                      |              | •           |                 | •          |             |         |      |
|                                 |                             | MSZ-DM25VA  |                                |              |              |                                |             |                      |              |             |                 |            |             |         |      |
|                                 |                             |   |                                |              |              |                                |             |                      |              |             |                 |            |             | •       |      |
|                                 |                             | MSZ-DM35VA  |                                |              |              |                                |             |                      |              |             |                 |            |             | •       |      |
|                                 |                             | MSZ-HJ25VA  |                                |              |              |                                |             |                      |              |             |                 |            |             | •       |      |
|                                 |                             | MSZ-HJ35VA  |                                |              |              |                                |             |                      |              |             |                 |            |             |         | •    |
|                                 | _                           | MSZ-HJ50VA  | - *4*E                         | - *4         | - *4         | _                              | - *4        | - *4                 | _            | _           | _               | _          | _           |         | -    |
|                                 | Floor-<br>Standing          | MFZ-KJ25VE2   | *4*5                           | *4           | *4           |                                | *4          | *4                   |              |             |                 |            |             |         |      |
|                                 | Standing                    | MFZ-KJ35VE2   |                                | •*4          | •*4          | •                              | *4          | •*4                  |              | •           |                 |            | •           |         |      |
|                                 |                             | MFZ-KJ50VE2   |                                |              |              |                                | *4          | •*4                  |              |             |                 |            |             |         |      |
|                                 | 1-way<br>Cassette           | MLZ-KP25VF  | •                              | •            | •            | •                              | •           | •                    |              | •           | •               | •          | •           |         |      |
|                                 | Casselle                    | MLZ-KP35VF  |                                |              |              |                                |             | •                    |              |             |                 |            |             |         |      |
|                                 |                             | MLZ-KP50VF  |                                |              |              |                                | •           | •                    |              | •           | •               | •          | •           |         |      |
| eries                           | 2×2                         | SLZ-M15FA   |                                |              |              |                                |             |                      |              |             |                 |            |             |         |      |
|                                 | Cassette                    | SLZ-M25FA   |                                |              |              |                                |             |                      |              |             |                 |            |             |         |      |
|                                 |                             | SLZ-M35FA   |                                |              |              |                                |             |                      |              |             |                 |            |             |         |      |
|                                 |                             | SLZ-M50FA   |                                |              |              |                                |             | •                    |              |             |                 | •          | •           |         |      |
|                                 | Ceiling-                    | SEZ-M25DA*2   |                                |              |              |                                |             |                      |              |             |                 |            |             |         |      |
|                                 | Concealed                   | SEZ-M25DAL*2  |                                |              |              |                                |             |                      |              |             |                 |            |             |         |      |
|                                 |                             | SEZ-M35DA   |                                |              |              |                                |             |                      |              |             |                 |            |             |         |      |
|                                 |                             | SEZ-M35DAL  |                                |              | •            | •                              |             | •                    |              | •           |                 |            | •           |         |      |
|                                 |                             | SEZ-M50DA   |                                |              |              |                                | •           | •                    | •            | •           |                 | •          | •           |         |      |
|                                 |                             | SEZ-M50DAL  |                                |              |              |                                | •           | •                    | •            | •           |                 | •          | •           |         |      |
|                                 |                             | SEZ-M60DA   |                                |              |              |                                |             | •                    |              | •           |                 | •          |             |         |      |
|                                 |                             | SEZ-M60DAL  |                                |              |              |                                |             | •                    |              | •           |                 | •          | •           |         |      |
|                                 |                             | SEZ-M71DA   |                                |              |              |                                |             |                      |              | •           | •               | •          | •           |         |      |
|                                 |                             | SEZ-M71DAL  |                                |              |              |                                |             |                      |              | •           | •               | •          | •           |         |      |
| eries                           | 4-way                       | PLA-M50EA   |                                |              |              |                                |             | •                    |              | •           |                 | •          | •           |         |      |
|                                 | Cassette                    | PLA-M60EA   |                                |              |              |                                |             | •                    | •            | •           | •*6             | •          | •           |         |      |
|                                 |                             | PLA-M71EA   |                                |              |              |                                |             |                      |              | •           | •*6             | •          | •           |         |      |
|                                 | Ceiling-                    | PCA-M50KA   |                                |              |              |                                | •           | •                    | •            | •           | *6              | •          | •           |         |      |
|                                 | Suspended                   | PCA-M60KA   |                                |              |              |                                |             |                      |              | •           | *6              | •          |             |         |      |
|                                 |                             | PCA-M60KA<br>PCA-M71KA  |                                |              |              |                                |             |                      |              | •           | *6              |            | •           |         |      |
|                                 | Coiline                     | PEAD-M50JA  |                                |              |              |                                | •*1         | <b>●</b> *1          | <b>•</b> *1  | • 1         | *1*6            | • 1        | *1          |         |      |
|                                 | Ceiling-<br>Concealed       | PEAD-M50JA<br>PEAD-M50JAL   |                                |              |              |                                |             |                      |              |             |                 |            |             |         |      |
|                                 | Johnsaled                   |   |                                |              |              |                                | *1          | <b>●*1</b>           | <b>•</b> *1  | ●*1         | *1*6            | ●*1        | ●*1         |         |      |
|                                 |                             | PEAD-M60JA  |                                |              |              |                                |             |                      |              | ●*1         | ●*1*6<br>● *4*0 | ●*1        | <b>•</b> *1 |         |      |
|                                 |                             | PEAD-M60JAL   |                                |              |              |                                |             |                      |              | <b>*</b> 1  | *1*6            | *1         | *1          |         |      |
|                                 |                             | PEAD-M71JA  |                                |              |              |                                |             |                      |              | <b>•</b> *1 | *1*6            | <b>●*1</b> | *1          |         |      |
|                                 |                             | PEAD-M71JAL   |                                |              |              |                                |             |                      |              | *1          | *1*6            | <b>●*1</b> | <b>●</b> *1 |         |      |
| SEZ-KD2<br>MXZ outo<br>When cor | 5 cannot be cloor units are | of indoor units: 3A or less.<br>onnected with MXZ-2D(E)/3I<br>not designed to operate with<br>IFZ-KJ Series indoor unit, ac | a single ind<br>Iditional refi | door unit wi | th one-to-or | ne piping wo<br>r details, ple | ork. Please | install at lea       | ast two indo |             | pacity ratio    | is 1).     |             |         |      |

### **■ PUMY-SP Series**

Branch Box Connection Compatibility Table

| 0        | T                 | Model Name   |             |             |            |             |             | Capacity    |             |             |             |             |            |
|----------|-------------------|--------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| Series   | Type              | Model Name   | 15          | 18          | 20         | 22          | 25          | 35          | 42          | 50          | 60          | 71          | 100        |
| M series | Wall-Mounted      | MSZ-LN•VG2   |             |             |            |             |             | •           |             | •           |             |             |            |
|          |                   | MSZ-AP•VG(K) | <b>●</b> *1 |             | <b>●*1</b> |             | <b>•*1</b>  | <b>●</b> *1 | <b>•</b> *1 | <b>●</b> *1 |             |             |            |
|          |                   | MSZ-FH•VE2   |             |             |            |             |             |             |             | •           |             |             |            |
|          |                   | MSZ-EF•VG(K) |             | <b>•</b> *1 |            | <b>●</b> *1 | <b>*</b> 1  | <b>●</b> *1 | <b>•</b> *1 | <b>●</b> *1 |             |             |            |
|          |                   | MSZ-SF•VA    |             |             |            |             |             |             |             |             |             |             |            |
|          |                   | MSZ-SF•VE3   |             |             |            |             |             |             | •           | •           |             |             |            |
|          |                   | MSZ-GF•VE2   |             |             |            |             |             |             |             |             | •           |             |            |
|          | Floor-Standing    | MFZ-KT•VG    |             |             |            |             | <b>•</b> *1 | <b>●</b> *1 |             | <b>●</b> *1 |             |             |            |
|          | 1-way Cassette    | MLZ-KP•VF    |             |             |            |             | <b>•</b> *1 | <b>*</b> 1  |             | <b>●</b> *1 |             |             |            |
| S series | Ceiling-Concealed | SEZ-M•DA(L)  |             |             |            |             | <b>•</b> *1 | <b>●</b> *1 |             | <b>•</b> *1 | <b>•</b> *1 | <b>•</b> *1 |            |
|          | 2×2 Cassette      | SLZ-M•FA     | <b>●</b> *1 |             |            |             | <b>•</b> *1 | <b>●</b> *1 |             | <b>●</b> *1 |             |             |            |
| P series | Ceiling-Suspended | PCA-M•KA     |             |             |            |             |             | •           |             | •           | •           | •           | •          |
|          | 4-way Cassette    | PLA-M•EA     |             |             |            |             |             | <b>●</b> *1 |             | <b>●</b> *1 | <b>*</b> 1  | <b>•</b> *1 | <b>●*1</b> |
|          | Ceiling-Concealed | PEAD-M•JA(L) |             |             |            |             |             |             |             | <b>●</b> *1 | <b>●</b> *1 | <b>•</b> *1 | <b>●*1</b> |

<sup>\*1</sup> Connectable outdoor units are PUMY-SP112/125/140V(Y)KMR1(R2)(-BS).TH only.

### LEV Kit Connection Compatibility Table

| Series   | I/II Tuno      | Model Name   |             |            |             |            | Сар         | acity       |             |             |    |    |
|----------|----------------|--------------|-------------|------------|-------------|------------|-------------|-------------|-------------|-------------|----|----|
| Series   | I/U Type       | woder name   | 15          | 18         | 20          | 22         | 25          | 35          | 42          | 50          | 60 | 71 |
| M series | Wall-Mounted   | MSZ-LN•VG2   |             |            |             |            | <b>*</b> 1  | <b>•</b> *1 |             | <b>•</b> *1 |    |    |
|          |                | MSZ-AP•VG(K) | <b>●</b> *1 |            | <b>•</b> *1 |            | <b>•</b> *1 | <b>•</b> *1 | <b>•</b> *1 | <b>●</b> *1 |    |    |
|          |                | MSZ-FH•VE2   |             |            |             |            |             |             |             |             |    |    |
|          |                | MSZ-EF•VG(K) |             | <b>*</b> 1 |             | <b>*</b> 1 | <b>*</b> 1  | <b>*</b> 1  | <b>*</b> 1  | <b>●</b> *1 |    |    |
|          |                | MSZ-SF•VA    |             |            |             |            |             |             |             |             |    |    |
|          |                | MSZ-SF•VE3   |             |            |             |            |             | •           |             | •           |    |    |
|          | Floor-Standing | MFZ-KT•VG    |             |            |             |            | <b>•</b> *1 | <b>•</b> *1 |             | <b>*</b> 1  |    |    |

<sup>\*1</sup> Connectable outdoor units are PUMY-SP112/125/140V(Y)KMR1(R2)(-BS).TH only.

### CITY MULTI Indoor Unit Compatibility Table for PUMY-SP112/125/140

| Series       | Type              | Model Name         |     |     |     |     |     |     | Cap      | acity    |     |     |      |      |      |      |
|--------------|-------------------|--------------------|-----|-----|-----|-----|-----|-----|----------|----------|-----|-----|------|------|------|------|
| Series       | туре              | Model Name         | P10 | P15 | P20 | P25 | P32 | P40 | P50      | P63      | P71 | P80 | P100 | P125 | P140 | P200 |
|              | 1-way cassette    | PMFY-P•VBM-E       |     |     | •   | •   | •   | •   |          |          |     |     |      |      |      |      |
| MULTI series | 2-way cassette    | PLFY-P•VLMD-E      |     |     | •   | •   | •   | •   | •        | •        |     | •   | •    | •    |      |      |
| 4            | 4-way cassette    | PLFY-M•VEM-E       |     |     |     | •   |     | •   | •        | •        |     | •   | •    | •    |      |      |
|              |                   | PLFY-EP•VEM-E *3   |     |     |     |     |     |     | •        | •        |     | •   |      |      |      |      |
|              |                   | PLFY-P•VFM-E       |     |     |     |     |     |     | •        |          |     |     |      |      |      |      |
| (            | Ceiling-concealed | PEFY-P•VMR-E-L/R   |     |     |     |     |     |     |          |          |     |     |      |      |      |      |
|              |                   | PEFY-P•VMS1(L)-E   |     |     |     |     |     |     |          |          |     |     |      |      |      |      |
|              |                   | PEFY-M•VMA(L)-A *2 |     |     |     |     |     |     | •        |          | •   | •   |      |      |      |      |
|              |                   | PEFY-P•VMA3-E*1    |     |     |     |     |     |     |          |          |     |     |      |      |      |      |
|              |                   | PEFY-P•VMHS-E      |     |     |     |     |     |     | •        |          |     | •   |      |      |      |      |
|              |                   | PEFY-P•VMHS-E-F *4 |     |     |     |     |     |     |          |          |     |     |      |      |      |      |
| (            | Ceiling-suspended | PCFY-P•VKM-E       |     |     |     |     |     |     |          |          |     |     |      |      |      |      |
| ١            | Wall-mounted      | PKFY-P•VLM-E       |     |     |     | •   |     |     | •        |          |     |     |      |      |      |      |
|              |                   | PKFY-P•VKM-E       |     |     |     |     |     |     |          |          |     |     |      |      |      |      |
| F            | Floor-standing    | PFFY-P•VKM-E2      |     |     |     | •   |     | •   |          |          |     |     |      |      |      |      |
|              |                   | PFFY-P•VLEM-E      |     |     | •   | •   | •   |     | •        | •        |     |     |      |      |      |      |
|              |                   | PFFY-P•VCM-E       |     |     | •   | •   |     |     |          |          |     |     |      |      |      |      |
| L            | Lossnay           |                    |     |     |     |     |     |     | GUF-50/1 | 00RD(H)4 |     |     |      |      |      |      |

<sup>\*1</sup> Authorized connectable indoor units are as follows:
PUMY-SP112: PEFY-P25x2+P32x2, PUMY-SP125: PEFY-P25x1+P32x3, PUMY-SP140: PEFY-P32x2+P40x2
\*2 Do not connect Lossnay remote controller(s). (PZ-61DR-E, PZ-60DR-E, PZ-52SF-E, PZ-43SMF-E)
\*3 PLFY-EP can not connect more than 3 units
\*4 Connectable outdoor units are PUMY-SP112/125/140V(Y)KMR2(-BS). TH only.

### **■ PUMY-P Series**

Branch Box Connection Compatibility Table

| Series   | T                 | Model Name   |             |    |             |    |    | Capacity |    |    |    |    |     |
|----------|-------------------|--------------|-------------|----|-------------|----|----|----------|----|----|----|----|-----|
| Series   | Type              | Model Name   | 15          | 18 | 20          | 22 | 25 | 35       | 42 | 50 | 60 | 71 | 100 |
| M series | Wall-Mounted      | MSZ-LN•VG2   |             |    |             |    | •  |          |    |    |    |    |     |
|          |                   | MSZ-AP•VG(K) | <b>●</b> *1 |    | <b>●</b> *1 |    | •  | •        | •  | •  |    |    |     |
|          |                   | MSZ-FH•VE2   |             |    |             |    | •  |          |    |    |    |    |     |
|          |                   | MSZ-EF•VG(K) |             |    |             | •  | •  | •        | •  | •  |    |    |     |
|          |                   | MSZ-SF•VA    |             |    | •           |    |    |          |    |    |    |    |     |
|          |                   | MSZ-SF•VE3   |             |    |             |    | •  |          | •  |    |    |    |     |
|          |                   | MSZ-GF•VE2   |             |    |             |    |    |          |    |    |    |    |     |
|          | Floor-Standing    | MFZ-KT•VG    |             |    |             |    | •  |          |    |    |    |    |     |
|          | 1-way Cassette    | MLZ-KP•VF    |             |    |             |    | •  | •        |    | •  |    |    |     |
| S series | Ceiling-Concealed | SEZ-M•DA(L)  |             |    |             |    | •  | •        |    | •  | •  | •  |     |
|          | 2×2 Cassette      | SLZ-M•FA     |             |    |             |    | •  | •        |    | •  |    |    |     |
| P series | Ceiling-Suspended | PCA-M•KA     |             |    |             |    |    | •        |    | •  | •  | •  | •   |
|          | 4-way Cassette    | PLA-M•EA     |             |    |             |    |    | •        |    | •  | •  | •  | •   |
|          | Ceiling-Concealed | PEAD-M•JA(L) |             |    |             |    |    |          |    | •  | •  | •  | •   |

<sup>\*1</sup> MSZ-AP15/20VGK are not connectable.

### LEV Kit Connection Compatibility Table

|          |                |              |             |    |             |    | Сар | acity |    |    |    |    |
|----------|----------------|--------------|-------------|----|-------------|----|-----|-------|----|----|----|----|
| Series   | I/U Type       | Model Name   | 15          | 18 | 20          | 22 | 25  | 35    | 42 | 50 | 60 | 71 |
| M series | Wall-Mounted   | MSZ-LN•VG2   |             |    |             |    | •   |       |    | •  |    |    |
|          |                | MSZ-AP•VG(K) | <b>●</b> *1 |    | <b>●</b> *1 |    | •   |       |    | •  |    |    |
|          |                | MSZ-FH•VE2   |             |    |             |    | •   |       |    | •  |    |    |
|          |                | MSZ-EF•VG(K) |             |    |             | •  | •   |       |    |    |    |    |
|          |                | MSZ-SF•VA    | •           |    | •           |    |     |       |    |    |    |    |
|          |                | MSZ-SF•VE3   |             |    |             |    | •   |       | •  | •  |    |    |
|          | Floor-Standing | MFZ-KT•VG    |             |    |             |    | •   |       |    | •  |    |    |

<sup>\*1</sup> MSZ-AP15/20VGK are not connectable.

### CITY MULTI Indoor Unit Compatibility Table for PUMY-P112/125/140

| Series          | Turno             | Model Name       |     |     |     |     |     |     | Cap      | acity    |     |     |      |      |      |      |
|-----------------|-------------------|------------------|-----|-----|-----|-----|-----|-----|----------|----------|-----|-----|------|------|------|------|
| Series          | Туре              | woder name       | P10 | P15 | P20 | P25 | P32 | P40 | P50      | P63      | P71 | P80 | P100 | P125 | P140 | P200 |
| CITY            | 1-way cassette    | PMFY-P•VBM-E     |     |     | •   | •   | •   | •   |          |          |     |     |      |      |      |      |
| MULTI<br>series | 2-way cassette    | PLFY-P•VLMD-E    |     |     |     |     | •   |     |          |          |     |     |      |      |      |      |
| 361163          | 4-way cassette    | PLFY-M•VEM-E     |     |     | •   | •   | •   | •   |          |          |     |     | •    |      |      |      |
|                 |                   | PLFY-EP•VEM-E *4 |     |     |     |     |     |     |          |          |     |     |      |      |      |      |
|                 |                   | PLFY-P•VFM-E     |     | •   | •   | •   | •   | •   |          |          |     |     |      |      |      |      |
|                 | Ceiling-concealed | PEFY-P•VMR-E-L/R |     |     |     |     | •   |     |          |          |     |     |      |      |      |      |
|                 |                   | PEFY-P•VMS1(L)-E |     |     |     |     |     | •   |          |          |     |     |      |      |      |      |
|                 |                   | PEFY-M•VMA(L)-A  |     |     | •   | •   | •   | •   | •        | •        |     |     | •    |      | •    |      |
|                 |                   | PEFY-P•VMA3-E *1 |     |     |     |     | •   |     |          |          |     |     |      |      |      |      |
|                 |                   | PEFY-P•VMHS-E    |     |     |     |     |     | •   | •        |          | •   |     | •    | •    | •    |      |
|                 |                   | PEFY-P•VMHS-E-F  |     |     |     |     |     |     |          |          |     |     |      |      |      |      |
|                 | Ceiling-suspended | PCFY-P•VKM-E     |     |     |     |     |     | •   |          |          |     |     | •    | •    |      |      |
|                 | Wall-mounted      | PKFY-P•VLM-E     |     | •   |     |     | •   |     |          |          |     |     |      |      |      |      |
|                 |                   | PKFY-P•VKM-E     |     |     |     |     |     |     |          |          |     |     | •    |      |      |      |
|                 | Floor-standing    | PFFY-P•VKM-E2    |     |     |     |     | •   |     |          |          |     |     |      |      |      |      |
|                 |                   | PFFY-P•VLEM-E    |     |     | •   |     | •   | •   |          |          |     |     |      |      |      |      |
|                 |                   | PFFY-P•VCM-E     |     |     | •   | •   | •   | •   | •        |          |     |     |      |      |      |      |
|                 | ATW               | PWFY-P•VM-E1 *2  |     |     |     |     |     |     |          |          |     |     | •    |      |      |      |
|                 | Lossnay           |                  |     |     |     |     |     |     | GUF-50/1 | 00RD(H)4 |     |     |      |      |      |      |

### CITY MULTI Indoor Unit Compatibility Table for PUMY-P200

| Series          | Typo                   | Model Name       |     |     |     |     |     |     | Сар      | acity    |     |     |      |      |      |      |
|-----------------|------------------------|------------------|-----|-----|-----|-----|-----|-----|----------|----------|-----|-----|------|------|------|------|
| Series          | Type<br>1-way cassette | woder name       | P10 | P15 | P20 | P25 | P32 | P40 | P50      | P63      | P71 | P80 | P100 | P125 | P140 | P200 |
| CITY            | 2-way cassette         | PMFY-P•VBM-E     |     |     | •   | •   | •   | •   |          |          |     |     |      |      |      |      |
| MULTI<br>series | 4-way cassette         | PLFY-P•VLMD-E    |     |     | •   | •   | •   |     | •        |          |     | •   |      |      |      |      |
| Series          |                        | PLFY-M•VEM-E     |     |     | •   | •   | •   |     | •        | •        |     | •   | •    | •    |      |      |
|                 |                        | PLFY-EP•VEM-E *4 |     |     |     |     |     |     |          |          |     |     |      |      |      |      |
|                 | Ceiling-concealed      | PLFY-P•VFM-E     |     |     |     | •   | •   |     |          |          |     |     |      |      |      |      |
|                 |                        | PEFY-P•VMR-E-L/R |     |     |     |     | •   |     |          |          |     |     |      |      |      |      |
|                 |                        | PEFY-P•VMS1(L)-E |     |     |     |     | •   |     |          |          |     |     |      |      |      |      |
|                 |                        | PEFY-M•VMA(L)-A  |     |     |     | •   | •   |     | •        | •        | •   |     | •    | •    | •    |      |
|                 |                        | PEFY-P•VMA3-E *1 |     |     |     |     |     |     |          |          |     |     |      |      |      |      |
|                 |                        | PEFY-P•VMHS-E    |     |     |     |     |     |     | •        | •        | •   |     | •    | •    | •    | •    |
|                 |                        | PEFY-P•VMHS-E-F  |     |     |     |     |     |     |          |          |     |     |      |      |      | •    |
|                 | Ceiling-suspended      | PCFY-P•VKM-E     |     |     |     |     |     | •   |          | •        |     |     | •    | •    |      |      |
|                 | Wall-mounted           | PKFY-P•VLM-E     |     |     |     |     |     |     |          |          |     |     |      |      |      |      |
|                 |                        | PKFY-P•VKM-E     |     |     |     |     |     |     |          |          |     |     | •    |      |      |      |
|                 | Floor-standing         | PFFY-P•VKM-E2    |     |     | •   | •   | •   | •   |          |          |     |     |      |      |      |      |
|                 |                        | PFFY-P•VLEM-E    |     |     |     |     | •   | •   |          |          |     |     |      |      |      |      |
|                 |                        | PFFY-P•VCM-E     |     |     |     | •   | •   |     | •        | •        |     |     |      |      |      |      |
|                 | Lossnay                |                  |     |     |     |     |     |     | GUF-50/1 | 00RD(H)4 |     |     |      |      |      |      |

<sup>1</sup> Authorized connectable indoor units are as follows;
PUMY-P112:PEFY-P25x2+P32x2, PUMY-P125:PEFY-P32x4, PUMY-P140:PEFY-P32x3+P40x1, PUMY-P200YKM2:PEFY-P40x2+P63x2
2 Note that connection is not allowed inside EU countries.
PWFY can not connect to PUMY-P200YKM2.
3 Do not connect Losnay remote controller(s). (PZ-61DR-E, PZ-60DR-E, PZ-52SF-E, PZ-43SMF-E)
4 PUMY-P112/125/140: PLFY-EP can not connect more than 3 units
PUMY-P200: Authorized connectable indoor units are only as follows; PLFY-EP63VEM-Ex3.

# POWERFUL HEATING

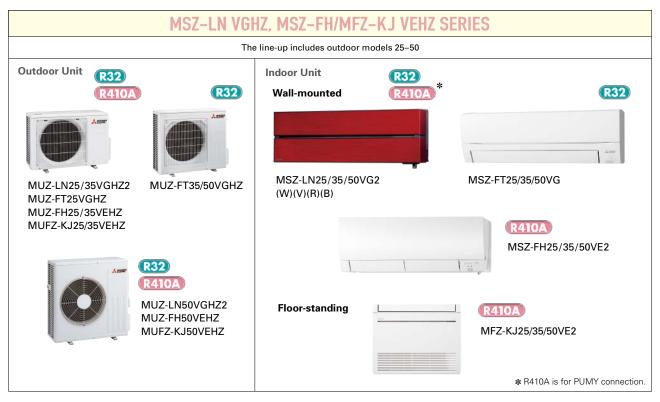


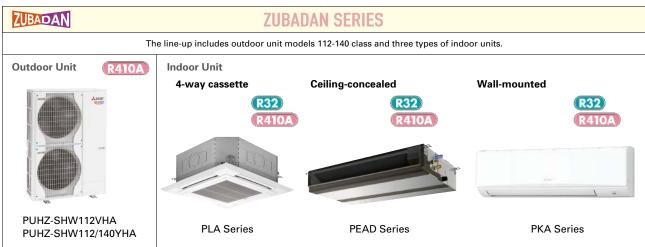




### **SELECTION**

Choose the series that best matches the building layout.







# LIVE SERIES RATION SERIES

Unlike conventional air conditioning systems, the LN Series don't lose heating capacity when it's cold outside. Original technologies ensure excellent heating performance under extremely low outdoor temperatures and an impressive guaranteed operating range.

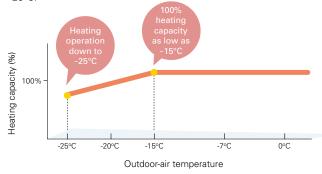




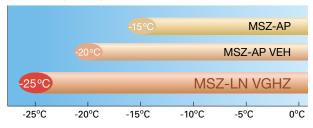
MSZ-LN25/35/50VG2(W)(V)(R)(B)

### **Unparalleled Heating Performance**

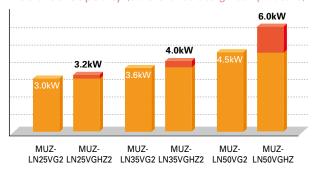
LN Series outdoor units are equipped with a high-output compressor that provides enhanced heating performance under low outdoor temperatures. The heating operation range is extended down to  $-25^{\circ}\mathrm{C}$ 



### **Operating Range**



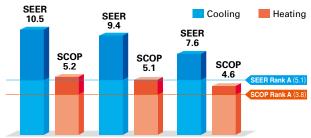
### Declared Capacity (at reference design temperature)



### High Energy Efficiency – Energy Rank of A<sup>+</sup> or higher for All Models



With indoor units that combine functionality, design and capacity and outdoor units equipped with a high-efficiency compressor, the MUZ-LN VGHZ simultaneously achieves high heating capacity and energy-saving performance.



MUZ-LN25VGHZ2 MUZ-LN35VGHZ2 MUZ-LN50VGHZ

### Freeze-prevention Heater Equipped as Standard

The Freeze-prevention heater restricts lowered capacity and operation shutdowns caused by the drain water freezing. This supports stable operation in low-temperature environments.

### Operation Guaranteed at Outside Temperature of –25°C





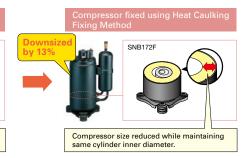
Without Freeze-prevention heater

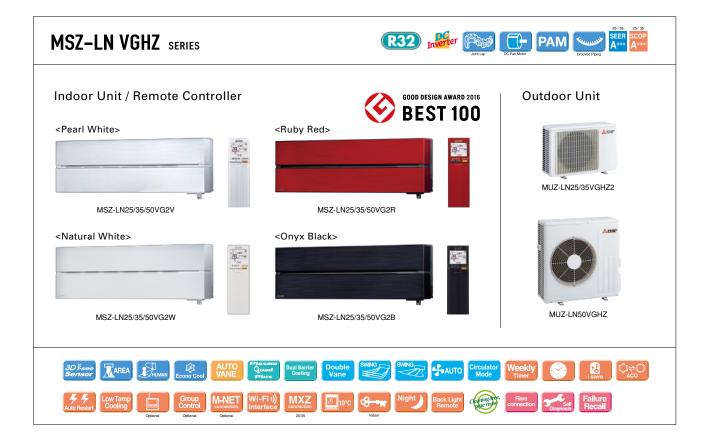
With Freeze-prevention heater

### Compact, Powerful Compressor

A special manufacturing technology, "Heat Caulking Fixing Method," has been introduced to reduce compressor size while maintaining a high compressor output. This technology enables the installation of a powerful compressor in compact MUZ outdoor units. As a result, excellent heating performance is achieved when operating in cold outdoor environments.







| Гуре                |  |           |                        |        |                              | Inverter Heat Pump           |                               |
|---------------------|--|-----------|------------------------|--------|------------------------------|------------------------------|-------------------------------|
| idoor Un            | it   |           |                        |        | MSZ-LN25VG2(W)(V)(R)(B)      | MSZ-LN35VG2(W)(V)(R)(B)      | MSZ-LN50VG2(W)(V)(R)(B)       |
| utdoor l            | Jnit   |           |                        |        | MUZ-LN25VGHZ2                | MUZ-LN35VGHZ2                | MUZ-LN50VGHZ                  |
| frigerar            | nt   |           |                        |        |                              | R32 (*1)                     |                               |
| wer                 | Source   |           |                        |        |                              | Outdoor Power supply         |                               |
| pply                | Funit ant Source Outdoor (V/Phase/H) Design Load Annual Electricity Co SEER (a-4) Capacity Total Input Design Load Back Up Heating Capanity Capacity  Total Input Capacity  Total Input Declared Capacity  Total Input Capacity  Total Input Total Input Operating Current (max) Input Operating Current (max) Input Operating Current (modi-Hi-SHi-1-3)(E Sound Level (SPL) Sound Level (SPL) Sound Level (SPL) | z)        |                        |        |                              | 230/Single/50                |                               |
| oling               | Design Load  |           |                        | kW     | 2.5                          | 3.5                          | 5.0                           |
|                     |  | nsumpti   | on (*2)                | kWh/a  | 83                           | 130                          | 230                           |
|                     | SEER (*4)  |           |                        |        | 10.5                         | 9.4                          | 7.6                           |
|                     |  | Energy    | Efficiency Class       |        | A+++                         | A+++                         | A++                           |
|                     | Capacity   | Rated     |                        | kW     | 2.5                          | 3.5                          | 5.0                           |
|                     |  | Min - Ma  | 3X                     | kW     | 0.8 - 3.5                    | 0.8 - 4.0                    | 1.4 - 5.8                     |
|                     | Total Input  | Rated     |                        | kW     | 0.485                        | 0.820                        | 1.380                         |
| ating               | Design Load  |           |                        | kW     | 3.2 (-10°C)                  | 4.0 (-10°C)                  | 6.0 (-10°C)                   |
| verage<br>ason)(*5) | Declared Capacity  | at refere | nce design temperature | kW     | 3.2 (-10°C)                  | 4.0 (-10°C)                  | 6.0 (-10°C)                   |
| 13011)              |  | at bivale | nt temperature         | kW     | 3.2 (-10°C)                  | 4.0 (-10°C)                  | 6.0 (-10°C)                   |
|                     |  | at opera  | tion limit temperature | kW     | 2.3 (-25°C)                  | 3.1 (-25°C)                  | 4.7 (-25°C)                   |
|                     |  |           |                        | kW     | 0.0 (-10°C)                  | 0.0 (-10°C)                  | 0.0 (-10°C)                   |
|                     |  | nsumpti   | on <sup>(*2)</sup>     | kWh/a  | 861                          | 1098                         | 1826                          |
|                     | SCOP (*4)  |           |                        |        | 5.2                          | 5.1                          | 4.6                           |
|                     |  | Energy    | Efficiency Class       |        | A+++                         | A+++                         | A++                           |
|                     | Capacity   | Rated     |                        | kW     | 3.2                          | 4.0                          | 6.0                           |
|                     |  | Min - Ma  | ax .                   | kW     | 0.8 - 6.3                    | 0.9 - 6.6                    | 1.8 - 8.7                     |
|                     | Total Input  | Rated     |                        | kW     | 0.600                        | 0.820                        | 1.480                         |
| eratin              | g Current (max)  |           |                        | Α      | 9.9                          | 10.5                         | 15.2                          |
| loor                | Input  |           | Rated                  | kW     | 0.027                        | 0.027                        | 0.034                         |
| it                  | Operating Current (r   | nax)      |                        | А      | 0.3                          | 0.3                          | 0.4                           |
|                     | Dimensions   |           | $H \times W \times D$  | mm     | 307 - 890 - 233              | 307 - 890 - 233              | 307 - 890 - 233               |
|                     |  |           |                        | kg     | 15.5                         | 15.5                         | 15.5                          |
|                     |  |           | Cooling                | m³/min | 4.3 - 5.8 - 7.1 - 8.8 - 11.9 | 4.3 - 5.8 - 7.1 - 8.8 - 12.8 | 5.7 - 7.6 - 8.9 - 10.6 - 13.9 |
|                     | 1  | Ory/Wet)) | Heating                | m³/min | 4.0 - 5.7 - 7.1 - 8.5 - 14.4 | 4.3 - 5.7 - 7.1 - 8.5 - 13.7 | 5.4 - 6.4 - 8.5 - 10.7 - 15.7 |
|                     |  | 21.       | Cooling                | dB(A)  | 19 - 23 - 29 - 36 - 42       | 19 - 24 - 29 - 36 - 43       | 27 - 31 - 35 - 39 - 46        |
|                     | -  | ")        | Heating                | dB(A)  | 19 - 24 - 29 - 36 - 45       | 19 - 24 - 29 - 36 - 45       | 25 - 29 - 34 - 39 - 47        |
|                     | ,  |           |                        | dB(A)  | 58                           | 58                           | 60                            |
| tdoor               |  |           | $H \times W \times D$  | mm     | 550 - 800 - 285              | 550 - 800 - 285              | 880 - 840 - 330               |
| iit                 | - 5  |           |                        | kg     | 35                           | 36                           | 55                            |
|                     | Air Volume   |           | Cooling                | m³/min | 31.4                         | 33.8                         | 48.8                          |
|                     |  |           | Heating                | m³/min | 27.4                         | 27.4                         | 51.3                          |
|                     | Sound Level (SPL)  |           | Cooling                | dB(A)  | 46                           | 49                           | 51                            |
|                     |  |           | Heating                | dB(A)  | 49                           | 50                           | 54                            |
|                     |  |           | Cooling                | dB(A)  | 60                           | 61                           | 64                            |
|                     |  | nax)      |                        | А      | 9.6                          | 10.2                         | 14.8                          |
|                     |  |           | T                      | Α      | 10                           | 12                           | 16                            |
| t.                  |  |           | Liquid / Gas           | mm     | 6.35/9.52                    | 6.35/9.52                    | 6.35/9.52                     |
| ping                | Max. Length  |           | Out-In                 | m      | 20                           | 20                           | 30                            |
|                     | Max. Height  |           | Out-In                 | m      | 12                           | 12                           | 15                            |
|                     | ed Operating Range   |           | Cooling                | °C     | -10 ~ +46                    | -10 ~ +46                    | -10 ~ +46                     |
| Outdoorl            |  |           | Heating                | °C     | -25 ~ +24                    | -25 ~ +24                    | -25 ~ +24                     |

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change, Refrigerant with lower global warming potential (GWP) would contribute is to global warming than a refrigerant with ligher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) SHI: Super High

(\*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(\*5) Please see page 51-52 for heating (warmer season/colder season) specifications.

# FT VGHZ SERIES

Unlike conventional air conditioning systems, the FT Series don't lose heating capacity when it's cold outside. Original technologies ensure excellent heating performance under extremely low outdoor temperatures and an impressive guaranteed operating range. Furthermore, the smaller and stylish indoor unit does not give you the limitation of installation location.



MSZ-FT25/35/50VG(K)

**Compact Design** 



The FT series features its compact design with 280mm height and

229mm depth, which is suitable for the installation above the door.

### Built-in Wi-Fi

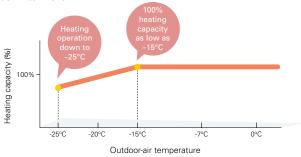
(MSZ-FT25/35/50VGK)

Powerful

Mitsubishi Electric Wi-Fi Control gives you the freedom to tailor your heating and cooling needs through computers, tablets, or smartphones from anywhere.

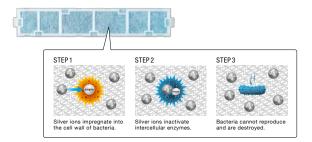
### **Hyper Heating**

Mitsubishi Electric's powerful compressor and highly cold-resistant parts enable the heat pump to provide 100% or more heating capacity even at -15°C, and also the heating operation is guaranteed down to -25°C.



### Silver-ionized Air Purifier Filter

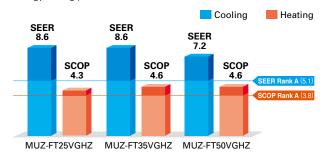
The high performance filter is attached as standard. Captures the bacteria, pollen and other allergens in the air and neutralises them.



### High Energy Efficiency - Energy Rank of A<sup>+</sup> or higher for All Models



With indoor units that combine functionality, design and capacity and outdoor units equipped with a high-efficiency compressor, the MUZ-FT VGHZ simultaneously achieves high heating capacity and energy-saving performance.



(MSZ-FT25/35/50VG(K)-SC Scandinavian Model)

### Remote Controller with Backlight

The remote controller screen is equipped with an LED backlight. The luminous screen allows you to check the setting easily even in the dark.



### Circulator Mode

After reaching the target temperature, heating mode will automatically switch to Circulator mode, which makes the unit go into "fanonly" state and mixes warm air in the room.

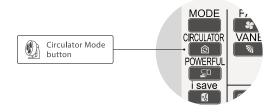




Image is for illustration purposes.

### MSZ-FT SERIES



















MSZ-FT25/35/50VG(K)

### **Outdoor Unit**







MUZ-FT35/50VGHZ



Remote Controller







































































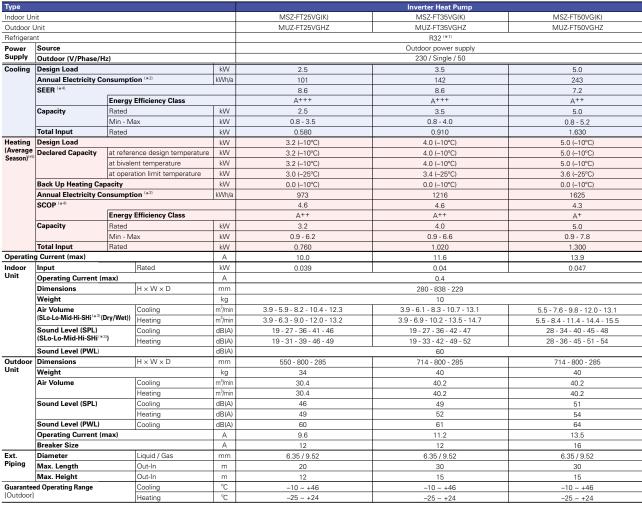












<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) SHI: Super High

(\*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(\*5) Please see page 51-52 for heating (warmer season) specifications.

# EHVEHZ SERIES

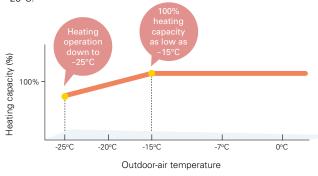
Unlike conventional air conditioning systems, the FH Series don't lose heating capacity when it's cold outside. Original technologies ensure excellent heating performance under extremely low outdoor temperatures and an impressive guaranteed operating range.



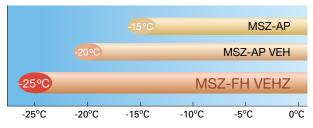


### **Unparalleled Heating Performance**

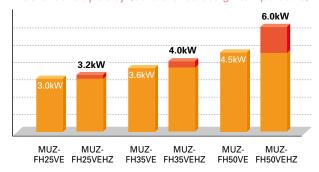
FH Series outdoor units are equipped with a high-output compressor that provides enhanced heating performance under low outdoor temperatures. The heating operation range is extended down to -25°C



### **Operating Range**



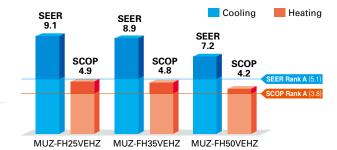
### Declared Capacity (at reference design temperature)



### High Energy Efficiency – Energy Rank of A<sup>+</sup> or higher for All Models



With indoor units that combine functionality, design and capacity and outdoor units equipped with a high-efficiency compressor, the MUZ-FH VEHZ simultaneously achieves high heating capacity and energy-saving performance.



### Freeze-prevention Heater Equipped as Standard

The Freeze-prevention heater restricts lowered capacity and operation shutdowns caused by the drain water freezing. This supports stable operation in low-temperature environments.

### Operation Guaranteed at Outside Temperature of -25°C



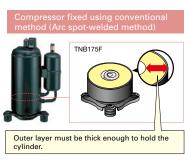


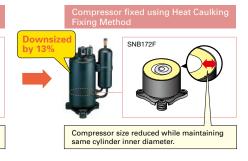
Without Freeze-prevention heater

With Freeze-prevention heater

### Compact, Powerful Compressor

A special manufacturing technology, "Heat Caulking Fixing Method," has been introduced to reduce compressor size while maintaining a high compressor output. This technology enables the installation of a powerful compressor in compact MUZ outdoor units. As a result, excellent heating performance is achieved when operating in cold outdoor environments.





### Inverter PAM SEER SEER ATT MSZ-FH VEHZ SERIES Indoor Unit **Outdoor Unit** Remote Controller **GOOD DESIGN AWARD 2012** MSZ-FH25/35/50VE2 MUZ-FH25/35VEHZ MUZ-FH50VEHZ

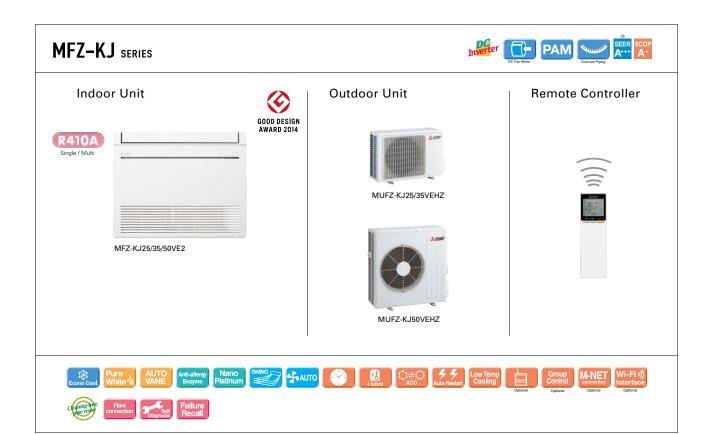
| Гуре       |  |           |                        |        |                                     | Inverter Heat Pump                  |                               |
|------------|--|-----------|------------------------|--------|-------------------------------------|-------------------------------------|-------------------------------|
| idoor Ur   | it   |           |                        |        | MSZ-FH25VE2                         | MSZ-FH35VE2                         | MSZ-FH50VE2                   |
| utdoor l   | Jnit   |           |                        |        | MUZ-FH25VEHZ                        | MUZ-FH35VEHZ                        | MUZ-FH50VEHZ                  |
| efrigera   | Unit  nt  Source  Outdoor (V/Phase/Hz)  Design Load  Annual Electricity Consumption (*2)  SEER (*4)  Energy Efficiency Class  Capacity Rated Min - Max  Total Input Rated  Declared Capacity at reference design temperat at bivalent temperature at operation limit temperature at operation limit temperature at operation limit temperature  Back Up Heating Capacity  Back Up Heating Capacity  Energy Efficiency Class  Capacity Rated Min - Max  Total Input Rated  Gurrent (max)  Input Rated  Operating Current (max)  Dimensions H × W × D  Weight  Air Volume (SLo-Lo-Mid-Hi-SHi (*3))  Sound Level (SPL)  (SLo-Lo-Mid-Hi-SHi (*3))  Sound Level (PWL) |           |                        |        |                                     | R410A (*1)                          |                               |
| ower       | Source   |           |                        |        |                                     | Outdoor power supply                |                               |
| upply      | Outdoor (V/Phase/H   | lz)       |                        |        |                                     | 230 / Single / 50                   |                               |
| ooling     | Design Load  |           |                        | kW     | 2.5                                 | 3.5                                 | 5.0                           |
|            | Annual Electricity Co  | onsumpti  | on (*2)                | kWh/a  | 96                                  | 138                                 | 244                           |
|            | SEER (*4)  |           |                        |        | 9.1                                 | 8.9                                 | 7.2                           |
|            |  | Energy    | Efficiency Class       |        | A+++                                | A+++                                | A++                           |
|            | Capacity   | Rated     |                        | kW     | 2.5                                 | 3.5                                 | 5.0                           |
|            |  | Min - Ma  | 3X                     | kW     | 0.8 - 3.5                           | 0.8 - 4.0                           | 1.9 - 6.0                     |
|            | Total Input  | Rated     |                        | kW     | 0.485                               | 0.820                               | 1.380                         |
| eating     | Design Load  |           |                        | kW     | 3.2                                 | 4.0                                 | 6.0                           |
| verage     | Declared Capacity  | at refere | nce design temperature | kW     | 3.2                                 | 4.0                                 | 6.0                           |
| eason)(*5) |  | at bivale | nt temperature         | kW     | 3.2                                 | 4.0                                 | 6.0                           |
|            |  | at opera  | tion limit temperature | kW     | 1.7                                 | 2.6                                 | 3.8                           |
|            | Back Up Heating Cap  | pacity    |                        | kW     | 0.0                                 | 0.0                                 | 0.0                           |
|            | Annual Electricity Co  | onsumpti  | on (*2)                | kWh/a  | 924                                 | 1173                                | 2006                          |
|            |  |           |                        |        | 4.9                                 | 4.8                                 | 4.2                           |
|            |  | Energy    | Efficiency Class       |        | A++                                 | A++                                 | A+                            |
|            | Capacity   | Rated     |                        | kW     | 3.2                                 | 4.0                                 | 6.0                           |
| L          |  | Min - Ma  | ЭX                     | kW     | 1.0 - 6.3                           | 1.0 - 6.6                           | 1.7 - 8.7                     |
|            | Total Input  | Rated     |                        | kW     | 0.580                               | 0.800                               | 1.480                         |
| peratin    | g Current (max)  |           |                        | Α      | 9.6                                 | 10.5                                | 14.0                          |
| door       | Input  |           | Rated                  | kW     | 0.029                               | 0.029                               | 0.031                         |
| nit        | Operating Current (r   | nax)      |                        | Α      | 0.4                                 | 0.4                                 | 0.4                           |
|            | Dimensions   |           | $H \times W \times D$  | mm     |                                     | 305 (+17) - 925 - 234               |                               |
|            | Weight   |           |                        | kg     | 13.5                                | 13.5                                | 13.5                          |
|            |  |           | Cooling                | m³/min | 3.9 - 4.7 - 6.3 - 8.6 - 11.6 (10.5) | 3.9 - 4.7 - 6.3 - 8.6 - 11.6 (10.5) | 6.4 - 7.4 - 8.6 - 10.1 - 12.4 |
|            | (SLo-Lo-Mid-Hi-SHi (*3) (I   | Dry/Wet)) | Heating                | m³/min | 4.0 - 4.7 - 6.4 - 9.2 - 13.2        | 4.0 - 4.7 - 6.4 - 9.2 - 13.2        | 5.7 - 7.2 - 9.0 - 11.2 - 14.6 |
|            |  |           | Cooling                | dB(A)  | 20 - 23 - 29 - 36 - 42              | 21 - 24 - 29 - 36 - 42              | 27 - 31 - 35 - 39 - 44        |
|            | (SLo-Lo-Mid-Hi-SHi (*  | 3))       | Heating                | dB(A)  | 20 - 24 - 29 - 36 - 44              | 21 - 24 - 29 - 36 - 44              | 25 - 29 - 34 - 39 - 46        |
|            | Sound Level (PWL)  |           |                        | dB(A)  | 58                                  | 58                                  | 60                            |
| utdoor     | Dimensions   |           | $H \times W \times D$  | mm     | 550 - 80                            | 00 - 285                            | 880 - 840 - 330               |
| nit        | Weight   |           |                        | kg     | 37                                  | 37                                  | 55                            |
|            | Air Volume   |           | Cooling                | m³/min | 31.3                                | 33.6                                | 48.8                          |
|            |  |           | Heating                | m³/min | 31.3                                | 33.6                                | 51.3                          |
|            | Sound Level (SPL)  |           | Cooling                | dB(A)  | 46                                  | 49                                  | 51                            |
|            |  |           | Heating                | dB(A)  | 49                                  | 50                                  | 54                            |
|            | Sound Level (PWL)  |           | Cooling                | dB(A)  | 60                                  | 61                                  | 64                            |
|            | Operating Current (r   | nax)      |                        | Α      | 9.2                                 | 10.1                                | 13.6                          |
|            | Breaker Size   |           |                        | Α      | 10                                  | 12                                  | 16                            |
| ĸt.        | Diameter   |           | Liquid / Gas           | mm     | 6.35 / 9.52                         | 6.35 / 9.52                         | 6.35 / 12.7                   |
| iping      | Max. Length  |           | Out-In                 | m      | 20                                  | 20                                  | 30                            |
|            | Max. Height  |           | Out-In                 | m      | 12                                  | 12                                  | 15                            |
|            | ed Operating Range   |           | Cooling                | °C     | -10 ~ +46                           | -10 ~ +46                           | -10 ~ +46                     |
| Outdoor]   |  |           | Heating                | °C     | -25 ~ +24                           | -25 ~ +24                           | -25 ~ +24                     |

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute its or global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) Shi: Super High
(\*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(\*5) Please see page 51-52 for heating (warmer season) specifications.



| Туре       |                            |           |                        |        |                             | Inverter Heat Pump          |                               |
|------------|----------------------------|-----------|------------------------|--------|-----------------------------|-----------------------------|-------------------------------|
| Indoor Un  | it                         |           |                        |        | MFZ-KJ25VE2                 | MFZ-KJ35VE2                 | MFZ-KJ50VE2                   |
| Outdoor U  |                            |           |                        |        | MUFZ-KJ25VEHZ               | MUFZ-KJ35VEHZ               | MUFZ-KJ50VEHZ                 |
| Refrigerar | nt                         |           |                        |        |                             | R410A (*1)                  |                               |
| Power      | Source                     |           |                        |        |                             | Outdoor power supply        |                               |
| Supply     | Outdoor (V/Phase/H         | z)        |                        |        |                             | 230 / Single / 50           |                               |
| Cooling    | Design Load                |           |                        | kW     | 2.5                         | 3.5                         | 5.0                           |
|            | Annual Electricity Co      | nsumpti   | on (*2)                | kWh/a  | 102                         | 150                         | 266                           |
|            | SEER (*4)                  |           |                        |        | 8.5                         | 8.1                         | 6.5                           |
|            |                            | Energy    | Efficiency Class       |        | A+++                        | A++                         | A++                           |
|            | Capacity                   | Rated     |                        | kW     | 2.5                         | 3.5                         | 5.0                           |
|            |                            | Min - Ma  | ЭX                     | kW     | 0.5 - 3.4                   | 0.5 - 3.7                   | 1.6 - 5.7                     |
|            | Total Input                | Rated     |                        | kW     | 0.540                       | 0.940                       | 1.410                         |
| Heating    | Design Load                |           |                        | kW     | 3.5                         | 3.6                         | 4.5                           |
| (Average   | Declared Capacity          | at refere | nce design temperature | kW     | 3.5                         | 3.6                         | 4.5                           |
| Season)    |                            | at bivale | nt temperature         | kW     | 3.5                         | 3.6                         | 4.5                           |
|            |                            | at opera  | tion limit temperature | kW     | 1.6                         | 2.3                         | 3.3                           |
|            | Back Up Heating Cap        | oacity    |                        | kW     | 0.0                         | 0.0                         | 0.0                           |
|            | Annual Electricity Co      | nsumpti   | on <sup>(*2)</sup>     | kWh/a  | 1104                        | 1158                        | 1467                          |
|            | SCOP (*4)                  |           |                        |        | 4.4                         | 4.3                         | 4.2                           |
|            |                            | Energy    | Efficiency Class       |        | A+                          | A+                          | A+                            |
|            | Capacity                   | Rated     |                        | kW     | 3.4                         | 4.3                         | 6.0                           |
|            |                            | Min - Ma  | ЭX                     | kW     | 1.2 - 5.1                   | 1.2 - 5.8                   | 2.2 - 8.4                     |
|            | Total Input                | Rated     |                        | kW     | 0.770                       | 1.100                       | 1.610                         |
| Operatin   | g Current (max)            |           |                        | Α      | 4.42                        | 3.91                        | 3.73                          |
| Indoor     | Input                      |           | Rated                  | kW     | 0.016                       | 0.016                       | 0.038                         |
| Unit       | Operating Current (n       | nax)      |                        | Α      | 0.17                        | 0.17                        | 0.34                          |
|            | Dimensions                 |           | $H \times W \times D$  | mm     |                             | 600 - 750 - 215             |                               |
|            | Weight                     |           |                        | kg     | 15                          | 15                          | 15                            |
|            | Air Volume                 |           | Cooling                | m³/min | 3.9 - 4.9 - 5.9 - 7.1 - 8.2 | 3.9 - 4.9 - 5.9 - 7.1 - 8.2 | 5.6 - 6.7 - 8.0 - 9.3 - 10.6  |
|            | (SLo-Lo-Mid-Hi-SHi (*3) ([ | Ory/Wet)) | Heating                | m³/min | 3.9 - 5.1 - 6.2 - 7.7 - 9.7 | 3.9 - 5.1 - 6.2 - 7.7 - 9.7 | 6.0 - 7.4 - 9.4 - 11.6 - 14.0 |
|            | Sound Level (SPL)          |           | Cooling                | dB(A)  | 20 - 25 - 30 - 35 - 39      | 20 - 25 - 30 - 35 - 39      | 27 - 31 - 35 - 39 - 44        |
|            | (SLo-Lo-Mid-Hi-SHi (*3     | ")        | Heating                | dB(A)  | 19 - 25 - 30 - 35 - 41      | 19 - 25 - 30 - 35 - 41      | 29 - 35 - 40 - 45 - 50        |
|            | Sound Level (PWL)          |           |                        | dB(A)  | 49                          | 50                          | 56                            |
| Outdoor    |                            |           | $H \times W \times D$  | mm     | 550 - 80                    |                             | 880 - 840 - 330               |
| Unit       | Weight                     |           |                        | kg     | 37                          | 37                          | 55                            |
|            | Air Volume                 |           | Cooling                | m³/min | 31.3                        | 31.3                        | 45.8                          |
|            |                            |           | Heating                | m³/min | 33.6                        | 33.6                        | 45.8                          |
|            | Sound Level (SPL)          |           | Cooling                | dB(A)  | 46                          | 47                          | 49                            |
|            |                            |           | Heating                | dB(A)  | 51                          | 51                          | 51                            |
|            | Sound Level (PWL)          |           | Cooling                | dB(A)  | 59                          | 60                          | 63                            |
|            | Operating Current (n       | nax)      |                        | Α      | 9.2                         | 10                          | 13.6                          |
|            | Breaker Size               |           |                        | Α      | 10                          | 12                          | 16                            |
| Ext.       | Diameter                   |           | Liquid / Gas           | mm     | 6.35 / 9.52                 | 6.35 / 9.52                 | 6.35 / 12.7                   |
| Piping     | Max. Length                |           | Out-In                 | m      | 20                          | 20                          | 30                            |
|            | Max. Height                |           | Out-In                 | m      | 12                          | 12                          | 15                            |
|            | ed Operating Range         |           | Cooling                | °C     | -10 ~ +46                   | -10 ~ +46                   | -10 ~ +46                     |
| [Outdoor]  |                            |           | Heating                | °C     | −25 ~ +24                   | -25 ~ +24                   | -25 ~ +24                     |

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO2, over a pendio of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) SHI: Super High

(\*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

# **ZUBADAN** SERIES

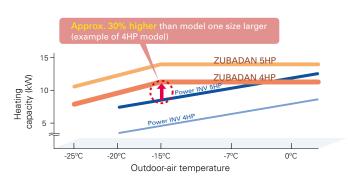
The ZUBADAN Series incorporates an original Flash Injection technology that improves the already high heating capacity of the system. This new member of the series line-up ensures comfortable heat pump-driven heating performance in cold regions.

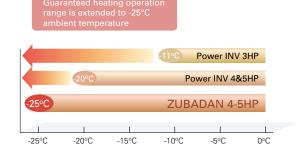


Units in photo are Japanese models.
European model specifications are different.

### Improved Heating Performance

Mitsubishi Electric's unique "Flash Injection" circuit achieves remarkably high heating performance. This technology has resulted in an excellent heating capacity rating in outdoor temperatures as low as -15°C, and the guaranteed heating operation range of the heating mode has been extended to -25°C. Accordingly, the heat-pump units of the ZUBADAN Series are perfect for warming homes in the coldest of regions.

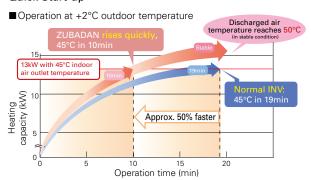


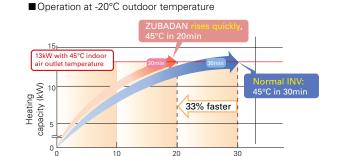


### **Enhanced Comfort**

The Flash Injection circuit improves start-up and recover from the defrosting operation. A newly introduced defrost operation control also improves defrost frequency. These features enable the temperature to reach the set temperature more quickly, and contribute to maintaining it at the desired setting.

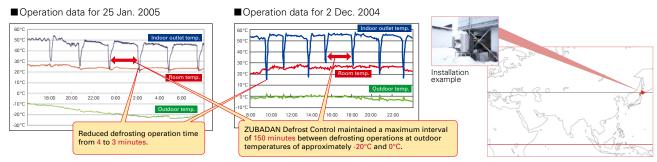
### Quick Start-up





Operation time (min)

ZUBADAN Defrost Control and Faster Recovery from Defrost Operation Field Test Results: Office building in Asahikawa, Hokkaido, Japan



### ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A and A+

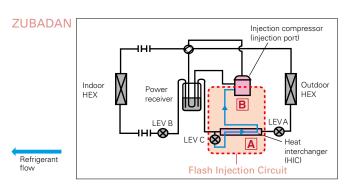


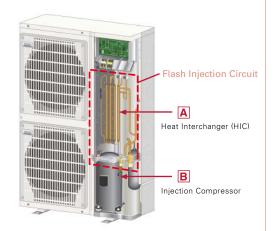
Powerful heating yet annually high energy efficiency in both cooling and heating, achieving rank A and A+.



### Mitsubishi Electric's Flash Injection Technology The Key to High Heating Performance at Low Outdoor Temperatures

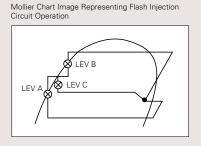
### ■Flash Injection Circuit





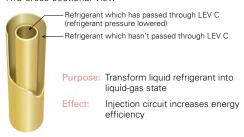
The ZUBADAN Series is equipped with Mitsubishi Electric's original Flash Injection Circuit, which is comprised of a bypass circuit and heat interchanger (HIC). The HIC transforms rerouted liquid refrigerant into a gas-liquid state to lower compression load. This process ensures excellent heating performance even when the outdoor temperature drops very low.

In traditional units, when the outdoor temperature is low, the volume of refrigerant circulating in the compressor decreases due to the drop in refrigerant pressure and the protection from overheating caused by high compression, thereby reducing heating capacity. The Flash Injection Circuit injects refrigerant to maintain the refrigerant circulation volume and compressor operation load, thereby maintaining heating capacity.



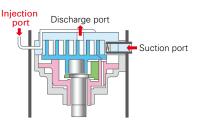
### A Heat Interchanger (HIC)

HIC cross-sectional view



The compressor is subjected to a heavy load when compressing liquid refrigerant, and the result is lower operation efficiency. The addition of HIC supports refrigerant heat exchange at two different pressure levels. The heat-exchange process transforms the injected liquid refrigerant into a gas liquid state, thereby decreasing the load on the compressor during the compression process.

### B Injection Compressor



Purpose: To increase the volume of refrigerant being circulated

Improves heating capacity at low outdoor temperatures, and enables higher indoor-air outlet temperature adjustment and higher defrost operation speed

Refrigerant passes from the HIC into the compressor through the injection port. Having two refrigerant inlets makes it possible to raise the volume of refrigerant being circulated when the outdoor temperature is low and at the start of heating operation.

### **PLZ-SHW** SERIES Indoor Unit **R32** R410A PLA-ZM100/125EA **Panel**

| Panel      | With Signal<br>Receiver | With 3D i-see<br>Sensor | With Wireless<br>Remote Controller | With Auto<br>Elevation |
|------------|-------------------------|-------------------------|------------------------------------|------------------------|
| PLP-6EA    |                         |                         |                                    |                        |
| PLP-6EAL   | ✓                       |                         |                                    |                        |
| PLP-6EAE   |                         | <b>√</b>                |                                    |                        |
| PLP-6EALE  | ✓                       | <b>✓</b>                |                                    |                        |
| PLP-6EAJ   | ✓                       |                         |                                    | ✓                      |
| PLP-6EAJE  | ✓                       | ✓                       |                                    | ✓                      |
| PLP-6EALM  | ✓                       |                         | ✓                                  |                        |
| PLP-6EALME | ✓                       | ✓                       | ✓                                  |                        |





(R410A)



**Outdoor Unit** 

PUHZ-SHW112VHA(-BS) PUHZ-SHW112/140YHA(-BS)















Enclosed in PLP-6EALME





































































| i-see<br>Sensor |  |
|-----------------|--|
| Optional        |  |
|                 |  |





























| уре       |  |                                 |        |                   | Inverter Heat Pump       |                   |
|-----------|--|---------------------------------|--------|-------------------|--------------------------|-------------------|
| ndoor Uni |  |                                 |        |                   | M100EA                   | PLA-ZM125EA       |
| Outdoor U |  |                                 |        | PUHZ-SHW112VHA    | PUHZ-SHW112YHA           | PUHZ-SHW140YHA    |
| efrigeran |  |                                 |        |                   | R410A*1                  |                   |
|           | Source                                 |                                 |        |                   | Outdoor power supply     |                   |
|           | Outdoor (V/Phase/H                     |                                 |        | 230 / 1 / 50      | 400 / 3 / 50             | 400 / 3 / 50      |
| ooling    | Capacity                               | Rated                           | kW     | 10.0              | 10.0                     | 12.5              |
|           |  | Min - Max                       | kW     | 4.9 - 11.4        | 4.9 - 11.4               | 5.5 - 14.0        |
|           | Total Input                            | Rated                           | kW     | 2.857             | 2.857                    | 5.000             |
|           | EER                                    |                                 |        | -                 | -                        | 2.50              |
|           | EEL Rank                               |                                 |        | _                 | -                        | -                 |
|           | Design Load                            |                                 | kW     | 10.0              | 10.0                     | -                 |
|           | Annual Electricity Co                  | onsumption*2                    | kWh/a  | 633               | 633                      | -                 |
|           | SEER*4                                 |                                 |        | 5.5               | 5.5                      | -                 |
|           |  | Energy Efficiency Class         |        | А                 | A                        | -                 |
|           | Capacity                               | Rated                           | kW     | 11.2              | 11.2                     | 14.0              |
| verage    |  | Min - Max                       | kW     | 4.5 - 14.0        | 4.5 - 14.0               | 5.0 - 16.0        |
| eason)    | Total Input                            | Rated                           | kW     | 2.667             | 2.667                    | 4.000             |
|           | COP                                    |                                 |        | -                 | -                        | 3.50              |
|           |  | EEL Rank                        |        | -                 | -                        | -                 |
|           | Design Load                            | •                               | kW     | 12.7              | 12.7                     | _                 |
|           | Declared Capacity                      | at reference design temperature | kW     | 11.2 (-10°C)      | 11.2 (-10°C)             | _                 |
|           |  | at bivalent temperature         | kW     | 11.2 (-7°C)       | 11.2 (-7°C)              | _                 |
|           |  | at operation limit temperature  | kW     | 9.3 (-25°C)       | 9.3 (-25°C)              | -                 |
|           | Back Up Heating Capacity kW            |                                 | kW     | 1.5               | 1.5                      | _                 |
|           | Annual Electricity Consumption*2 kWh/a |                                 | 4420   | 4420              | _                        |                   |
|           | SCOP*4                                 |                                 |        | 4.0               | 4.0                      | -                 |
|           | Energy Efficiency Class                |                                 |        | Α+                | A+                       | -                 |
| erating   | Current (max)                          |                                 | Α      | 35.5              | 13.5                     | 13.5              |
| loor      | Input                                  | Rated                           | kW     | 0.07              | 0.07                     | 0.08              |
| it        | Operating Current (max)                |                                 | Α      | 0.47              | 0.47                     | 0.52              |
|           | Dimensions <panel>  H × W × D</panel>  |                                 | mm     |                   | 298-840-840 <40-950-950> |                   |
|           | Weight <panel></panel>                 | 1                               | kg     | 26 <5>            | 26 <5>                   | 26 <5>            |
|           | Air Volume [Lo-Mi2-Mi1-Hi]             |                                 | m³/min | 19 - 22 - 25 - 28 | 19 - 22 - 25 - 28        | 21 - 24 - 26 - 29 |
|           | Sound Level (SPL) [L                   | o-Mi2-Mi1-Hi]                   | dB(A)  | 31 - 34 - 37 - 40 | 31 - 34 - 37 - 40        | 33 - 36 - 39 - 41 |
|           | Sound Level (PWL)                      |                                 | dB(A)  | 61                | 61                       | 62                |
| tdoor     | Dimensions                             | $H \times W \times D$           | mm     |                   | 1350 - 950 - 330 (+30)   |                   |
| it        | Weight                                 | '                               | kg     | 120               | 134                      | 134               |
|           | Air Volume                             | Cooling                         | m³/min | 100               | 100                      | 100               |
|           |  | Heating                         | m³/min | 100               | 100                      | 100               |
|           | Sound Level (SPL)                      | Cooling                         | dB(A)  | 51                | 51                       | 51                |
|           |  | Heating                         | dB(A)  | 52                | 52                       | 52                |
|           | Sound Level (PWL)                      | Cooling                         | dB(A)  | 69                | 69                       | 69                |
|           | Operating Current (n                   |                                 | Α      | 35                | 13                       | 13                |
|           | Breaker Size                           | -                               | Α      | 40                | 16                       | 16                |
|           | Diameter                               | Liquid / Gas                    | mm     | 9.52 / 15.88      | 9.52 / 15.88             | 9.52 / 15.88      |
|           | Max. Length                            | Out-In                          | m      | 75                | 75                       | 75                |
|           | Max. Height                            | Out-In                          | m      | 30                | 30                       | 30                |
|           | d Operating Range                      | Cooling*3                       | °C     | -15 ~ +46         | -15 ~ +46                | -15 ~ +46         |
| Outdoor]  |  | Heating                         | °C     | -25 ~ +21         | -25 ~ +21                | -25 ~ +21         |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
\*2 Energy consumption based on standard test results. Actual energy consumption based on standard test results.
\*3 Optional air protection guide is required where ambient temperature is lower than –5°C.
\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

### **PLZ-SHW** SERIES





















### **Panel**

PLA-M100/125EA

| Panel      | With Signal<br>Receiver | With 3D i-see<br>Sensor | With Wireless<br>Remote Controller | With Auto<br>Elevation |
|------------|-------------------------|-------------------------|------------------------------------|------------------------|
| PLP-6EA    |                         |                         |                                    |                        |
| PLP-6EAL   | ✓                       |                         |                                    |                        |
| PLP-6EAE   |                         | <b>~</b>                |                                    |                        |
| PLP-6EALE  | ✓                       | <b>~</b>                |                                    |                        |
| PLP-6EAJ   | <b>✓</b>                |                         |                                    | ✓                      |
| PLP-6EAJE  | <b>✓</b>                | <b>&gt;</b>             |                                    | <b>✓</b>               |
| PLP-6EALM  | <b>✓</b>                |                         | ✓                                  |                        |
| PLP-6EALME | 1                       | 1                       | <b>√</b>                           |                        |

### **Outdoor Unit**

### (R410A)



PUHZ-SHW112VHA(-BS) PUHZ-SHW112/140YHA(-BS)

### Remote Controller







\*optional



\*optional



































































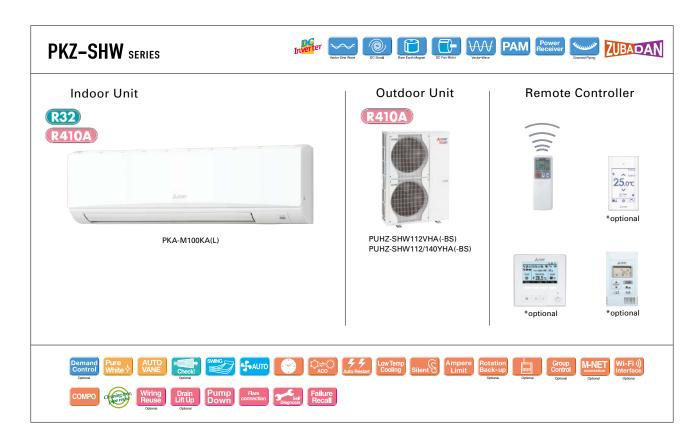
| ре              |                                 |                                 |                     |                          | Inverter Heat Pump          |                   |
|-----------------|---------------------------------|---------------------------------|---------------------|--------------------------|-----------------------------|-------------------|
| ndoor Ur        | it                              |                                 |                     | PLA-M                    | 100EA                       | PLA-M125EA        |
| Outdoor I       | Jnit                            |                                 |                     | PUHZ-SHW112VHA           | PUHZ-SHW112YHA              | PUHZ-SHW140YHA    |
| Refrigera       | nt                              |                                 |                     |                          | R410A*1                     |                   |
| ower            | Source                          |                                 |                     |                          | Outdoor power supply        |                   |
| Supply          | Outdoor (V/Phase/Hz)            |                                 |                     | 230 / 1 / 50             | 400 / 3 / 50                | 400 / 3 / 50      |
| Cooling         | Capacity                        | Rated                           | kW                  | 10.0                     | 10.0                        | 12.5              |
|                 |                                 | Min - Max                       | kW                  | 4.9 - 11.4               | 4.9 - 11.4                  | 5.5 - 14.0        |
|                 | Total Input                     | Rated                           | kW                  | 2.940                    | 2.940                       | 5.000             |
|                 | EER                             |                                 |                     | -                        | -                           | 2.50              |
|                 |                                 | EEL Rank                        |                     | -                        | -                           | -                 |
|                 | Design Load                     |                                 | kW                  | 10.0                     | 10.0                        | _                 |
|                 | Annual Electricity Co           | onsumption*2                    | kWh/a               | 661                      | 661                         | _                 |
|                 | SEER*4                          |                                 |                     | 5.3                      | 5.3                         | _                 |
|                 |                                 | Energy Efficiency Class         |                     | A                        | A                           | _                 |
| leating         | Capacity                        | Rated                           | kW                  | 11.2                     | 11.2                        | 14.0              |
| Average         |                                 | Min - Max                       | kW                  | 4.5 - 14.0               | 4.5 - 14.0                  | 5.0 - 16.0        |
| Season)         | Total Input                     | Rated                           | kW                  | 2.793                    | 2.793                       | 4.000             |
|                 | COP                             | -                               |                     | -                        | -                           | 3.50              |
|                 |                                 | EEL Rank                        |                     | _                        | -                           |                   |
|                 | Design Load                     |                                 | kW                  | 12.7                     | 12.7                        | _                 |
|                 | Declared Capacity               | at reference design temperature | kW                  | 11.2 (-10°C)             | 11.2 (-10°C)                | _                 |
|                 |                                 | at bivalent temperature         | kW                  | 11.2 (-7°C)              | 11.2 (-7°C)                 | _                 |
|                 |                                 | at operation limit temperature  | kW                  | 9.3 (-25°C)              | 9.3 (-25°C)                 |                   |
|                 | Back Up Heating Cap             |                                 | kW                  | 1.5                      | 1.5                         | _                 |
|                 |                                 |                                 | kWh/a               | 4445                     | 4445                        | _                 |
|                 | SCOP*4  Energy Efficiency Class |                                 | KVVIIJU             | 4.0                      | 4.0                         |                   |
|                 |                                 |                                 |                     | A+                       | A+                          |                   |
| neratin         | g Current (max)                 | Energy Emolency Glass           | Α                   | 35.5                     | 13.5                        | 13.7              |
| ndoor           | Input                           | Rated                           | kW                  | 0.07                     | 0.07                        | 0.08              |
| Jnit            | Operating Current (r            | -                               | A                   | 0.46                     | 0.46                        | 0.66              |
|                 | Dimensions <panel></panel>      |                                 | mm                  | 298-840-840 <40-950-950> |                             |                   |
|                 | Weight <panel></panel>          | I I V VV X D                    | kg                  | 24 <5>                   | 24 <5>                      | 26 <5>            |
|                 | Air Volume [Lo-Mi2-N            | Ai1-Hil                         | m³/min              | 19 - 23 - 26 - 29        | 24 <5><br>19 - 23 - 26 - 29 | 21 - 25 - 28 - 31 |
|                 | Sound Level (SPL) [L            |                                 | dB(A)               | 31 - 34 - 37 - 40        | 31 - 34 - 37 - 40           | 33 - 37 - 41 - 44 |
|                 | Sound Level (PWL)               |                                 | dB(A)               | 61                       | 61                          | 65                |
| Outdoor         | Dimensions                      | $H \times W \times D$           | mm                  | UI                       | 1350 - 950 - 330 (+30)      | ບວ                |
| Jutaoor<br>Jnit | Weight                          | I I V VV X D                    | kg                  | 120                      | 1350 - 950 - 330 (+30)      | 134               |
| -               | Air Volume                      | Cooling                         | m³/min              | 100                      | 100                         | 134               |
|                 | All volume                      | Heating                         | m <sup>3</sup> /min | 100                      | 100                         | 100               |
|                 | Sound Level (SPL)               | <u> </u>                        | dB(A)               | 51                       | 51                          | 51                |
|                 | Sound Level (SPL)               | Cooling                         | dB(A)               | 52                       | 51                          | 52                |
|                 | Cound Lavel (D'4")              | Heating                         |                     | -                        | -                           |                   |
|                 | Sound Level (PWL)               | Cooling                         | dB(A)               | 69                       | 69                          | 69                |
|                 | Operating Current (max)         |                                 |                     | 35                       | 13                          | 13                |
|                 | Breaker Size                    | In the                          | Α                   | 40                       | 16                          | 16                |
| xt.<br>Piping   | Diameter                        | Liquid / Gas                    | mm                  | 9.52 / 15.88             | 9.52 / 15.88                | 9.52 / 15.88      |
| iping           | Max. Length                     | Out-In                          | m                   | 75                       | 75                          | 75                |
|                 | Max. Height                     | Out-In                          | m                   | 30                       | 30                          | 30                |
| Juaranto        | ed Operating Range              | Cooling*3                       | °C                  | −15 ~ +46                | −15 ~ +46                   | -15 ~ +46         |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
\*2 Energy consumption based on standard test results. Actual energy consumption based on standard test results.
\*3 Optional air protection guide is required where ambient temperature is lower than –5°C.
\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.



| Гуре                |                          |                                 |        | Inverter He              |                          |  |  |
|---------------------|--------------------------|---------------------------------|--------|--------------------------|--------------------------|--|--|
| ndoor Un            |                          |                                 |        | PEAD-M1                  |                          |  |  |
| outdoor l           |                          |                                 |        | PUHZ-SHW112VHA(-BS)      | PUHZ-SHW112YHA(-BS)      |  |  |
|                     | efrigerant               |                                 |        | R410A*1                  |                          |  |  |
| ower                | Source                   |                                 |        | Outdoor power supply     |                          |  |  |
| upply               | Outdoor (V/Phase/H       | -                               |        | VHA:230 / Single / 50,   |                          |  |  |
| cooling             | Capacity                 | Rated                           | kW     | 10.0                     | 10.0                     |  |  |
|                     |                          | Min - Max                       | kW     | 4.9 - 11.4               | 4.9 - 11.4               |  |  |
|                     | Total Input              | Rated                           | kW     | 2.924 (2.904)            | 2.924 (2.904)            |  |  |
|                     | EER                      |                                 |        | -                        |                          |  |  |
|                     |                          | EEL Rank                        |        | -                        |                          |  |  |
|                     | Design Load              |                                 | kW     | 10.0                     | 10.0                     |  |  |
|                     | Annual Electricity Co    | onsumption*2                    | kWh/a  | 729 (714)                | 729 (714)                |  |  |
|                     | SEER*4                   |                                 |        | 4.8 (4.9)                | 4.8 (4.9)                |  |  |
|                     |                          | Energy Efficiency Class         |        | В                        | В                        |  |  |
| eating              | Capacity                 | Rated                           | kW     | 11.2                     | 11.2                     |  |  |
| (Average<br>Season) |                          | Min - Max                       | kW     | 4.5 - 14.0               | 4.5 - 14.0               |  |  |
| 043011)             | Total Input              | Rated                           | kW     | 3.103                    | 3.103                    |  |  |
|                     | COP                      |                                 |        | -                        |                          |  |  |
|                     |                          | EEL Rank                        |        | -                        |                          |  |  |
|                     | Design Load              |                                 | kW     | 12.7                     | 12.7                     |  |  |
|                     | Declared Capacity        | at reference design temperature | kW     | 11.2                     | 11.2                     |  |  |
|                     |                          | at bivalent temperature         | kW     | 11.2                     | 11.2                     |  |  |
|                     |                          | at operation limit temperature  | kW     | 9.4                      | 9.4                      |  |  |
|                     | Back Up Heating Capacity |                                 | kW     | 1.5                      | 1.5                      |  |  |
|                     |                          |                                 | kWh/a  | 4664                     | 4664                     |  |  |
|                     | SCOP*4                   |                                 |        | 3.8                      | 3.8                      |  |  |
|                     | Energy Efficiency Class  |                                 |        | A                        | A                        |  |  |
| peratin             | g Current (max)          |                                 | Α      | 37.7                     | 15.7                     |  |  |
| door                | Input [Cooling / Heating | ng] Rated                       | kW     | 0.25 (0.23) / 0.23       | 0.25 (0.23) / 0.23       |  |  |
| nit                 | Operating Current (max)  |                                 | Α      | 2.65                     | 2.65                     |  |  |
|                     | Dimensions               | $H \times W \times D$           | mm     | 250 - 1400 - 732         | 250 - 1400 - 732         |  |  |
|                     | Weight                   | ·                               | kg     | 41 (40)                  | 41 (40)                  |  |  |
|                     | Air Volume [Lo-Mid-H     | Hi]                             | m³/min | 24.0 - 29.0 - 34.0       | 24.0 - 29.0 - 34.0       |  |  |
|                     | External Static Press    | sure                            | Pa     | 35 / 50 / 70 / 100 / 150 | 35 / 50 / 70 / 100 / 150 |  |  |
|                     | Sound Level (SPL) [L     | o-Mid-Hi]                       | dB(A)  | 29 - 34 - 38             | 29 - 34 - 38             |  |  |
|                     | Sound Level (PWL)        |                                 | dB(A)  | 61                       | 61                       |  |  |
|                     | Dimensions               | H × W × D                       | mm     | 1350 - 950 - 330 (+30)   | 1350 - 950 - 330 (+30)   |  |  |
| nit                 | Weight                   |                                 | kg     | 120                      | 134                      |  |  |
|                     | Air Volume               | Cooling                         | m³/min | 100.0                    | 100.0                    |  |  |
|                     |                          | Heating                         | m³/min | 100.0                    | 100.0                    |  |  |
|                     | Sound Level (SPL)        | Cooling                         | dB(A)  | 51                       | 51                       |  |  |
|                     |                          | Heating                         | dB(A)  | 52                       | 52                       |  |  |
|                     | Sound Level (PWL)        | Cooling                         | dB(A)  | 69                       | 69                       |  |  |
|                     | Operating Current (n     | nax)                            | Α      | 35.0                     | 13.0                     |  |  |
|                     | Breaker Size             |                                 | Α      | 40                       | 16                       |  |  |
| ĸt.                 | Diameter                 | Liquid / Gas                    | mm     | 9.52 / 15.88             | 9.52 / 15.88             |  |  |
| iping               | Max. Length              | Out-In                          | m      | 75                       | 75                       |  |  |
|                     | Max. Height              | Out-In                          | m      | 30                       | 30                       |  |  |
| iuarante            | ed Operating Range       | Cooling*3                       | °C     | -15 ~ +46                | -15 ~ +46                |  |  |
| Outdoor]            |                          | Heating                         | °C     | -25 ~ +21                | -25 ~ +21                |  |  |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
\*3 Optional air protection guide is required where ambient temperature is lower than -5°C.
\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.



| Туре         |  |                                 |         | Inverter Heat Pump     |                      |  |
|--------------|--|---------------------------------|---------|------------------------|----------------------|--|
| ndoor Un     | it                                       |                                 |         | PKA-M1                 | 00KA(L)              |  |
| Outdoor l    | Jnit                                     |                                 |         | PUHZ-SHW112VHA(-BS)    | PUHZ-SHW112YHA(-BS)  |  |
| Refrigerant  |  |                                 |         | R410A*1                |                      |  |
| ower         | Source                                   |                                 |         | Outdoor power supply   |                      |  |
| Supply       | Outdoor (V/Phase/H                       | lz)                             |         | VHA:230 / Single / 50, | YHA:400 / Three / 50 |  |
| Cooling      | Capacity                                 | Rated                           | kW      | 10.0                   | 10.0                 |  |
| _            |  | Min - Max                       | kW      | 4.9 - 11.4             | 4.9 - 11.4           |  |
|              | Total Input                              | Rated                           | kW      | 2.924                  | 2.924                |  |
|              | Design Load                              |                                 | kW      | 10.0                   | 10.0                 |  |
|              | Annual Electricity Co                    | onsumption*2                    | kWh/a   | 673                    | 673                  |  |
|              | SEER*4                                   |                                 |         | 5.2                    | 5.2                  |  |
|              |  | Energy Efficiency Class         |         | A                      | A                    |  |
| leating      | Capacity                                 | Rated                           | kW      | 11.2                   | 11.2                 |  |
| Average      |  | Min - Max                       | kW      | 4.5 - 14.0             | 4.5 - 14.0           |  |
|              | Total Input                              | Rated                           | kW      | 3.103                  | 3.103                |  |
|              | Design Load                              | 1.000                           | kW      | 12.7                   | 12.7                 |  |
|              | Declared Capacity                        | at reference design temperature | kW      | 11.2                   | 11.2                 |  |
|              | Deciared Capacity                        | at bivalent temperature         | kW      | 11.2                   | 11.2                 |  |
|              |  | at operation limit temperature  | kW      | 9.4                    | 9.4                  |  |
|              | 1. |                                 | kW      | 1.5                    | 1.5                  |  |
|              | Annual Electricity Consumption*2 kWh/a   |                                 |         |                        |                      |  |
|              | SCOP*4                                   |                                 | KVVII/a | 4664                   | 4664                 |  |
|              | SCOP                                     | Energy Efficiency Class         |         | 3.8                    | 3.8                  |  |
|              | 0  | Energy Emiciency Class          |         | A                      | A                    |  |
|              | g Current (max)                          | n : 1                           | Α       | 35.6                   | 13.6                 |  |
| idoor<br>nit | Input                                    | Rated                           | kW      | 0.08                   | 0.08                 |  |
|              | Operating Current (max)                  |                                 | Α       | 0.57 0.57              |                      |  |
|              |  |                                 | mm      | 365 - 11               |                      |  |
|              | Weight <panel></panel>                   |                                 | kg      | 21                     | 21                   |  |
|              | Air Volume [Lo-Mid-Hi]                   |                                 | m³/min  | 20 - 23 - 26           | 20 - 23 - 26         |  |
|              | Sound Level (SPL) [L                     | .o-Mid-Hi]                      | dB(A)   | 41 - 45 - 49           | 41 - 45 - 49         |  |
|              | Sound Level (PWL)                        |                                 | dB(A)   | 65                     | 65                   |  |
| utdoor       | Dimensions                               | H × W × D                       | mm      | 1350 - 950 - 330 (+30) |                      |  |
| Jnit         | Weight                                   |                                 | kg      | 120                    | 134                  |  |
|              | Air Volume                               | Cooling                         | m³/min  | 100.0                  | 100.0                |  |
|              |  | Heating                         | m³/min  | 100.0                  | 100.0                |  |
|              | Sound Level (SPL)                        | Cooling                         | dB(A)   | 51                     | 51                   |  |
|              |  | Heating                         | dB(A)   | 52                     | 52                   |  |
|              | Sound Level (PWL)                        | Cooling                         | dB(A)   | 69                     | 69                   |  |
|              | Operating Current (n                     | nax)                            | Α       | 35.0                   | 13.0                 |  |
|              | Breaker Size                             |                                 | Α       | 40                     | 16                   |  |
| xt.          | Diameter                                 | Liquid / Gas                    | mm      | 9.52 / 15.88           | 9.52 / 15.88         |  |
| iping        | Max. Length                              | Out-In                          | m       | 75                     | 75                   |  |
|              | Max. Height                              | Out-In                          | m       | 30                     | 30                   |  |
| Guarante     | ed Operating Range                       | Cooling*3                       | °C      | -15 ~ +46              | -15 ~ +46            |  |
| Outdoor]     | Heating                                  |                                 | °C      | -25 ~ +21              | -25 ~ +21            |  |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
\*3 Optional air protection guide is required where ambient temperature is lower than -5°C.
\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

# MXZ-VAHZ SERIES

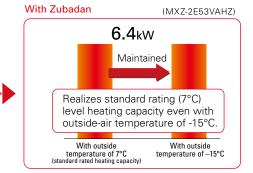
New hyper-heating MXZ allows you to create an oasis of comfort throughout your home and office in the rooms you use most, any time of the year.



### Standard rated heating capacity is maintained even when the outside-air temperature drops to -15°C.

Maintains high capacity output even when outside-air temperature is low.

(MXZ-2D53VA2) **6.4**kW Our conventional model was not able to maintain standard Falls 3.0kW rated heating capacity, making it hard to provide Capacity decreased due to warming in case of low outdoor-air temperature low outside-air temperatures. With outside temperature of –15°C With outside temperature of 7°C (standard rated heating capacity)



### Can operate at outside-air temperature of -25°C

- 1. Incorporated key parts resistant to cold of up to -25°C after rigorous selection.
- 2. Printed circuit board-core of the air conditioner—is coated on both sides to protect it in harsh environments.

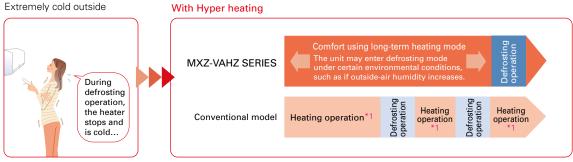
### Freeze-prevention heater standard equipment

Prevents capacity loss and operation from stopping due to drain water freezing.



### Continuous heating for long periods

Wasteful defrosting operation suppressed to enable more comfortable long-term continuous heating.

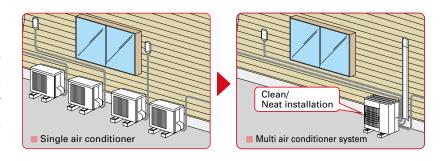


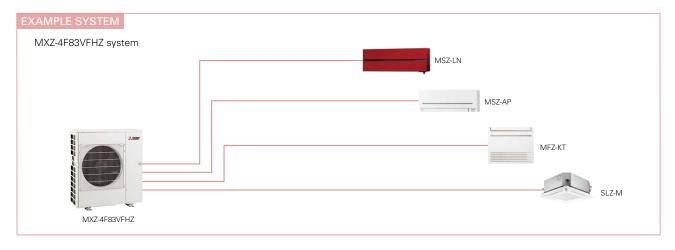
<sup>\*1:</sup> Conventional model performs continuous heating approximately 30min up to a maximum of 90min.

### One outdoor unit supports multiple indoor units.

With MXZ-VAHZ, one outdoor unit can cool and heat up to six rooms. They can be installed neatly in sites with limited space such as condominium balconies.

\*Please note that cooling and heating modes cannot be run simultaneously in different rooms.





### Freedom of combinations in cold region greatly enhanced

The variety of indoor unit connection options in cold regions, restricted until now, has been greatly increased. Increased design freedom.





 $\verb§+1: P series cannot be connect with MXZ-4E83VAHZ when ampere limit adjustment function is operated.$ 

### MXZ-VAHZ SERIES















**R32** 



MXZ-4F83VFHZ

MXZ-2F53VFHZ





MXZ-4E83VAHZ

-10 ~ +46

-10 ~ +46



MXZ-2E53VAHZ

| Туре       |                          |                                  |        |                                | Inverter H           | eat Pump               |                     |  |
|------------|--------------------------|----------------------------------|--------|--------------------------------|----------------------|------------------------|---------------------|--|
| Indoor Un  | it                       |                                  |        | Please refer to *4 *5          |                      |                        |                     |  |
| Outdoor U  |                          |                                  |        | MXZ-2F53VFHZ                   | MXZ-4F83VFHZ         | MXZ-2E53VAHZ           | MXZ-4E83VAHZ        |  |
| Refrigerar |                          |                                  |        |                                | 2*6                  |                        | 10A*1               |  |
| ower       | wer Source               |                                  |        | Outdoor power supply           |                      |                        |                     |  |
|            |                          |                                  |        | 220 - 230 - 240V / Single / 50 |                      |                        |                     |  |
| ooling     | Capacity                 | Rated                            | kW     | 5.3                            | 8.3                  | 5.3                    | 8.3                 |  |
|            |                          | Min - Max                        | kW     | 1.1 - 6.0                      | 3.5 - 9.2            | 1.1 - 6.0              | 3.5 - 9.2           |  |
|            | Total Input              | Rated                            | kW     | 1.29                           | 1.90                 | 1.29                   | 2.25                |  |
|            | Design Load              | •                                | kW     | 5.3                            | 8.3                  | 5.3                    | 8.3                 |  |
|            | Annual Electricity Co    | onsumption*2                     | kWh/a  | 274                            | 398                  | 282                    | 447                 |  |
|            | SEER*4,*7                | •                                |        | 6.8                            | 7.3                  | 6.5                    | 6.5                 |  |
|            |                          | Energy Efficiency Class*4        |        | A++                            | A++                  | A++                    | A++                 |  |
| eating     | Capacity                 | Rated (7°C)                      | kW     | 6.4                            | 9.0                  | 6.4                    | 9.0                 |  |
| verage     |                          | Rated (-7°C)                     | kW     | 6.4                            | 9.0                  | 6.4                    | 9.0                 |  |
| eason)     |                          | Rated (-15°C)                    | kW     | 6.4                            | 9.0                  | 6.4                    | 9.0                 |  |
|            |                          | Min - Max                        | kW     | 1.0 - 7.0                      | 3.5 - 11.6           | 1.0 - 7.0              | 3.5 - 11.6          |  |
|            | Total Input              | Rated                            | kW     | 1.36                           | 1.70                 | 1.36                   | 1.90                |  |
|            | Design Load              |                                  |        | 6.4                            | 10.1                 | 6.4                    | 10.1                |  |
|            |                          | at reference design temperature  | kW     | 6.9                            | 10.6                 | 6.4                    | 9.0                 |  |
|            |                          | at bivalent temperature          | kW     | 7.4                            | 11.5                 | 6.4                    | 9.0                 |  |
|            |                          | at operation limit temperature   | kW     | 4.1                            | 5.7                  | 2.4                    | 2.5                 |  |
|            | Back Up Heating Capacity |                                  | kW     | 0.0                            | 0.0                  | 0.0                    | 1.1                 |  |
|            | Annual Electricity Co    | Annual Electricity Consumption*2 |        | 2172                           | 3286                 | 2165                   | 3446                |  |
|            | SCOP*7                   |                                  |        | 4.1                            | 4.3                  | 4.1                    | 4.1                 |  |
|            |                          | Energy Efficiency Class*4        |        | A+                             | A+                   | A+                     | A+                  |  |
| ах. Оре    | erating Current (Indoo   | or+Outdoor)                      | Α      | 15.6                           | 28.0                 | 15.6                   | 28.0                |  |
| utdoor     | Dimensions               | $H \times W \times D$            | mm     | 796 × 950 × 330                | 1048 × 950 × 330     | 796 × 950 × 330        | 1048 × 950 × 330    |  |
| nit        | Weight                   | •                                | kg     | 61                             | 86                   | 61                     | 87                  |  |
|            | Air Volume               | Cooling                          | m³/min | 43                             | 63                   | 47.0                   | 63.0                |  |
|            |                          | Heating                          | m³/min | 41                             | 77                   | 47.0                   | 77.0                |  |
|            | Sound Level (SPL)        | Cooling                          | dB(A)  | 45                             | 55                   | 45                     | 53                  |  |
|            |                          | Heating                          | dB(A)  | 47                             | 57                   | 47                     | 57                  |  |
|            | Sound Level (PWL)        | Cooling                          | dB(A)  | 55                             | 66                   | 55                     | 66                  |  |
|            | Breaker Size             |                                  | Α      | 16                             | 30                   | 16                     | 30                  |  |
| rt.        | Diameter                 | Liquid / Gas                     | mm     | 6.35 × 2 / 9.52 × 2            | 6.35×4/12.7×1+9.52×3 | 6.35 × 2 / 9.52 × 2    | 6.35×4/12.7×1+9.52× |  |
| ping       | Total Piping Length      | (max)                            | m      | 30                             | 70                   | 30                     | 70                  |  |
|            | Each Indoor Unit Pip     | ing Length (max)                 | m      | 20                             | 25                   | 20                     | 25                  |  |
|            | Max. Height              |                                  | m      | 15                             | 15                   | 15 (10) * <sup>3</sup> | 15 (10) *3          |  |
|            | Chargeless Length        |                                  | m      | 30                             | 70                   | 20                     | 25                  |  |
|            |                          |                                  |        |                                |                      |                        | +                   |  |

 $-10 \sim +46$ 

-25 ~ +24

-10 ~ +46

-25 ~ +24

**Guaranteed Operating Range** 

Cooling

Heating

<sup>##</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of COz, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

\*2 Energy consumption based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.

\*3 If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10m.

\*4 EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.

MX2-2F53VFHZ MSZ-LN18WG2 + MSZ-LN3SVG2
MX2-4F83VFHZ MSZ-LN18WG2 + MSZ-LN25VG2 + MSZ-LN25VG2
MX2-2E53VAHZ MSZ-EF18VE + MSZ-EF18VE + MSZ-EF2VE + MSZ-EF2VE

\*5 Indoor unit compatibility table is shown on page 115-116.

\*6 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of COz, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

\*7 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

To ensure full capacity in cold and snowy regions...

# 3 Important Points to Remember When Installing the Outdoor Unit



\* RAC/PAC (inc. Air to Water) /MXZ

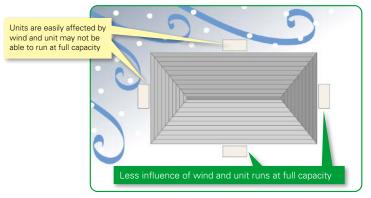
Wind and snow can significantly reduce capacity.

Be sure to check the infomation below and install the outdoor unit correctly.



### Installation Location

Be aware of the prevailing wind direction in winter and install the outdoor unit where it is as sheltered as possible.

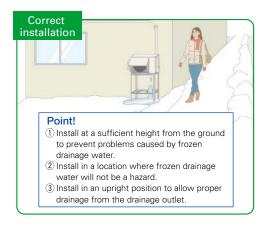


2

### Measures for Drainage of Water

### Case 1: Unit is installed close to passage (walkway)

Do not install the unit close to passage as drainage water from the unit may freeze and cause a slipping hazard.

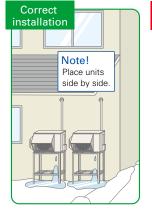


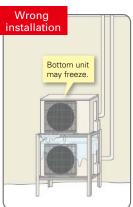




### Case 2: Multiple units are installed

Do not install units on top of one another as it may cause frozen drainage water on the bottom unit





### Unit is installed on the ground

To avoid the adverse effects of snow and frozen drainage water, install the unit on a stand to ensure a sufficient height from the ground.

[RAC/PAC/MXZ]



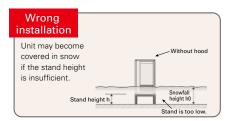
- 1) Install at a position/height to prevent the unit being buried in snow \*1 and the adverse effects of frozen
- 2 Install so as to avoid the effects of snow or snowdrift.
- 3 Install so as to avoid the damage from falling snow or icicles.
  - \*\* Illistand a neight above the nightest shorthan arguments \*\*2 Even for correct installations, dripping drainage water may form an icicle which needs to be cleared away regularly to prevent a blocked drainage outlet.





Use a stand to add sufficient height to protect the unit heat exchanger from snow and prevent icicles forming during defrost operation.

### Correct installation Minimum height (h) Air intake ~ snow hood (side panel) should be higher than the highest snowfall depth (h0) +20cm h0



### Install snow protection hood as necessary

[RAC/PAC/MXZ]



### Necessity of accessories (drain socket & centralised drain pan, stand, snow protection hood, base heater)

|  | Snowy region   | Cold region                  |  |  |  |
|--|--|------------------------------|--|--|--|
|  | Countermeasures for snow                                       | Countermeasures for freezing | Remarks  |  |  |
| Drain socket,<br>Centralised drain pan | Not used   | Not used                     | Prevents freezing  |  |  |
| Stand                                  | Needed   | Needed                       | [RAC/PAC/MXZ]  1. Install so as to prevent the unit being buried in snow (at a height greater than the highest snowfall depth). Be sure that the stand does not obstruct drainage.  2. Install so as to prevent damage to the unit due to frozen drainage water (icicles).   |  |  |
| Snow<br>protection<br>hood             | Needed *When the installation position is subject to snowfall. | _                            | Prevents heat exchanger from being covered in snow.     Prevents snow accumulating inside the air duct.  |  |  |
| Base heater                            | _  | Needed                       | [RAC/PAC/MXZ] Outdoor units equipped with a heater for cold regions are those with an "H" in the model name. For the cold-climate zone, use of a unit with a heater is strongly recommended. Even for the moderate-climate zone use of a unit with a heater is recommended for regions subject to high humidity in winter. |  |  |

### **⚠** CAUTION

### About disposal of drainage water

When the unit is installed in cold or snowy regions:

Drainage water may freeze in the drain socket/hose and prevent the fan from rotating.



Do not attach a drain socket packaged as an accessory to the unit.

\* In the case that fitting a drain socket is absolutely necessary, steps must be taken so that the drainage water does not freeze For more information, please consult Mitsubishi Electric or one of its dealers/resellers.

| Arrangement for      |
|----------------------|
| snow protection hood |

[RAC/PAC/MXZ]

Separately sold parts are available for some models.

Please consult Mitsubishi Electric or one of its dealers/resellers at the time of purchase for details.



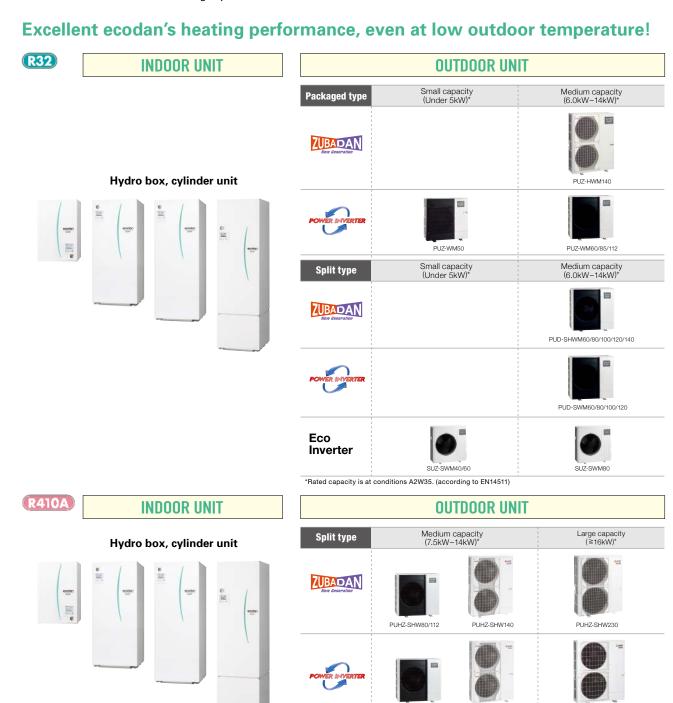








### **SELECTION** Choose the series that best matches the building layout.



|                          | *Rated capa | acity is at conditions A2W35. (according to EN145 | 511)          |
|--------------------------|-------------|---|---------------|
| Other ATW-related system | Mr.SLIM+    | PUMY + ecodan                                     | ecodan geodan |
|                          | R410A       | R410A   | R32           |
|                          |             |   |               |
|                          | PUHZ-FRP71  | PUMY-P112/125/140                                 | EHGT17D-YM9ED |

PUH7-SW75/100

PLIH7-SW120

PUH7-SW160/200

### **New Eco-design Directive**

### What is the ErP Directive?

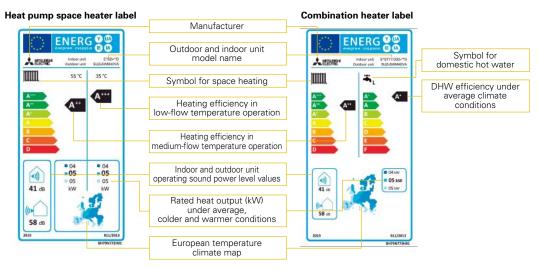
The Eco-design Directive for Energy-related Products (ErP Directive) established a framework to set mandatory standards for ErPs sold in the European Union (EU). The ErP Directive introduces new energy efficiency ratings across various product categories. It affects how products such as computers, vacuum cleaners, boilers and even windows are classified in terms of environmental performance. Labelling regulations that apply to our ATW heat pumps came into effect from September 26, 2015, and then revised from September 26, 2019.

### New energy label and measurements

Under directive 2009/125/EC, ATW heat pumps of up to 70kW are required to show their heating efficiency on the energy label. The purpose of the energy label is to inform customers about the energy efficiency of a heating unit. The efficiency for space heating is ranked from A+++ to D (from September 2019). In the case of domestic hot water, it is from A+ to F (from September 2019).

### Product label

This label is for individual heating units, such as an ecodan heat pump. Typically, the space heater label is used for ecodan systems with a hydro box, and the combination heater label is used for ecodan systems with a cylinder unit.



These labels are delivered with all ecodan outdoor units.

### What is the package label?

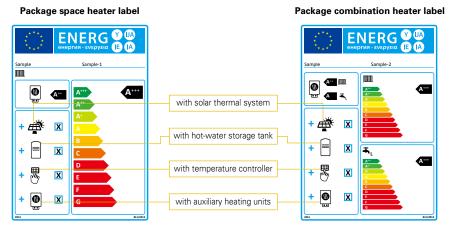
A heating system can use several energy-related products, such as a controller or solar thermal system. Therefore, a label showing the efficiency of the total heating system is required. The category range is defined from  $A^{+++}$  to G.

Creating the package label is the responsibility of the installers and distributors. A useful tool on the Mitsubishi Electric website is available to easily create the labels for ecodan products and controllers.

http://erp.mitsubishielectric.eu/erp/options

### Package label

This label is for heating systems that use several energy-related products, such as a controller or a solar thermal system.



Customised package labels including ecodan heat pumps and the FTC6 controller can be created on the Mitsubishi Electric website.

### **New R32 Eco Inverter Line-up**

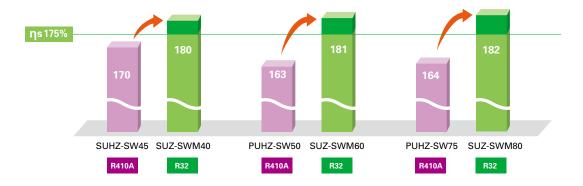
### **Energy Efficient and Environmentally Friendly Heating**

- Wide variety of product line with R32 refrigerant
- More energy efficient than conventional eco inverter models



### **High Performance**

All models have achieved the "RANK A+++" for SCOP at low temperature.



### **Low Noise**

Compared with conventional outdoor unit, New R32 eco inverter achieved lower noise level, assuring the flexibility of installation in dense residential areas.

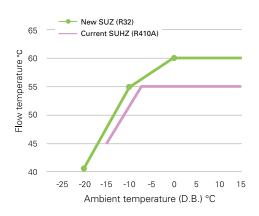


\*Compared SUZ-SWM40/60/80VA with SUHZ-SW45VA/PUHZ-SW50VKA/PUHZ-SW75VHA

### \*Rated condition (According to EN12102)

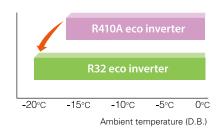
### 60°C Flow Temperature

Along with it's increased lower operating range the New R32 range is capable of delivering a higher flow rate of 60°C, 5°C higher than the conventional model.



### **Guaranteed Operating Range Expansion**

Guaranteed heating operating range is extended to -20°C.



### Reducing Refrigerant Amount

# <a href="R410A">CO2</a> equivalent emission t-CO2 eq CO2 equivalent emission less than 1/3\* depending on the model! 1 Model name SUHZ-SWM40VA Refrigerant amount 1.3kg 1.2kg GWP 2088 (R410A) 675 (R32) t-CO2 eq 2.714 0.810

<sup>\*</sup>Source: IPCC 4th Assessment Report, global warming potential (GWP) 100-year value. Comparison of 2088 (R410A) and 675 (R32).

### **Dedicated Heat Pump for Residence**

## reddot award 2018

### Stylish and Compact

### The Stylish Design and Compact Size Harmonises Residential Application

- Simple and elegant design by rounding left and right corners of the unit.
- Concealing the fan by matching the panel and the grille in dark colour.
- Unified shape and safety by setting the fan whole backwards and matching the grille on the same level of the front panel.
- Wider lineup with environmental-friendly R32 refrigerant.

# 1,020mm 480mm 1,050mm

### **High Performance**

### **New Compressor**

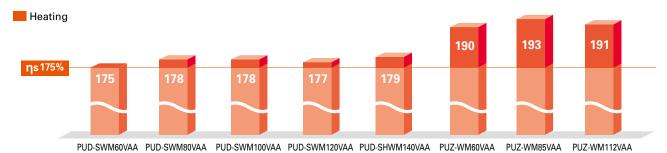


- Compact
- High performance
- Flash injection\*
- \*ZUBADAN (SHWM) only



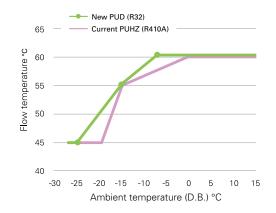
ErP Lot 1 Compliant with Highest Seasonal Space Heating Energy Efficiency Class A+++

All models have achieved the "RANK A+++" for SCOP at low temperature.



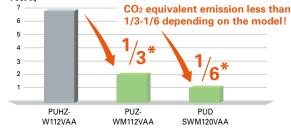
### 60°C Flow Temperature at Low Ambient Temperature

60°C max flow temprature can be maintained up to Ambient -7°C. (For PUD-S(H)WM models)



### Reducing Refrigerant Amount

### <R410A vs R32> CO2 equivalent emission t-CO2 eq



| Model name         | PUHZ-W112VAA | PUZ-WM112VAA | PUD-SWM120VAA |
|--------------------|--------------|--------------|---------------|
| Refrigerant amount | 3.3kg        | 3.0kg        | 1.6kg         |
| GWP                | 2088 (R410A) | 675 (R32)    | 675 (R32)     |
| t-CO2 eq           | 6.890        | 2.025        | 1.080         |

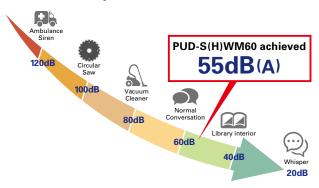
<sup>\*</sup>Source: IPCC 4th Assessment Report, global warming potential (GWP) 100-year value

### Compact with Silence

### Noise Reduction-10dB(A)

Mitsubishi Electric heat pumps are designed to give you highly efficient and eco-friendly heating with 10dB(A) less in PWL. Compared with conventional models.

\* Rated condition (According to EN12102)



### **Blowing Air**

### To Reduce Fan Noise

- Optimising fan position
- Optimising bell mouth shape
- Bigger fan diameter



### **Enclosing Noise**

### **Shutting Out Noise from Compressor**

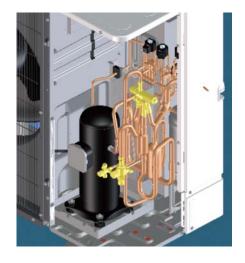
• The structure of double enclosing

Primary: enclosing a compressor (the structure is patented.) Secondary: enclosing machine room.



### **Avoiding Vibration and Resonance**

- Dedicated soft rubber mount for the compressor to avoid vibration.
- Optimising piping structure to avoid vibration and resonance.



### New Control for Eco-friendly Heating

### **Defrost Improvement**

Conventional models often switch to defrost operation even when there is not much frost on outdoor units. By defecting frost more precisely, it is possible to prevent frequent on/off for defrosting and to give you more comfort.



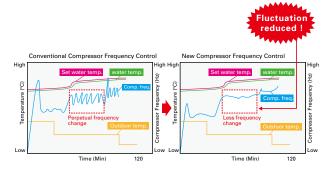
\*Comparison between prior PUHZ-SHW-AA model and new PUD-S(H)WM-AA model.

Maximum number of operational hours at our Company's laboratory (external temperature –15°C).

Hours of continuous operation may differ depending on external temperature conditions.

### **New Compressor Frequency Control**

By reducing frequency changes (from 17 to 4 times per hour), hunting is prevented. Reducing fluctuation improves efficiency and prolongs compressor life.



# D generation Indoor Unit

# All-in-one Compact Indoor Unit

- All-in-one: Key functional components are incorporated
- Compact cylinder unit: 1,400~2,050mm in height
- Compact hydro box: Only 530×360mm footprint
- Easy installation: Factory fitted pressure relief valve
- Easy service: Relevant parts are located at the front of the unit for easy maintenance
- Easy transport: Handles attached on front and back (cylinder unit)





# Line-up

ecodan's line-up has many types of indoor units to satisfy diverse customers' needs, requests and local regulations.

It includes various capacity units, with/without booster heater, with/without an expansion vessel, etc.

In addition, a reversible hydro box and a reversible cylinder unit are available.

# Hydro box Cylinder unit Available options

- Packaged or Split type
- With/without booster heater
- With/without expansion vessel
- Cylinder unit has an integrated 170L/200L/300L stainless steel tank
- Hydro box is control ready for domestic hot water with a stand-alone tank (locally supplied)

# Reversible Models

(for heating/cooling)

# Perfect Comfort in Winter and Summer Time, Thanks to Our Reversible Models.

Reversible models are now available for both hydro box and cylinder units (Both for split type and cylinder unit for packaged type).

The new reversible cylinder is now able to produce cold water for cooling use and can alternatively produce domestic hot water in summer time.



# Easy Installation and Low Maintenance

# Simple Piping Arrangement

All water piping is aligned at the rear side of the unit for easy connection and neat finish.



# Built-in Drain Pan for Reversible Cylinder Models

Reversible models now include a built-in space saving drain pan and the drain socket is positioned at the back of the unit. With use of the adjuster bolt, the outlet height can be higher than 50mm, allowing 5m drainage.



# Hydro Box Piping Arrangement Improvement

Through structural innovation related to the space around the pipes, the area where the spanner can be moved has been increased, thus improving pipe work and enabling it to be completed smoothly.





# Minimum Additional Water Required

In average/warmer conditions, minimum additional water is required for outdoor unit. If there is enough water amount inside water pipe, radiator, or underfloor heating no buffer tank is required.

\*Refer to the indoor unit installation manual for specific outdoor unit models.

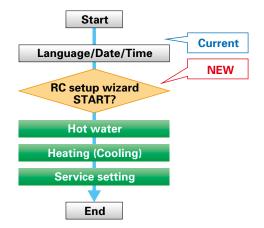
# Easy Adjustment

Adjust bolt capable of 50mm expansion for easy installation on uneven surfaces.



# **Initial Setting Wizard**

In addition to language, date and time, you can set up hot water and heating/cooling operation, pump speed, flow rate range initial setting much simpler than previous models.



# **Operation Data Monitoring**

Time, operation mode, flow/return/tank temperature, can be displayed on main remote controller.

Sample display of monitoring setting

|                       |      | 26 F | eb 2019      | 10:00 |
|-----------------------|------|------|--------------|-------|
| 10:00 - 🄆             |      |      | THW5<br>54°C |       |
| 9:55 🔆                |      |      |              |       |
| 9:50 <del>-</del> ×;- | 48°C | 48°C | 54°C         | 20L   |
| 9:45 끏                | 60°C | 56°C | 54°C         | 15L   |
| 9:40 👗                | 59°C | 55°C | 52°C         | 15L   |
| i                     |      |      |              | (1/5) |

# 2 Zone Kit

 You can select from 3 types of pump operations, 1. Fixed speed mode, 2. Fixed pressure mode, 3. Energy saving mode, depending on your preference.



- All-in-one kit: Key functional components are incorporated in 2 zone kit.
- Easy installation: G1 screw type flexipiping to avoid brazing.
- Compact size: Just to fit on the top of cylinder unit, also wall mountable.

# **High Performance**

# Improved Efficiency

With additional thermistor (THW5A),  $\eta wh$  [%] rating is improved by more than 40% compared to previous C generation 200L models allowing 170L and 200L to achieve A+, the highest possible domestic hot water efficiency rank.

Excellent DHW efficiency

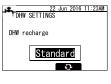


|              | 170L    | 200L    | 300L    |  |
|--------------|---------|---------|---------|--|
|              | ղwh [%] | ղwh [%] | ղwh [%] |  |
| Conventional | -       | 96~104  | -       |  |
| New          | 120~148 | 135~159 | 118~128 |  |
| Load Profile | L       | L       | XL      |  |
| DHW Rank     | A+      | A+      | A/A+    |  |

# Thermistor Position of Cylinder

The thermistor position is now selectable allowing the unit to accommodate for different water demands in order to maximise the efficiency of the unit for any size of household or application.

Using two thermistors equipped with all sizes of tanks, you can now select the DHW recharge amount from two options (Standard/Large). It helps accommodate for different water demands in order to maximise the efficiency of the unit for any size of household or application. This mode can be selected from main remote controller.





# Unique Technology of ecodan

# **Auto Adaptation**

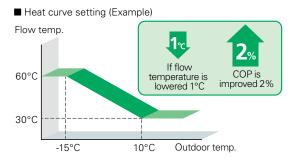
# Maximise Energy Savings While Retaining Comfort at All Times

Settings can be performed using an SD card.

\*SD logo is a trademark of SD-3C, LLC

Regarding the relation of flow temperature and unit performance, a 1°C drop in the flow temperature improves the coefficient of performance (COP) of the ATW system by 2%. This means that energy savings are dramatically affected by controlling the flow temperature in the system.

In a conventional system controller, the flow temperature is determined based on the pre-set heat curve depending on the actual outdoor temperature. However, this requires a complicated setting to achieve the optimal heat curve.



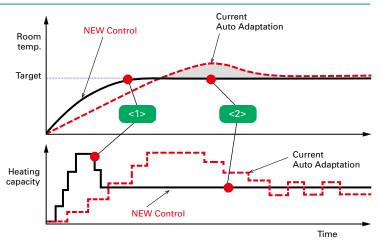
# **Auto Adaptation Improvement**

Mitsubishi Electric's Auto Adaptation Function Automatically Tracks Changes in the Actual Room Temperature and Outdoor Temperature and Adjusts the Flow Temperatures Accordingly.

Aiming to realise further comfort and energy savings, Mitsubishi Electric has already introduced a revolutionary new controller. Auto Adaptation function measures the room temperature and outdoor temperature, and then calculates the required heating capacity for the room. Simply stated, the flow temperature is automatically controlled according to the required heating capacity, while optimal room temperature is maintained at all times, ensuring the appropriate heating capacity and preventing energy from being wasted.

Furthermore, by estimating future changes in room temperature, the system works to prevent unnecessary increases and decreases in the flow temperature. Accordingly, Auto Adaptation maximises both comfort and energy savings without the need for complicated settings.

For Mitsubishi Electric ecodan, by introducing improved control logic, we acheived faster heating and more energy saving.

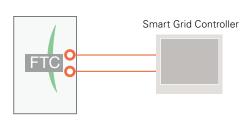


- <1> Fast heating with improved accuracy in learning building heat load
- <2> Energy saving by avoiding over heating and capacity fluctuation with better control response, i.e. control interval and resolution

# **Smart Grid Ready Function**

In recent years renewable energy generation has become popular. However, this rapid growing causes the problem of supply and demand gap of electricity. The aim of "SG Ready" is to make the electricity demand response more flexible by creating a uniform interface for the smart grid integration of heat pumps. Air-to-Water units need to be able to change the operation pattern when the signal is received from the Smart Grid Controller

New ecodan Cylinder, Hydro box and FTC have been modified to communicate with Smart Grid Controller. The communication protocol is based on "SG Ready" label regulation. (Version 1.1; gültig ab 01.01.2013)



| Pattern | Input 1 | Input 2 | Operation                |    |
|---------|---------|---------|--------------------------|----|
| 1       | OFF     | OFF     | Normal operation         |    |
| 2       | ON      | OFF     | Switch ON recommendation |    |
| 3       | OFF     | ON      | Switch OFF command       | SG |
| 4       | ON      | ON      | Switch ON command        |    |

### Pattern 1: Normal operation

When there is no signal from the Smart Grid Controller, DHW and Heating operate according to user settings.

### Pattern 2: Switch ON recommendation

When set to the "Switch ON" recommendation, the target temperature of DHW is increased a specified amount and the heating "Thermo ON" condition range is extended.

### Pattern 3: Switch OFF command

When the "Switch OFF" command is received, both DHW and Heating are turned off.

### Pattern 4: Switch ON command

When the "Switch ON" command is received, the target temperature of DHW is increased to the maximum target temperature and Heating continues.

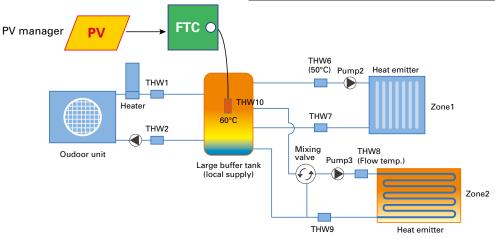
# Improved Smart Grid Ready

SG ready icon on main remote controller indicates that SG ready is active and its setting can be easily operated with main remote controller. Improved SG ready function enables you to choose the target temperature in unit of 1°C. Also, when PV manager is interlocked with ecodan and ecodan receivers its signal, heat is stored as much as possible while heat pump and/or electric heater running.

Heat storage in large buffer tank will be made available for zone2 as well when peak cut signal is on. As long as a mixing valve keeps its control, zone2 flow temperature is maintained.



| Pattern | Operation                                  | R/C indication |
|---------|--|----------------|
| 1       | Normal operation                           |                |
| 2       | Switch ON recommendation                   |                |
| 3       | Switch OFF command                         | SG             |
| 4       | Switch ON command (while PV is generating) |                |





# Intelligent Hybrid Control (boiler interlock)

# An Existing Boiler Can Be Used for Extra Heating Capacity in an Efficient Way

\*SD logo is a trademark of SD-3C, LLC

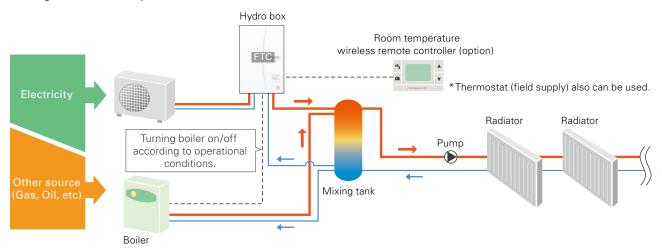
The flexibility of ecodan's intelligent control allows the system to be combined with the boiler currently in use. Additionally, this control can judge which heating source to use either ecodan or the existing boiler, based on various conditions\*.

In the event of one heating unit not working due to some unforeseen problem, the other heating system can be used as a back-up, thereby preventing the heating system operation from stopping completely.

\*Please see below "Heat source switchover".

# Intelligent system combining a boiler with ecodan

■ Intelligent boiler interlock system



<sup>\*</sup> Items such as a mixing tank, and pump are not included and need to be purchased locally.

# Heat source switchover - Choose appropriate system based on needs

# 4 types of heat source switchover logic

- ① Switchover based on actual outdoor temperature
  - Heat source switchover occurs when the outdoor temperature drops below a pre-set temperature.
- 2 Switchover based on running cost
  - Heat source switchover occurs by judging optimal operation based on running cost.
    - \*Pre-registration of the energy price of electricity, and gas or oil per 1kWh is necessary.
- ③ Switchover based on CO<sub>2</sub> emission level
  - Heat source switchover occurs to minimise CO<sub>2</sub> emission.
    - \*Pre-registration of CO<sub>2</sub> emission amount from electricity and gas or oil is necessary.
- ④ Switchover can also be activated via external input
  - For example, the peak cut signal from electric power company.

# ettings can b an SD card.

# 2 Zone Control (for heating/cooling)

# Improved Simultaneous Control of Two Different Zones

Using ecodan, it is possible to control two different flow temperatures, thereby managing two different heating load requirements. The system can adjust and maintain two flow temperatures when different temperatures are required for different rooms; for example, controlling a flow temperature of 40°C for the bedroom radiators and another flow temperature of 30°C for the living room floor heating

Moreover, mixing valve control is advanced for improving zone 2 comfort by using heat storage in buffer tank. Also, new controller monitors the temperature inside buffer tank and prioritizes using the heat inside the tank to avoid frequent on/off operation when using 2 zone control.

# ■ Two temperature zones Wireless remote controller 2 zone kit with locally supplied components as thermistor 40°C Hydro box Pump Mixing control Flow switch FTC Mixing Pump Mixing tank/header Flow switch Underfloor heating

\*Items such as a mixing tank, mixing valve flow switch and pumps are not included and need to be purchased locally.

# Multiple Unit Control

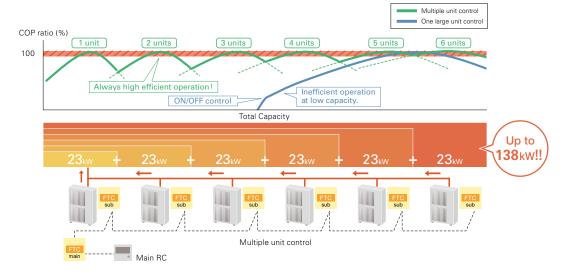
# Connect up to 6 Units - Automatic Control of Multiple Units for Bigger Capacity and Better Efficiency

A maximum of 6 units\* can be configured according to the heating/cooling load of the building. The most efficient number of operating units is determined automatically based on heating/cooling load. This enables ecodan to provide optimal room temperature control, and thus superior comfort for room occupants. Also incorporated is a rotation function that enables each unit to run for an equal time period.

If one of the units malfunctions when using the Multiple Unit Control, another unit can be automatically operated for back-up, thereby preventing the system operation from stopping completely.

\*Only same models (same capacity) can be used.

■ Multiple unit control



# Remote Controllers

# Smart User-friendly Controller with Stylish Design

### Main remote controller

- Large screen and backlight for excellent visibility, even in dark environment
- Multi-language support (supports 15 languages)
- Can be removed from main unit and installed in a remote location (up to 500m)
- Quick reading of operation data (7.5 times faster than previous model)
- Wide range of convenient functions in response to user demand Function settings
  - Energy monitoring
  - Two-zone control (cooling and heating)
  - Two separate schedules
  - Summer time setting
  - Built-in room temperature sensors

  - Hybrid control (boiler interlock)
- Floor drying mode
- Weekly timer
- Holiday mode
- Legionella prevention
- Error codes





Receiver



PAR-WT50R-E (Option) Wireless remote controller

# Wireless remote controller (optional)

- Built-in room temperature sensor; easy to place in the best position to detect room temperature
- Wiring work eliminated
- Simple design that is easy to operate
- Remote control from any room without needing to choose an installation location
- Backlight and big buttons that are easy to operate
- Domestic hot water boost and cancellation
- Simplified holiday mode

# **Energy Monitoring**

# View Electricity Consumption and Heat Output on the Remote Controller

\*SD logo is a trademark of SD-3C, LLC

Every end user can now easily check the energy data of the ecodan heat pump.

### Other features

- Daily, monthly and yearly data are stored and can be displayed using the main remote controller.
- External power meter and heat meter can be connected for accurate measurement.
- SD card is also available for storing data.
- \*Using pre-set values on the main remote controller, estimated energy consumption/output can be shown without external power and a heat meter.

Depending on operating condition and system configuration, there is some possibility to show different data from the reality.

\*This function is available depending on the version of the outdoor unit model.

# Summer Time Setting

# Easy Adjustment for **Summer Time**

Just switch the summer time mode 'on' using the main remote controller and the clock in the main remote controller is adjusted to summer time hours

This function can release the end user from clock setting tasks.





# Two Separate Schedules

# Pre-setting Two Different Schedules for Winter and Summer Seasons

an SD card

Settings can be

Two different schedule settings are available for use via the main

These schedules can be pre-set and changed depending on the season. For example, from November to March, space heating and domestic hot water are used; however, during warm months such as from April to October, only domestic hot water is used.



# Easy Commissioning

# Pump for Primary Water Circuit\* Speed Setting Possible Using ecodan's Main Remote Controller

Even when the system is running, pump output can be set to one of five different settings using the main remote controller.

The person commissioning the system can adjust this speed much more easily.

\*Speed setting of pump for domestic hot water is not available through the main remote controller when the system is running.



# Flow sensor newly incorporated

The flow sensor is key for monitoring energy output and can also be used to detect flow error as well.

- Flow rate can be checked on the main remote controller.
- Flow rate can also be shown as graphs using the SD card tool.



# Run indoor unit\* without outdoor unit

During installation or situations such as an outdoor unit malfunction, the indoor unit can be operated using a heater. While using this mode, flow and tank temperature are selectable.

Fixing and maintenance of the outdoor unit can be done without stopping heating and domestic hot water operation\*.

- \*Models with electric heater only.
- \*When the indoor unit operation stops, please check all settings after the outdoor unit is connected.

# Settings can be performed using an SD card.

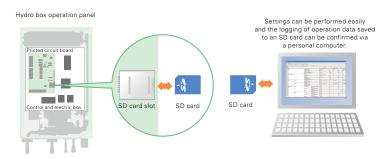
### \*SD logo is a trademark of SD-3C, LLC

# SD\* Card

# For Easier Settings and Data Logging

The initial setting for ecodan is now simpler than ever before. The special software enables the required initial settings to be saved to an SD card using a personal computer. The system set-up is as easy as moving the SD card from the computer to the SD card slot in the indoor unit. Compared to the previous procedure of inputting settings using the main controller at the installation site, a remarkable reduction in set-up time has been achieved. Thus, it is ideal for busy installers.

\*SD card function is only used at the time of installation.



# Items that can be pre-set

Simply copying pre-set data to an SD card,

the same settings can input into another unit using the SD card.

- Initial settings (time display, contact number, etc.)
- Heating settings
  - Auto adaptation
  - Heat curve
- Two different temperature zones (heating and cooling)
- Interlocked boiler operation settings
- Holiday mode settings
- Schedule timer settings (two separate schedules)
- Domestic hot water settings
- Legionella prevention settings

All items that are set by the main controller can be set via a personal computer.

# Data that can be stored

Operation data up to a month long can be stored on a single SD card

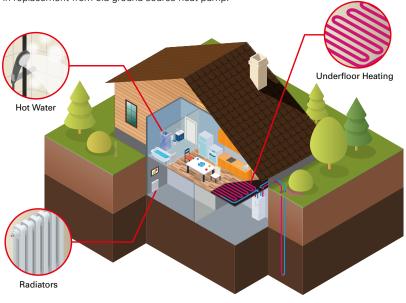
- Consumed electrical energy
- Delivered energy
- Flow rate
- Operation time
- Defrost time
- Actual temperature
- Room temperature
- Flow temperature
- Return temperature
- Domestic hot water temperature
- Outdoor temperature
- Error record
- Input signal
- Etc.

# ecodan geodan

# Excellent Performance with Mitsubishi Electric First Residential Ground Source Heat Pump

Ground source heat pump works best especially in replacement from old ground source heat pump.





# Performance / Function

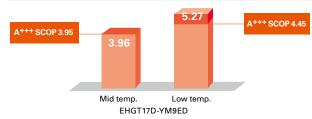
# **High Performance**

ErP Lot 1 Compliant with highest seasonal space heating energy efficiency class A+++.

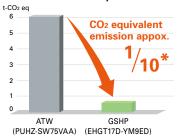


Low GWP refrigerant R32 contributes the reduction of CO<sub>2</sub> emission compared with conventional R410A refrigerant

# A<sup>+++</sup> Class Energy Efficiency



### <ATW vs GSHP> CO2 equivalent emission

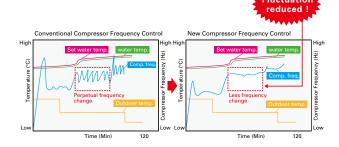


| Model<br>name         | PUHZ-<br>SW75VAA | EHGT17D-<br>YM9ED |  |  |
|-----------------------|------------------|-------------------|--|--|
| Refrigerant<br>amount | 3.0kg            | 0.9kg             |  |  |
| GWP                   | 2088<br>(R410A)  | 675<br>(R32)      |  |  |
| t-CO2 eq              | 6.264            | 0.608             |  |  |

<sup>\*</sup>Source: IPCC 4th Assessment Report, global warming potential (GWP) 100-year value. Comparison of 2088(R410A) and 675 (R32).

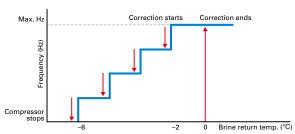
# **New Compressor Frequency Control**

By reducing frequency changes (from 17 to 4 times per hour), hunting is prevented. Reducing fluctuation improves efficiency and prolongs compressor life.



# **Borehole Protection Control**

When the unit detects low underground temperature, it automatically reduces the capacity by decreasing heat source collection in order to protect the borehole.



When the brine return temperature is below -8°C and brine outlet temperature is below -12°C, the unit operates only by booster heater. The correction tempeature can be changed by dip SW.

# Comfort with Silence

Mitsubishi Electric heat pumps are designed to give you highly efficient and eco-friendly heating with the lowest possible noise level. ecodan geodan achieved industry-leading low noise, 42dB(A)\*.



# Silencing Noise

The triple covering structure of the compressor unit greatly reduces sound level through noise absortion.

### 1st Cover

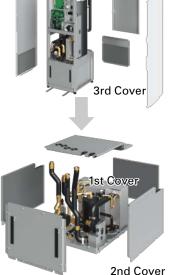
Compressor sound insulation box (with noise absorbing felt and damper)

# 2nd Cover

Module Box (with noise absorbing felt)

### 3rd Cover

Outside panel (with noise absorbing felt)



# **Avoiding Vibration Noise**

Rubber mounted stabilizer plate cushions the vibration noise of the compressor



# Easy Installation & Transportation

At only 1750mm, ecodan geodan is the class-leading compact unit on the market, making it the ideal solution for rooms and basements with a low ceiling height.



# **Easy Transportation**

Compressor module can be removed for easier installation and transportation. Once removed, the tank can be transported horizontally.



# Flexible Piping Work

Pipings on top are placed in a Zig-Zag shape. This enables easier installation without interrupting each piping work, especially in case of replacement.



# Easy Adjustment

Adjust bolt capable of 50mm expansion for easy installation even on uneven surfaces.



# Mr.SLIM+

# A Smart Air Conditioning and Hot Water Supply System Conceived from Eco-conscious Ideas

Mr. SLIM+ has a heat recovery function, which uses waste heat from air conditioners to heat water. Thanks to heat recovery, the Mr. SLIM+ model can achieve a COP of 7.0\*, resulting in intelligent systems with amazing efficiency.

\*Conditions for air-to-air cooling: Indoor 27°C (dry bulb), 19°C (wet bulb); Outdoor 35°C (dry bulb)

# 1 Unit, 2 Roles – Total Comfort Year-round

Air Conditioning and Hot Water Supply Matching the Needs of Each Room

# All-in-one outdoor unit (air conditioning, domestic hot water supply and hot water heating)

### Mr. SLIM for Air-to-Air

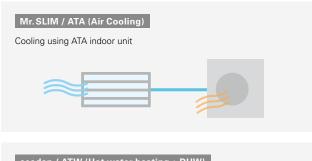
Mr. SLIM+ utilises a duct system that enables the air conditioning or heating of multiple rooms, and other indoor unit type systems that it is possible to fit to various applications.

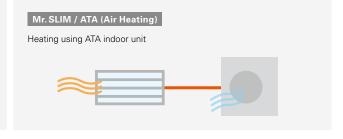
### ecodan for Air-to-Water

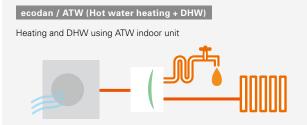
✓Domestic hot water (DHW) supply ✓Heating for multiple rooms



# **Various Operations**









# **Specifications**

| Indoor                       | unit              |  |   |   | PLA-ZM71EA        | PKA-M71KAL                              | PCA-M71KA       | PSA-RP71KA         | PEAD-M71JA                              | PEAD-M71JAL    |
|------------------------------|-------------------|--|---|---|-------------------|---|-----------------|--------------------|---|----------------|
| Outdoor unit                 |                   |  |   |   | PUHZ-FRP71VHA2    | PUHZ-FRP71VHA2                          | PUHZ-FRP71VHA2  | PUHZ-FRP71VHA2     | PUHZ-FRP71VHA2                          | PUHZ-FRP71VH   |
| Refrige                      | rant              |  |   |   |                   |   | R410            | )A*1               |   |                |
| ower s                       | supply            | Outdoor (V / P                         | hase / Hz)                              |   |                   |   | 230 / Sir       | ngle / 50          |   |                |
| Air-to-Air                   | Cooling           | Capacity                               | Rated                                   | kW  | 7.1               | 7.1                                     | 7.1             | 7.1                | 7.1                                     | 7.1            |
| ATA)                         |                   |  | Min-Max                                 | kW  | 3.3-8.1           | 3.3-8.1                                 | 3.3-8.1         | 3.3-8.1            | 3.3-8.1                                 | 3.3-8.1        |
|                              |                   | Total input                            | Rated                                   | kW  | 1.88              | 1.93                                    | 1.93            | 2.15               | 2.10                                    | 2.04           |
|                              |                   | EER                                    |   |   | 3.77              | 3.67                                    | 3.67            | 3.30               | 3.38                                    | 3.48           |
|                              |                   | Design load                            |   | kW  | 7.1               | 7.1                                     | 7.1             | 7.1                | 7.1                                     | 7.1            |
|                              |                   |  | city consumption *2                     | kWh/a   | 376               | 386                                     | 384             | 409                | 444                                     | 427            |
|                              |                   | SEER *4                                | , |   | 6.6               | 6.4                                     | 6.4             | 6.0                | 5.5                                     | 5.8            |
|                              |                   |  | Energy-efficiency class                 |   | A <sup>++</sup>   | A <sup>++</sup>                         | A <sup>++</sup> | A <sup>+</sup>     | A                                       | A <sup>+</sup> |
|                              | Heating           | Capacity                               | Rated                                   | kW  | 8.0               | 8.0                                     | 8.0             | 8.0                | 8.0                                     | 8.0            |
|                              | (average          | Gapasity                               | Min-Max                                 | kW  | 3.5-10.2          | 3.5-10.2                                | 3.5-10.2        | 3.5-10.2           | 3.5-10.2                                | 3.5-10.2       |
|                              | season)           | Total input                            | Rated                                   | kW  | 2.11              | 2.29                                    | 2.29            | 2.42               | 2.11                                    | 2.11           |
|                              |                   | COP                                    | Mateu                                   | KVV   | 3.80              | 3.50                                    | 3.50            | 3.30               | 3.79                                    | 3.79           |
|                              |                   |  |   | 134/  |                   |   | 4.7             | 4.7                |   | 4.9            |
|                              |                   | Design load                            |   | kW  | 4.7               | 4.7<br>4.7 (–10°C)                      | 4.7 (–10°C)     | 4.7<br>4.7 (–10°C) | 4.9                                     | 4.9 (-10°C)    |
|                              |                   | Declared capacity                      | at reference design temperature         |   | 4.7 (–10°C)       |   |                 |                    | 4.9 (–10°C)                             |                |
|                              |                   |  | at bivalent temperature                 | kW  | 4.7 (–10°C)       | 4.7 (–10°C)                             | 4.7 (–10°C)     | 4.7 (–10°C)        | 4.9 (–10°C)                             | 4.9 (-10°C)    |
|                              |                   |  | at operation limit temperature          | kW  | 3.5 (–20°C)       | 3.5 (–20°C)                             | 3.5 (–20°C)     | 3.5 (–20°C)        | 3.7 (–20°C)                             | 3.7 (-20°C)    |
|                              |                   | Back-up hear                           |   | kW  | 0                 | 0                                       | 0               | 0                  | 0                                       | 0              |
|                              |                   | Annual electricity consumption *2 kWh/ |   | kWh/a   | 1,509             | 1,564                                   | 1,556           | 1,699              | 1,791                                   | 1,791          |
|                              |                   | SCOP *4                                |   |   | 4.3               | 4.2                                     | 4.2             | 3.8                | 3.8                                     | 3.8            |
|                              |                   |  | Energy-efficiency class                 |   | A <sup>+</sup>    | A <sup>+</sup>                          | A <sup>+</sup>  | А                  | Α                                       | А              |
| r-to-Water                   | Nomina            | I flow rate (for I                     | heating)                                | L/min   |                   |   | 22.             | 90                 |   |                |
| TW)                          | Heating*5         | 3*5 A7W35                              | Capacity                                | kW  | 8.00              | 8.00                                    | 8.00            | 8.00               | 8.00                                    | 8.00           |
|                              |                   |  | Input                                   | kW  | 1.98              | 1.98                                    | 1.98            | 1.98               | 1.98                                    | 1.98           |
|                              |                   |  | COP                                     |   | 4.05              | 4.05                                    | 4.05            | 4.05               | 4.05                                    | 4.05           |
|                              |                   | A2W35                                  | Capacity                                | kW  | 7.50              | 7.50                                    | 7.50            | 7.50               | 7.50                                    | 7.50           |
|                              |                   |  | Input                                   | kW  | 2.67              | 2.67                                    | 2.67            | 2.67               | 2.67                                    | 2.67           |
|                              |                   |  | СОР                                     |   | 2.81              | 2.81                                    | 2.81            | 2.81               | 2.81                                    | 2.81           |
|                              | Heat              | W45                                    | Capacity (ATA cooling + ATW)            | kW  | 7.1+8.0           | 7.1+8.0                                 | 7.1+8.0         | 7.1+8.0            | 7.1+8.0                                 | 7.1+8.0        |
|                              |                   | У                                      | Input                                   | kW  | 1.90              | 1.93                                    | 1.95            | 2.02               | 2.15                                    | 2.13           |
|                              | (ATA<br>cooling & |  | COP                                     |   | 7.95              | 7.82                                    | 7.74            | 7.48               | 7.02                                    | 7.09           |
|                              | ATW) *6           | W55                                    | Capacity (ATA cooling + ATW)            | kW  | 7.1+9.0           | 7.1+9.0                                 | 7.1+9.0         | 7.1+9.0            | 7.1+9.0                                 | 7.1+9.0        |
|                              |                   |  | Input                                   | kW  | 2.97              | 3.00                                    | 3.02            | 3.09               | 3.22                                    | 3.20           |
|                              |                   |  | COP                                     |   | 5.42              | 5.37                                    | 5.33            | 5.21               | 5.00                                    | 5.03           |
|                              | AT\A/ ind         | door unit                              |   | 5.42 5.37 5.33 5.21 5.00 5.03  Cylinder unit or Hydro box (see previous page) |                   |   |                 |                    |   |                |
| Outdoo                       |                   | Dimensions                             | HxWxD                                   |   |                   | Суг                                     | 943-950-        |                    | ge/                                     |                |
| Julaoo                       | runit             |  | HXVVXD                                  | mm  | 70                | 70                                      |                 |                    | 70                                      | 70             |
|                              |                   | Weight                                 | l                                       | kg  | 73                | 73                                      | 73              | 73                 | 73                                      | 73             |
|                              |                   | Air volume                             | Cooling                                 | m³/min  | 50                | 50                                      | 50              | 50                 | 50                                      | 50             |
|                              |                   |  | Heating                                 | m³/min  | 50                | 50                                      | 50              | 50                 | 50                                      | 50             |
|                              |                   | Sound pressure                         | Cooling                                 | dB(A)   | 47                | 47                                      | 47              | 47                 | 47                                      | 47             |
|                              |                   | level (SPL)                            | Heat recovery                           | dB(A)   | 47                | 47                                      | 47              | 47                 | 47                                      | 47             |
|                              |                   |  | ATA Heating                             | dB(A)   | 49                | 49                                      | 49              | 49                 | 49                                      | 49             |
|                              |                   |  | ATW Heating                             | dB(A)   | 49                | 49                                      | 49              | 49                 | 49                                      | 49             |
|                              |                   | Sound power                            | Cooling                                 | dB(A)   | 67                | 67                                      | 67              | 67                 | 67                                      | 67             |
|                              |                   | level (PWL)                            | Heat recovery                           | dB(A)   | 67                | 67                                      | 67              | 67                 | 67                                      | 67             |
|                              |                   |  | ATA Heating                             | dB(A)   | 68                | 68                                      | 68              | 68                 | 68                                      | 68             |
|                              |                   |  | ATW Heating                             | dB(A)   | 68                | 68                                      | 68              | 68                 | 68                                      | 68             |
|                              |                   | Operating cur                          | _                                       | Α   | 19.0              | 19.0                                    | 19.0            | 19.0               | 19.0                                    | 19.0           |
|                              |                   |  |   | Α   | 25                | 25                                      | 25              | 25                 | 25                                      | 25             |
| xt.pipi                      | ng                | Diameter                               | Liquid/Gas                              | mm  | 9.52/15.88        | 9.52/15.88                              | 9.52/15.88      | 9.52/15.88         | 9.52/15.88                              | 9.52/15.88     |
| . p.p.                       | J                 | Max. length                            | Out-In                                  | m   | , , , , , , , , , | , | 30 (for ATA) +  |                    | , | 1, 10.00       |
|                              |                   | Max. height                            | Out-In                                  | m   | 20                | 20                                      | 20              | 20                 | 20                                      | 20             |
| 211022                       | tood and          | _                                      |   | °C  | -15~+46           | -15~+46                                 | -15~+46         | -15~+46            | _15~+46                                 | -15~+46        |
| Guaranteed oper<br>(outdoor) |                   | aung range                             | Cooling*3                               |   |                   |   |                 |                    |   |                |
|                              |                   |  | Heating                                 | ç   | <b>−20</b> ~+21   | <b>−20</b> ~+21                         | <b>−20</b> ~+21 | -20~+21            | <b>−20</b> ~+21                         | -20~+21        |
| outdoo                       |                   |  | ATW                                     | °C  | <b>−20</b> ~+35   | <b>−20</b> ~+35                         | <b>−20</b> ~+35 | -20~+35            | <b>−20</b> ~+35                         | -20~+35        |

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.
\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
\*3 Optional air protection guide is required where ambient temperature is lower than –5°C.
\*4 SEER/SCOP values are measured based on EN14825.
\*5 Air-to-Water values are measured based on EN14511 (Circulation pump input is not included.).
\*6 Conditions for Air-to-Air cooling: Indoor 27°C (dry bulb) /19°C (wet bulb); Outdoor 35°C (dry bulb).

# PUMY+ecodan

Air-to-Air and Air-to-Water Hybrid Multi Split System

# 1 Unit, 2 Roles - Total Comfort Year-round

Air Conditioning and Hot Water Supply Matching the Needs of Each Room

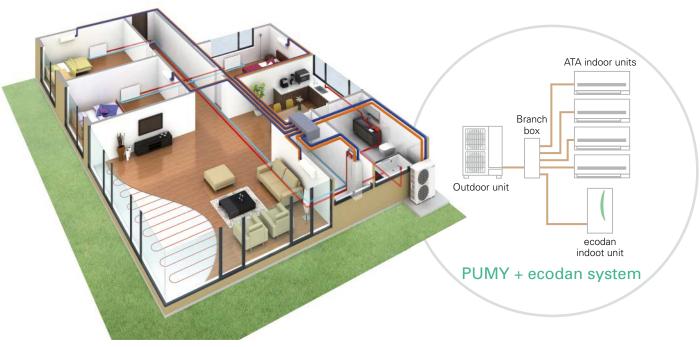
All-in-one outdoor unit (air conditioning, domestic hot water supply and hot water heating)

# **PUMY for Air-to-Air**

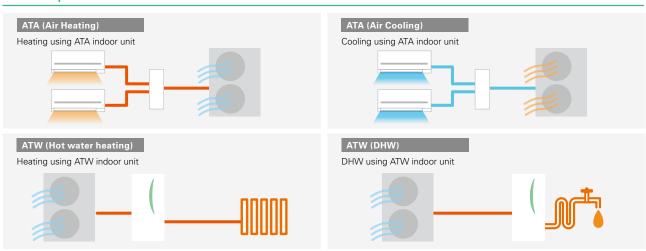
PUMY utilises various indoor units, enabling the air conditioning or heating of multiple rooms, and controls each unit individually.

# ecodan for Air-to-Water

✓Domestic hot water (DHW) supply
✓Heating for multiple rooms



# **Main Operation Patterns**



# **Optional Operation Patterns\* (simultaneous)**



# Usage Pattern All-in-one System Solution

# Summer 2-in-1 Operation

In summer ATA cooling and DHW are utilised. Keep your room comfortable with ATA cooling during high temperature daytime. Heat pump operates to heat up water stored in the DHW tank when ATA is not operated. The hot water can be utilised for shower and washing dishes during daytime.



# Spring & Autumn 2-in-1 Operation

In spring and autumn, ATA heating and DHW are utilised. ATA heating can warm up each room quickly during the low temperature morning and evening. Heat pump operates to heat up water stored in the DHW tank when ATA is not operated. The hot water can be utilised for shower and washing dishes during daytime.



# Winter ecodan

In winter ATW heating and DHW are utilised. ATW heating warms home all the day in severe cold weather. ATW heating stops temporarily only when the heat pump operates to heat up water stored in the DHW tank.



| Model name            |                                       |  |                            |                   |                  | PUMY-<br>P112VKM5(-BS)              | PUMY-<br>P125VKM5(-BS) | PUMY-<br>P140VKM5(-BS)                 | PUMY-<br>P112YKM(E)4(-BS) | PUMY-<br>P125YKM(E)4(-BS) | PUMY-<br>P140YKM(E)4(-BS) |               |
|-----------------------|---------------------------------------|--|----------------------------|-------------------|------------------|-------------------------------------|------------------------|--|---------------------------|---------------------------|---------------------------|---------------|
| Power suppl           | у                                     |  |                            |                   |                  | 1-phas                              | se 220 - 230 - 240\    | /, 50Hz                                |                           | se 380 - 400 - 415\       |                           |               |
| Air-to-Air            | Cooling                               | Capacity   |                            |                   | kW               | 12.5                                | 14.0                   | 15.5                                   | 12.5                      | 14.0                      | 15.5                      |               |
| (ATA)                 | (nominal)*1                           | Power input  |                            |                   | kW               | 2.79                                | 3.46                   | 4.52                                   | 2.79                      | 3.46                      | 4.52                      |               |
|                       |                                       | EER  |                            |                   |                  | 4.48                                | 4.05                   | 3.43                                   | 4.48                      | 4.05                      | 3.43                      |               |
|                       | Temp. range                           | Indoor temp.   |                            |                   | W.B.             |                                     |                        |  | 24°C                      |                           |                           |               |
|                       | of cooling                            | Outdoor temp.  | *2                         |                   | D.B.             |                                     | Т                      |  | 52°C                      | Т                         | 1                         |               |
|                       | Heating<br>(nominal)*1                | Capacity   |                            |                   | kW               | 14.0                                | 16.0                   | 18.0                                   | 14.0                      | 16.0                      | 18.0                      |               |
|                       | (nominal)**                           | Power input  |                            |                   | kW               | 3.04                                | 3.74                   | 4.47                                   | 3.04                      | 3.74                      | 4.47                      |               |
|                       | _                                     | COP  |                            |                   |                  | 4.61                                | 4.28                   | 4.03                                   | 4.61                      | 4.28                      | 4.03                      |               |
|                       | Temp. range of heating                | Indoor temp.   |                            |                   | W.B.             |                                     |                        |  | 27°C                      |                           |                           |               |
|                       |                                       | Outdoor temp.  |                            |                   | D.B.             |                                     |                        |  | 15°C                      |                           |                           |               |
| Air-to-Water<br>(ATW) |                                       | rate (for heatin   | <u> </u>                   |                   | L/min            |                                     |                        |  | 5.8                       |                           |                           |               |
|                       | Heating*3                             | A7W35  | Capacity                   |                   | kW               |                                     |                        |  | 2.5                       |                           |                           |               |
|                       |                                       |  | Power input                |                   | kW               |                                     |                        |  | 06                        |                           |                           |               |
|                       |                                       |  | СОР                        |                   |                  |                                     |                        |  | 08                        |                           |                           |               |
|                       |                                       | A2W35  | Capacity                   |                   | kW               | 10.0<br>3.50                        |                        |  |                           |                           |                           |               |
|                       |                                       |  | Power input                |                   | kW               |                                     |                        |  |                           |                           |                           |               |
|                       | 0                                     | COP  |                            |                   | - D D            |                                     |                        |  | 86                        |                           |                           |               |
|                       | Guaranteed operating                  | ATW Heating  |                            |                   | D.B.             | -20 - +21°C                         |                        |  |                           |                           |                           |               |
|                       | range                                 | ATA + ATW  | DHW<br>ATA heating + DI    | DA/               | D.B.             | D.B20 - +35°C                       |                        |  |                           |                           |                           |               |
|                       | _                                     |  |                            |                   |                  | 7 - +21°C                           |                        |  |                           |                           |                           |               |
|                       | Manianum O                            | ATA heating + ATW heating *4                               |                            |                   | D.B.             | −10 - +21°C<br>55                   |                        |  |                           |                           |                           |               |
| Outdoor               | Indoor unit                           | Maximum Outlet water temp.  Indoor unit ATA Total capacity |                            |                   |                  | 50 to 130% of outdoor unit capacity |                        |  |                           |                           |                           |               |
| unit                  | connectable                           | only Model   |                            |                   |                  | 15-100/8                            | 15-100/8               | 15-100/8                               | 15-100/8                  | 15-100/8                  | 15-100/8                  |               |
|                       |                                       |  | Quantity                   | Mixed system*12   |                  | 15-140*5/10                         | 15-140*5/10*6          | 15-140* <sup>5</sup> /10* <sup>6</sup> | 15-140*5/10               | 15-140*5/10*6             | 15-140*5/10*6             |               |
|                       |                                       | ATA + ATW<br>individual<br>operation                       | ATA + ATW Total capacity   |                   |                  |                                     |                        |  |                           | ST20C or EHSC) *          |                           |               |
|                       |                                       |  | dividual Model/Quantity    | Branch box system |                  | 15-100/8                            | 15-100/8               | 15-100/8                               | 15-100/8                  | 15-100/8                  | 15-100/8                  |               |
|                       |                                       |  |                            | Mixed system*12   |                  | 15-140* <sup>5</sup> /10            | 15-140*5/10*6          | 15-140*5/10*6                          | 15-140*5/10               | 15-140*5/10*6             | 15-140*5/10*6             |               |
|                       |                                       | ATA + ATW<br>simultaneous<br>operation                     | -                          |                   | IVIIXCU SYSTOIII |                                     | ,                      |  |                           |                           | ST20C or EHSC) *          |               |
|                       |                                       |  | simultaneous Model/Quantit |                   | ATA*12           |                                     | 15/1*8                 | 15-25/2*9                              | 15-42*11/3*10             | 15/1*8                    | 15-25/2*9                 | 15-42*11/3*10 |
|                       |                                       |  |                            | model, additivy   | ATW              |                                     | 15/1                   | 10 20/2                                |                           | C or EHSC) / 1            | 10 20/2                   | 10 42 /0      |
|                       | Sound pressu                          | ıre level (meası   | red in anechoic ro         |                   | dB <a></a>       | 49 / 51                             | 50 / 52                | 51 / 53                                | 49 / 51                   | 50 / 52                   | 51 / 53                   |               |
|                       |                                       |  | d in anechoic roor         |                   | dB <a></a>       | 69 / 71                             | 70 / 72                | 71 / 73                                | 69 / 71                   | 70 / 72                   | 71 / 73                   |               |
|                       |                                       | iping diameter   |                            | Liquid pipe       | mm               | 9.52 flare                          |                        |  |                           |                           | 1,                        |               |
|                       | " " " " " " " " " " " " " " " " " " " | . 5  |                            | Gas pipe          | mm               |                                     |                        |  | flare                     |                           |                           |               |
|                       | Fan                                   | Type x Quantit   | V                          |                   |                  |                                     |                        | Propelle                               | r fan × 2                 |                           |                           |               |
|                       |                                       | Airflow rate   | •                          |                   | m³/min           |                                     |                        | 1                                      | 10                        |                           |                           |               |
|                       |                                       |  |                            |                   | L/s              | 1,883                               |                        |  |                           |                           |                           |               |
|                       |                                       |  |                            |                   | cfm              | 3,884                               |                        |  |                           |                           |                           |               |
|                       |                                       | Motor output   |                            |                   | kW               |                                     |                        | 0.074                                  | + 0.074                   |                           |                           |               |
|                       | Compressor                            | Type × Quantit   | у                          |                   |                  |                                     |                        | Scroll hermetic                        | compressor x 1            |                           |                           |               |
|                       |                                       | Starting metho   | od                         |                   |                  |                                     |                        | Inve                                   | erter                     |                           |                           |               |
|                       |                                       | Motor output   |                            |                   | kW               | 2.9                                 | 3.5                    | 3.9                                    | 2.9                       | 3.5                       | 3.9                       |               |
|                       | External dime                         | ensions (H × W   | × D)                       |                   | mm               |                                     |                        | 1,338 × 1,05                           | 0 × 330 (+40)             |                           |                           |               |
|                       | Weight                                |  |                            |                   | kg               |                                     | 122                    |  | YI                        | (M: 125 / YKME: 1         | 36                        |               |

| į | v. |   |
|---|----|---|
| 3 |    | ı |

|         | Indoor            | Outdoor         | Piping length | Level difference |  |
|---------|-------------------|-----------------|---------------|------------------|--|
| Cooling | 27°C DB / 19°C WB | 35°C DB         | 7.5m          | 0m               |  |
| Heating | 20°C DB           | 7°C DB / 6°C WB | 7.5m          | 0m               |  |

- \*2 10 to 52°C D.B.: When connecting PKFY-P15/20/25VBM, PFFY-P20/25/32VKM, PFFY-P20/25/32VLE(R)M, PEFY-P\*VMA3 or M, S and P series indoor unit.
  \*3 In the case of ATW single connection. Input to circulation pump is not included.
  \*4 In the case of simultaneous operation of ATA heating and ATW heating, target flow temperature range is restricted to 45-55°C and when the ambient temp is under 7°C,
- the flow temp is lowered.
  \*5 Up to P100 when connecting via branch box.
- \*6 Up to 11 units when connecting via 2 branch boxes. \*7 Only one ecodan unit can be connected.

- "7 / Uniy one ecodan unit can be connected.

  \*8 Exceptionally, one MSZ-SF15VA or MSZ-AP15VF can be connected.

  \*9 Exceptionally, two MSZ-SF15VA or MSZ-AP15VF can be connected.

  \*10 Exceptionally, three MSZ-SF15VA or MSZ-AP15VF can be connected.

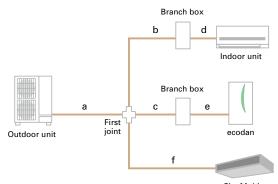
  \*11 In the case of City Multi connection, maxmum is P32.

  \*12 PKFY and PFFY series are not connectable.

# Piping specifications

| m   | 150*             | a+b+c+d+e+f                                |
|-----|------------------|--|
| m   | 80               | a+b+d or a+c+e                             |
| ''' | 85               | a+f  |
| m   | 55               | a+b+c                                      |
| m   | 95               | d+e  |
| m   | 30               | borcorf                                    |
| m   | 25               | d or e                                     |
| m   | 50 / 40          |  |
|     | m<br>m<br>m<br>m | m 80<br>85<br>m 55<br>m 95<br>m 30<br>m 25 |





# PUMY+ecodan Compatibility Table

# ATW branch box connection compatibility table

| Series | Туре     | Model name     | Compatibility | Type  | Model name  | Compatibility | Type   | Model name  | Compatibility |
|--------|----------|----------------|---------------|-------|-------------|---------------|--------|-------------|---------------|
| ATW    | Cylinder | EHST20C-VM2/6D | •             | Hydro | EHSC-VM2/6D | •             | Branch | PAC-MK53BC  | •             |
|        | unit     | EHST20C-YM9D   | •             | box   | EHSC-YM9D   | •             | box    | PAC-MK33BC  | •             |
|        |          | EHST20C-TM9D   | •             |       | EHSC-TM9D   | •             |        | PAC-MK53BCB | •             |
|        |          | EHST20C-YM9ED  | •             |       | EHSC-YM9ED  | •             |        | PAC-MK33BCB | •             |

# Connectable indoor unit capacity

For individual operation ATA+ATW (no simultaneous operation) ATA: Max 130% of outdoor unit capacity + ATW (EHST20C or EHSC)

| Outdoor capacity 12.5kW                        |   |
|--|---|
| ATW indoor unit (Cylinder or Hydro box) 11.2kW | Connectable ATA indoor unit total capacity: Max.16.2kW (130%) |
| Outdoor capacity 14.0kW                        |   |
| ATW indoor unit (Cylinder or Hydro box) 11.2kW | Connectable ATA indoor unit total capacity: Max.18.2kW (130%) |
| Outdoor capacity 15.5kW                        |   |
| ATW indoor unit (Cylinder or Hydro box) 11.2kW | Connectable ATA indoor unit total capacity: Max.20.2kW (130%) |

For simultaneous operation of ATA+ATW Max 100% of outdoor unit capacity: ATA + ATW (EHST20C or EHSC)

| To difficulties of operation of the transfer o | outdoor arm oupdor               | .y.,, . , .  | TW (Energy of Energy  |
|--|----------------------------------|--------------|---|
| Outdoor capacity 12.5kW  |                                  |              |   |
| ATW indoor unit (Cylinder or Hydro box) 11.2kW   | ATA<br>capacity<br>Max.<br>1.3kW | ally, one MS | Z-SF15VA or MSZ-AP15VF can be connected.                                  |
| Outdoor capacity 14.0kW  |                                  |              |   |
| ATW indoor unit (Cylinder or Hydro box) 11.2kW   | ATA capacity<br>Max. 2.8kW       | *Exception   | nally, two units of MSZ-SF15VA or MSZ-AP15VF can be connected.            |
| Outdoor capacity 15.5kW  |                                  |              |   |
| ATW indoor unit (Cylinder or Hydro box) 11.2kW   | ATA capacity Ma                  | ax. 4.3kW    | *Exceptionally, three units of MSZ-SF15VA or MSZ-AP15VF can be connected. |

| Cylinder u                        | mit (Haati                                       | na anluk                      |        |                             |   |                    |                   |                      | CII -              | apacity            |                    |                    |                    |                    |                  |
|-----------------------------------|--|-------------------------------|--------|-----------------------------|---|--------------------|-------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|
|                                   |  | ng only)>                     |        | EHST17D-                    | EHST17D-  | EHST20D-           | EHST20D-          | EHST20D-             |                    | EHST20D-           | EHST20D-           | EHST30D-           | EHST30D-           | EHST30D-           | EHST30I          |
| Model name                        | 9  |                               |        | VM2D                        | YM9D  | MED                | VM2D              | VM6D                 | YM9D               | YM9ED              | TM9D               | MED                | VM6ED              | YM9ED              | TM9ED            |
|                                   |  | Туре                          |        |                             |   |                    |                   |                      |                    | Heating only       | /                  |                    |                    |                    |                  |
|                                   |  | Expansion vessel              |        | レ                           | レ   | -                  | レ                 | V                    | V                  | -                  | レ                  | _                  | _                  | _                  | _                |
|                                   |  | Booster heater (2/6/9 kW)     |        | レ                           | レ   | _                  | レ                 | レ                    | レ                  | レ                  | レ                  | _                  | レ                  | レ                  | レ                |
| Dimensions                        |  | HxWxD                         | mm     | 1400x595<br>x680            |   |                    |                   |                      |                    |                    |                    |                    | 95×680             |                    |                  |
| Weight (em                        | pty)   |                               | kg     | 93                          | 96  | 93                 | 99                | 100                  | 102                | 96                 | 102                | 113                | 115                | 117                | 117              |
| Control Boa                       | rd Power su                                      | ipply (Phase / V / Hz)        |        | ~ /N,230V,<br>50Hz          | ~ /N,230V,<br>50Hz  | ~ /N,230V,<br>50Hz | ~ /N,230V<br>50Hz | , ∼ /N,230V,<br>50Hz | ∼ /N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | ∼ /N,230V,<br>50Hz | ~ /N,230<br>50Hz |
| Heater                            | Booster  | Power supply (Phase / V / Hz) |        | ~ /N,230V,<br>50Hz          | 3 ∼ ,400V,<br>50Hz  | -                  | ∼ /N,230V<br>50Hz | , ∼ /N,230V,<br>50Hz | 3 ~ ,400V,<br>50Hz | 3 ~ ,400V,<br>50Hz | 3 ~ ,230V,<br>50Hz | _                  | ~ /N,230V,<br>50Hz | 3 ~ ,400V,<br>50Hz | 3 ~ ,230<br>50Hz |
|                                   | heater   | Capacity                      | kW     | 2                           | 3+6   | _                  | 2                 | 2+4                  | 3+6                | 3+6                | 3+6                | -                  | 2+4                | 3+6                | 3+6              |
|                                   |  | Current                       | Α      | 9                           | 13  | _                  | 9                 | 26                   | 13                 | 13                 | 23                 | _                  | 26                 | 13                 | 23               |
|                                   |  | Breaker size                  | Α      | 16                          | 16  | _                  | 16                | 32                   | 16                 | 16                 | 32                 | -                  | 32                 | 16                 | 32               |
| Domestic<br>hot water<br>tank     | Volume / N                                       | Material                      | L/-    | 170 /<br>Stainless<br>steel | 170 /<br>Stainless<br>steel 300 / Stainless steel 300 / Stainless steel |                    |                   |                      |                    |                    |                    |                    |                    |                    |                  |
| Guranteed                         | Ambient  |                               | °C     |                             |   |                    |                   |                      | 0 - 35 (≦          | ≦80%RH)            |                    |                    |                    |                    |                  |
| operating                         | Outdoor  | Heating                       | °C     |                             |   |                    |                   | S                    | ee outdoor         | unit spec ta       | ble                |                    |                    |                    |                  |
| range *1                          |  | Cooling                       | °C     |                             |   |                    |                   |                      |                    | _                  |                    |                    |                    |                    |                  |
| Target                            | Heating  | Room temperature              | °C     |                             |   |                    |                   |                      | 10                 | - 30               |                    |                    |                    |                    |                  |
| temperature                       |  | Flow temperature              | °C     |                             |   |                    |                   |                      | 20                 | - 60               |                    |                    |                    |                    |                  |
| Cooling Room temperature          |  |                               | °C     |                             |   |                    |                   |                      |                    | _                  |                    |                    |                    |                    |                  |
| Flow temperature                  |  |                               | °C     |                             |   |                    |                   |                      |                    | _                  |                    |                    |                    |                    |                  |
|                                   |  |                               | °C     | 70                          | 70  | *2                 |                   |                      | 70                 |                    |                    | *2                 |                    | 70                 |                  |
| performanc                        | performance Water heater energy efficiency class |                               | class  | A+ A-A+                     |   |                    |                   |                      |                    |                    |                    |                    |                    |                    |                  |
| Sound pressure level (PWL) dB (A) |  |                               | (4) 41 |                             |   |                    |                   |                      |                    |                    |                    |                    |                    |                    |                  |

<sup>\*1</sup> The indoor environment must be frost-free
\*2 For the model without booster heater and immersion heater, the maximum allowable hot water temperature is 3°C lower than maximum outlet water of outdoor unit. For the maximum outlet water of outdoor unit, refer to outdoor unit data book.

| <cylinder th="" ι<=""><th>unit (Heati</th><th>ing only)&gt;</th><th></th><th></th><th></th><th></th><th></th><th>Medium</th><th>capacity</th><th></th><th></th><th></th><th></th></cylinder> | unit (Heati                                     | ing only)>                    |                  |                    |                        |                    |                    | Medium             | capacity           |                    |                    |                    |                    |
|--|---|-------------------------------|------------------|--------------------|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Model nam  | e   |                               |                  | EHST20C-<br>MED    | EHST20C-<br>VM2D       | EHST20C-<br>VM6D   | EHST20C-<br>YM9D   | EHST20C-<br>YM9ED  | EHST20C-<br>TM9D   | EHST30C-<br>MED    | EHST30C-<br>VM6ED  | EHST30C-<br>YM9ED  | EHST30C-<br>TM9ED  |
|  |   | Туре                          |                  |                    |                        |                    |                    | •                  | ng only            |                    |                    |                    |                    |
|  |   | Expansion vessel              |                  | -                  | V                      | V                  | V                  | _                  | V                  | _                  | -                  | _                  | _                  |
|  |   | Booster heater (2/6/9 kW)     |                  | -                  | V                      | レ                  | V                  | レ                  | V                  | -                  | V                  | V                  | レ                  |
| Dimensions   | 3   | HxWxD                         | mm               |                    | 1600x595x680 2050x595x |                    |                    |                    |                    |                    | 95×680             |                    |                    |
| Weight (em   | pty)  |                               | kg               | 103                | 110                    | 110                | 112                | 107                | 112                | 120                | 122                | 124                | 124                |
| Control Boa  | rd Power si                                     | upply (Phase / V / Hz)        | •                | ~ /N,230V,<br>50Hz | ~ /N,230V,<br>50Hz     | ~ /N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | ~ /N,230V,<br>50Hz |
| Heater   | Booster   | Power supply (Phase / V / Hz) |                  | -                  | ~ /N,230V,<br>50Hz     | ~ /N,230V,<br>50Hz | 3 ~ ,400V,<br>50Hz | 3 ~ ,400V,<br>50Hz | 3 ~ ,400V,<br>50Hz | _                  | ~ /N,230V,<br>50Hz | 3 ~ ,400V,<br>50Hz | 3 ~ ,230V,<br>50Hz |
|  | heater Capacity k                               |                               |                  | -                  | 2                      | 2+4                | 3+6                | 3+6                | 3+6                | _                  | 2+4                | 3+6                | 3+6                |
|  |   | Current                       | Α                | -                  | 9                      | 26                 | 13                 | 13                 | 23                 | _                  | 26                 | 13                 | 23                 |
|  |   | Breaker size                  | Α                | -                  | 16                     | 32                 | 16                 | 16                 | 32                 | -                  | 32                 | 16                 | 32                 |
| Domestic<br>hot water<br>tank  | Volume / I                                      | Materia <b>l</b>              | L/-              |                    |                        | 200 / Stai         | nless steel        |                    |                    |                    | 300 / Stai         | nless steel        |                    |
| Guranteed  | Ambient   |                               | °C               |                    | 0 - 35 (≦80%RH)        |                    |                    |                    |                    |                    |                    |                    |                    |
| operating<br>range *1  | Outdoor   | Heating                       | °C               |                    |                        |                    | 5                  | See outdoor i      | unit spec tabl     | le                 |                    |                    |                    |
| range  |   | Cooling                       | °C               |                    |                        |                    |                    | -                  | _                  |                    |                    |                    |                    |
| Target   | Heating   | Room temperature              | °C               |                    |                        |                    |                    | 10                 | - 30               |                    |                    |                    |                    |
| temperature  |   | Flow temperature              | °C               |                    |                        |                    |                    | 20                 | - 60               |                    |                    |                    |                    |
| range  | Coolimg Room temperature °0                     |                               | °C               |                    |                        |                    |                    | -                  | _                  |                    |                    |                    |                    |
| Flow temperature °   |   | °C                            |                  |                    |                        |                    | -                  | _                  |                    |                    |                    |                    |                    |
| DHW tank   |   |                               |                  | *2                 |                        |                    | 70                 |                    |                    | *2                 |                    | 70                 |                    |
| pertormano   | erformance Water heater energy efficiency class |                               | A <sup>+</sup> A |                    |                        |                    |                    |                    |                    |                    |                    |                    |                    |
| Sound pres   | Sound pressure level (PWL) dB (A)               |                               | (A) 40           |                    |                        |                    |                    |                    |                    |                    |                    |                    |                    |

<sup>\*1</sup> The indoor environment must be frost-free
\*2 For the model without booster heater and immersion heater, the maximum allowable hot water temperature is 3°C lower than maximum outlet water of outdoor unit.
For the maximum outlet water of outdoor unit, refer to outdoor unit data book.

| <hydro bo<="" th=""><th>x (Heating</th><th>only)&gt;</th><th></th><th></th><th></th><th>Small o</th><th>apacity</th><th></th><th></th><th></th><th></th><th>Medium</th><th>n capacity</th><th></th><th></th><th>Large</th><th>capacity</th></hydro> | x (Heating    | only)>                        |        |                    |                   | Small o            | apacity            |                    |                    |                   |                    | Medium             | n capacity         |                    |                    | Large             | capacity          |
|---|---------------|-------------------------------|--------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|
| Model nam   | е             |                               |        | EHSD-<br>MED       | EHSD-<br>VM2D     | EHSD-<br>VM6D      | EHSD-<br>YM9D      | EHSD-<br>YM9ED     | EHSD-<br>TM9D      | EHSC-<br>MED      | EHSC-<br>VM2D      | EHSC-<br>VM6D      | EHSC-<br>YM9D      | EHSC-<br>YM9ED     | EHSC-<br>TM9D      | EHSE-<br>MED      | EHSE-<br>YM9ED    |
|   |               | Туре                          |        |                    | •                 | •                  |                    |                    |                    | Heating           | g only             | •                  |                    |                    |                    |                   |                   |
|   |               | Expansion vessel              |        | _                  | V                 | V                  | レ                  | _                  | V                  | _                 | レ                  | V                  | V                  | -                  | V                  | _                 | _                 |
|   |               | Booster heater (2/6/9 kW)     |        | _                  | レ                 | レ                  | レ                  | レ                  | レ                  | _                 | V                  | レ                  | レ                  | レ                  | レ                  | _                 | V                 |
| Dimensions  | 3             | HxWxD                         | mm     |                    |                   |                    |                    |                    | 800x5              | 30×360            |                    |                    |                    |                    |                    | 950×6             | 00×360            |
| Weight (em  | pty)          |                               | kg     | 36                 | 43                | 44                 | 44                 | 40                 | 44                 | 40                | 47                 | 48                 | 48                 | 43                 | 48                 | 61                | 63                |
| Control Boa   | rd Power su   | upply (Phase / V / Hz)        | •      | ~ /N,230V,<br>50Hz | ~/N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | ~/N,230V,<br>50Hz  | ~ /N,230V,<br>50Hz | ~/N,230V,<br>50Hz  | ~/N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | ~/N,230V,<br>50Hz  | ~/N,230V,<br>50Hz  | ~/N,230V,<br>50Hz  | ~/N,230V,<br>50Hz | ~ /N,230V<br>50Hz |
| Heater  | Booster       | Power supply (V / Phase / Hz) |        | _                  | ~/N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | 3 ~ ,400V,<br>50Hz | 3 ~ ,400V,<br>50Hz | 3 ~ ,230V,<br>50Hz | -                 | ~ /N,230V,<br>50Hz | ~ /N,230V,<br>50Hz | 3 ~ ,400V,<br>50Hz | 3 ~ ,400V,<br>50Hz | 3 ~ ,230V,<br>50Hz | -                 | 3 ~ ,400V<br>50Hz |
|   | heater        | Capacity                      | kW     | _                  | 2                 | 2+4                | 3+6                | 3+6                | 3+6                | -                 | 2                  | 2+4                | 3+6                | 3+6                | 3+6                | -                 | 3+6               |
|   |               | Current                       | Α      | -                  | 9                 | 26                 | 13                 | 13                 | 23                 | -                 | 9                  | 26                 | 13                 | 13                 | 23                 | -                 | 13                |
|   |               | Breaker size                  | Α      | _                  | 16                | 32                 | 16                 | 16                 | 32                 | -                 | 16                 | 32                 | 16                 | 16                 | 32                 | -                 | 16                |
| Guranteed   | Ambient       |                               | L/-    |                    |                   | •                  |                    |                    |                    | 0 - 35 (≦         | 80%RH)             |                    |                    | •                  |                    |                   |                   |
| operating<br>range *1   | Outdoor       | Heating                       | °C     |                    |                   |                    |                    |                    | See                | outdoor u         | ınit spec t        | able               |                    |                    |                    |                   |                   |
| range i   |               | Cooling                       | °C     |                    |                   |                    |                    |                    |                    | -                 | -                  |                    |                    |                    |                    |                   |                   |
| Target  | Heating       | Room temperature              | °C     |                    |                   |                    |                    |                    |                    | 10                | - 30               |                    |                    |                    |                    |                   |                   |
| temperature range   |               | Flow temperature              | °C     |                    |                   |                    |                    |                    |                    | 20                | - 60               |                    |                    |                    |                    |                   |                   |
| range   | Coolimg       | Room temperature              | °C     |                    |                   |                    |                    |                    |                    | =                 | -                  |                    |                    |                    |                    |                   |                   |
| Flow temperature °C   |               |                               |        |                    | -                 |                    |                    |                    |                    |                   |                    |                    |                    |                    |                    |                   |                   |
| Sound pres  | sure level (F | PWL)                          | dB (A) |                    |                   | 4                  | 1                  |                    |                    |                   |                    | 4                  | .0                 |                    |                    |                   | 45                |

<sup>\*1</sup> The indoor environment must be frost-free.

| ndoor                         | unit          |                                |        |                          | NEW                      |                          | NEW                      | NEW                      |                          | NEW                      | NEW                      |
|-------------------------------|---------------|--------------------------------|--------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Cylinder                      | unit (Reve    | ersib <b>l</b> e)>             |        |                          |                          |                          | Small                    | apacity                  |                          |                          |                          |
| Model nam                     | е             |                                |        | ERST17D-VM2D             | ERST17D-VM6D             | ERST20D-VM2D             | ERST20D-VM6D             | ERST20D-YM9D             | ERST30D-VM2ED            | ERST30D-VM6ED            | ERST30D-YM9EI            |
|                               |               | Туре                           |        |                          |                          |                          | Heating a                | nd Cooling               |                          |                          |                          |
|                               |               | Expansion vessel               |        | V                        | レ                        | レ                        | V                        | レ                        |                          |                          |                          |
|                               |               | Booster heater (2/6/9 kW)      |        | レ                        | レ                        | レ                        | レ                        | レ                        | レ                        | V                        | レ                        |
| Dimensions                    | 5             | HxWxD                          | mm     | 1400x595x680             | 1400x595x680             | 1600x595x680             | 1600x595x680             | 1600x595x680             | 2050x595x680             | 2050x595x680             | 12050x595x680            |
| Weight (em                    | ipty)         |                                | kg     | 94                       | 94                       | 100                      | 100                      | 102                      | 115                      | 116                      | 117                      |
| Control Boa                   | ard Power s   | upply (Phase / V / Hz)         | •      | ~/N, 230V, 50Hz          | ~/N, 230V, 50H           |
| Heater                        | Booster       | Power supply (V / Phase / Hz)  |        | ~/N, 230V, 50Hz          | ~/N, 230V, 50Hz          | ~/N, 230V, 50Hz          | ~/N, 230V, 50Hz          | 3 ~ , 400V, 50Hz         | ~/N, 230V, 50Hz          | ~/N, 230V, 50Hz          | 3~, 400V, 50H            |
|                               | heater        | Capacity                       | kW     | 2                        | 2+4                      | 2                        | 2+4                      | 3+6                      | 2                        | 2+4                      | 3+6                      |
|                               |               | Current                        | Α      | 9                        | 26                       | 9                        | 26                       | 13                       | 9                        | 26                       | 13                       |
|                               |               | Breaker size                   | Α      | 16                       | 32                       | 16                       | 32                       | 16                       | 16                       | 32                       | 16                       |
| Domestic<br>hot water<br>tank | Volume / f    | Materia <b>l</b>               | L/-    | 170 /<br>Stainless steel | 170 /<br>Stainless steel | 200 /<br>Stainless steel | 200 /<br>Stainless steel | 200 /<br>Stainless steel | 300 /<br>Stainless steel | 300 /<br>Stainless steel | 300 /<br>Stainless steel |
| Guranteed                     | Ambient       |                                | °C     |                          |                          |                          | 0 - 35 (≦                | 80%RH)                   |                          |                          |                          |
| operating                     | Outdoor       | Heating                        | °C     |                          |                          |                          | See outdoor              | unit spec table          |                          |                          |                          |
| range *1                      |               | Cooling                        | °C     |                          |                          |                          | See outdoor ur           | nit spec table *2        |                          |                          |                          |
| Target                        | Heating       | Room temperature               | °C     |                          |                          |                          | 10                       | - 30                     |                          |                          |                          |
| temperature range             |               | Flow temperature               | °C     |                          |                          |                          | 20                       | - 60                     |                          |                          |                          |
| range                         | Coolimg       | Room temperature               | °C     |                          |                          |                          |                          | =.                       |                          |                          |                          |
|                               |               | Flow temperature               | °C     |                          |                          |                          | 5 -                      | 25                       |                          |                          |                          |
| DHW tank                      |               | Max. hot water temperature     | °C     |                          |                          |                          | 7                        | 0                        |                          |                          |                          |
| performano                    | e             | Water heater energy efficiency | class  |                          |                          | A <sup>+</sup>           |                          |                          |                          | A - A+                   |                          |
| Sound pres                    | sure level (f | PWL)                           | dB (A) | 41                       |                          |                          |                          |                          |                          |                          |                          |

<sup>\*1</sup> The indoor environment must be frost-free.
\*2 During cooling operation at low outdoor temperature (10°C or lower), frozen water may cause damage on plate heat exchanger.

|  |            |                               |         |                          | NEW                      | NEW                      |                          | NEW                      | NEW                      |  |  |
|--|------------|-------------------------------|---------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--|
| Cylinder   | unit (Reve | ersible)>                     |         |                          |                          | Medium                   | capacity                 |                          |                          |  |  |
| Model nam  | е          |                               |         | ERST20C-VM2D             | ERST20C-VM6D             | ERST20C-YM9D             | ERST30C-VM2ED            | ERST30C-VM6ED            | ERST30C-YM9E             |  |  |
|  |            | Туре                          |         |                          |                          | Heating an               | d Cooling                |                          |                          |  |  |
|  |            | Expansion vessel              |         | レ                        | V                        | V                        |                          |                          |                          |  |  |
|  |            | Booster heater (2/6/9 kW)     |         | レ                        | レ                        | V                        | V                        | レ                        | レ                        |  |  |
| Dimensions                                       | 3          | HxWxD                         | mm      | 1600x595x680             | 1600x595x680             | 1600x595x680             | 2050x595x680             | 2050x595x680             | 2050x595x680             |  |  |
| Weight (em                                       | pty)       |                               | kg      | 110                      | 111                      | 112                      | 122                      | 122                      | 124                      |  |  |
| Control Boa                                      | rd Power s | upply (Phase / V / Hz)        | •       | ~/N, 230V, 50Hz          |  |  |
| Heater   | Booster    | Power supply (V / Phase / Hz) |         | ~/N, 230V, 50Hz          | ~/N, 230V, 50Hz          | 3∼, 400V, 50Hz           | ~/N, 230V, 50Hz          | ~/N, 230V, 50Hz          | 3 ∼, 400V, 50Hz          |  |  |
|  | heater     | Capacity                      | kW      | 2                        | 2+4                      | 3+6                      | 2                        | 2+4                      | 3+6                      |  |  |
|  |            | Current                       | Α       | 9                        | 26                       | 13                       | 9                        | 26                       | 13                       |  |  |
|  |            | Breaker size                  | Α       | 16                       | 32                       | 16                       | 16                       | 32                       | 16                       |  |  |
| Domestic<br>hot water<br>tank                    | Volume / I | Materia <b>l</b>              | L/-     | 200 /<br>Stainless steel | 200 /<br>Stainless steel | 200 /<br>Stainless steel | 300 /<br>Stainless steel | 300 /<br>Stainless steel | 300 /<br>Stainless steel |  |  |
| Guranteed  | Ambient    |                               | °C      |                          |                          | 0 - 35 (≦                | 80%RH)                   |                          |                          |  |  |
| operating<br>range *1                            | Outdoor    | Heating                       | °C      |                          |                          | See outdoor u            | nit spec table           |                          |                          |  |  |
| range " i  |            | Cooling                       | °C      |                          |                          | See outdoor un           | it spec table *2         |                          |                          |  |  |
| Target   | Heating    | Room temperature              | °C      |                          |                          | 10 -                     | 30                       |                          |                          |  |  |
| temperature range                                |            | Flow temperature              | °C      |                          |                          | 20 -                     | 60                       |                          |                          |  |  |
| range  | Coolimg    | Room temperature              | °C      |                          |                          | =                        |                          |                          |                          |  |  |
| Flow temperature                                 |            |                               | °C      | 5 - 25                   |                          |                          |                          |                          |                          |  |  |
| DHW tank Max. hot water temperature              |            |                               | °C      | 70                       |                          |                          |                          |                          |                          |  |  |
| performance Water heater energy efficiency class |            |                               | / class | A <sup>+</sup> A         |                          |                          |                          |                          |                          |  |  |
| Sound pressure level (PWL) dB (A                 |            |                               | dB (A)  | (A) 40                   |                          |                          |                          |                          |                          |  |  |

<sup>\*1</sup> The indoor environment must be frost-free.
\*2 During cooling operation at low outdoor temperature (10°C or lower), frozen water may cause damage on plate heat exchanger.

|  |                             |                               |        |                 |                    | (NEW)           | (NEW)           |                 |                  | (NEW)           | (NEW)           |                 |                 |
|--|-----------------------------|-------------------------------|--------|-----------------|--------------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|
| <hydro bo<="" td=""><td>x (Reversi</td><td>ible)&gt;</td><td></td><td></td><td>;</td><td>Small capacity</td><td>/</td><td></td><td>Medium</td><td>capacity</td><td></td><td>Large o</td><td>apacity</td></hydro> | x (Reversi                  | ible)>                        |        |                 | ;                  | Small capacity  | /               |                 | Medium           | capacity        |                 | Large o         | apacity         |
| Model nam  | е                           |                               |        | ERSD-MED        | ERSD-VM2D          | ERSD-VM6D       | ERSD-YM9D       | ERSC-MED        | ERSC-VM2D        | ERSC-VM6D       | ERSC-YM9D       | ERSE-MED        | ERSE-YM9ED      |
|  |                             | Туре                          |        |                 |                    |                 | •               | Heating a       | nd Cooling       | •               |                 |                 | •               |
|  |                             | Expansion vessel              |        | -               | V                  | レ               | V               | -               | V                | レ               | V               | -               | -               |
|  |                             | Booster heater (2/6/9kW)      |        | -               | V                  | V               | V               | -               | レ                | レ               | V               | -               | レ               |
| Dimensions   | 5                           | HxWxD                         | mm     |                 | 800x530x360 950x60 |                 |                 |                 |                  |                 |                 | 00x360          |                 |
| Weight (em   | ipty)                       |                               | kg     | 38              | 44                 | 43              | 44              | 41              | 48               | 48              | 48              | 62              | 64              |
| Control Boa  | ard Power s                 | upply (Phase / V / Hz)        |        | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz    | ∼/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz  | ∼/N, 230V, 50Hz | ∼/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz |
| Heater   | Booster                     | Power supply (V / Phase / Hz) |        | -               | ~/N, 230V, 50Hz    | ~/N, 230V, 50Hz | 3∼, 400V, 50Hz  | -               | ~/N, 230V, 50Hz  | ∼/N, 230V, 50Hz | 3∼, 400V, 50Hz  | -               | 3 ~, 400V, 50Hz |
|  | heater                      | Capacity                      | kW     | -               | 2                  | 2+4             | 3+6             | -               | 2                | 2+4             | 3+6             | -               | 3+6             |
|  |                             | Current                       | Α      | -               | 9                  | 26              | 13              | -               | 9                | 26              | 13              | -               | 13              |
|  |                             | Breaker size                  | Α      | -               | 16                 | 32              | 16              | -               | 16               | 32              | 16              | -               | 16              |
| Guranteed  | Ambient                     |                               | °C     |                 |                    |                 |                 | 0 - 35 (≦       | 80%RH)           | •               |                 |                 |                 |
| operating<br>range *1  | Outdoor                     | Heating                       | °C     |                 |                    |                 |                 | See outdoor     | unit spec table  |                 |                 |                 |                 |
| range i  |                             | Cooling                       | °C     |                 |                    |                 | 5               | See outdoor u   | nit spec table * | 2               |                 |                 |                 |
| Target   | Heating                     | Room temperature              | °C     |                 |                    |                 |                 | 10              | - 30             |                 |                 |                 |                 |
| temperature<br>range   |                             | Flow temperature              | °C     | 20 - 60         |                    |                 |                 |                 |                  |                 |                 |                 |                 |
| range  | Coolimg Room temperature °C |                               |        |                 |                    |                 |                 |                 | =                |                 |                 |                 |                 |
|  | Flow temperature °C         |                               |        | 5 - 25          |                    |                 |                 |                 |                  |                 |                 |                 |                 |
| Sound pres   | sure level (f               | PWL)                          | dB (A) |                 | 4                  | 1               |                 | 4               | 10               | 40              | 40              | 4               | 15              |

<sup>\*1</sup> The indoor environment must be frost-free \*2 If you use our system in cooling mode at the low ambient temperature (10°C or below), there are some risks of plate heat exchanger breaking by frozen water.



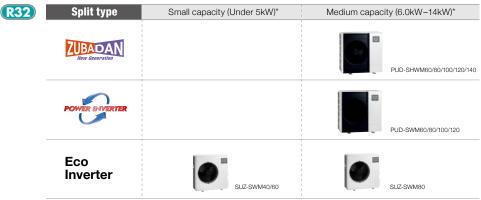
| Dutdoor                                | aint                                    |            |       |                 | Eco Inverter    |                 |
|--|---|------------|-------|-----------------|-----------------|-----------------|
| Model name                             |   |            |       | SUZ-SWM40VA     | SUZ-SWM60VA     | SUZ-SWM80VA     |
| Refrigerant                            |   |            |       |                 | R32*1           |                 |
| Dimensions                             |   | H×W×D      | mm    | 880×840×330     | 880×840×330     | 880×840×330     |
| Weight                                 |   |            | kg    | 54              | 54              | 54              |
| Power supply                           | y (V / Phase / F                        | łz)        |       | 230 / 1-ph / 50 | 230 / 1-ph / 50 | 230 / 1-ph / 50 |
| Heating                                | A7W35*2                                 | Nominal    | kW    | 4.0             | 6.0             | 7.5             |
|  |   | СОР        |       | 5.20            | 4.86            | 4.70            |
|  | A2W35*2                                 | Nominal    | kW    | 4.0             | 5.0             | 6.5             |
|  |   | СОР        |       | 3.90            | 3.33            | 3.40            |
| Average clim                           |   | Class      |       | A+++            | A+++            | A+++            |
| outlet 35°C*3                          | i                                       | ης         |       | 180             | 181             | 182             |
| Average clim                           |   | Class      |       | A++             | A++             | A++             |
| outlet 55°C*3                          | 1                                       | ης         |       | 129             | 130             | 131             |
|  |   | Class      |       | A+              | A+              | A+              |
| (Average clim                          | W 200L(L) Load Profile crage climate)*4 |            |       | 159             | 148             | 148             |
| Max outlet w                           | ater temperat                           | ure (°C)   |       | 60              | 60              | 60              |
| Cooling                                | A35W7*2                                 | Nominal    | kW    | 4.5             | 5.0             | 5.4             |
|  |   | EER        |       | 3.29            | 3.03            | 3.00            |
|  | A35W18*2                                | Nominal    | kW    | 5.6             | 6.0             | 6.3             |
|  |   | EER        |       | 4.97            | 4.88            | 4.80            |
| PWL (Heating                           | g)* <sup>5</sup>                        |            | dB(A) | 58              | 60              | 62              |
| Max operatin                           | g current                               |            | Α     | 13.9            | 13.9            | 13.9            |
| Breaker size                           |   |            | Α     | 16              | 16              | 16              |
| Piping                                 | Diameter                                | Liquid/Gas | mm    | 6.35 / 12.7     | 6.35 / 12.7     | 6.35 / 12.7     |
|  | Length                                  | Out-In     | m     | 5-30            | 5-30            | 5-30            |
|  | Height                                  | Out-In     | m     | Max 30          | Max 30          | Max 30          |
| Guaranteed Heating Operating Range DHW | Heating                                 |            | °C    | -20°C~24°C      | −20°C~24°C      | –20°C~24°C      |
|  | DHW                                     |            | °C    | −20°C~35°C      | −20°C~35°C      | −20°C~35°C      |
|  | Cooling                                 |            | °C    | 10°C~46°C       | 10°C~46°C       | 10°C~46°C       |

| Outdoor            | r unit           |                |       |                  | Power Inverte      | r, Heating only     |                     |                    | ZUB                 | ADAN, Heating        | only                 |                      |
|--------------------|------------------|----------------|-------|------------------|--------------------|---------------------|---------------------|--------------------|---------------------|----------------------|----------------------|----------------------|
| Model name         |                  |                |       | PUD-<br>SWM60VAA | PUD-<br>SWM80V/YAA | PUD-<br>SWM100V/YAA | PUD-<br>SWM120V/YAA | PUD-<br>SHWM60VAA  | PUD-<br>SHWM80V/YAA | PUD-<br>SHWM100V/YAA | PUD-<br>SHWM120V/YAA | PUD-<br>SHWM140V/YAA |
| Refrigerant        |                  |                |       |                  |                    |                     |                     | R32*1              |                     |                      |                      | 1                    |
| Dimensions         |                  | H×W×D          | mm    | 1020×1050×480    | 1020×1050×480      | 1020×1050×480       | 1020×1050×480       | 1020×1050×480      | 1020×1050×480       | 1020×1050×480        | 1020×1050×480        | 1020×1050×480        |
| Weight             |                  |                | kg    | 101              | 101/114            | 105/118             | 105/118             | 102                | 102/115             | 108/121              | 108/121              | 110/122              |
| Power suppl        | y (V / Phase / H | lz)            |       |                  |                    |                     | VAA: 230 / 1        | l-ph / 50, YAA: 40 | 0 / 3-ph / 50       |                      |                      |                      |
| Heating            | A7W35*2          | Nominal        | kW    | 5.0              | 6.0                | 8.0                 | 10.0                | 5.0                | 6.0                 | 8.0                  | 10.0                 | 12.0                 |
|                    |                  | COP            |       | 4.76             | 4.76               | 5.00                | 4.70                | 4.99               | 5.03                | 5.00                 | 4.80                 | 4.70                 |
|                    | A2W35*2          | Nominal        | kW    | 6.0              | 8.0                | 10.0                | 12.0                | 6.0                | 8.0                 | 10.0                 | 12.0                 | 14.0                 |
|                    |                  | COP            |       | 3.60             | 3.55               | 3.30                | 3.24                | 3.80               | 3.75                | 3.45                 | 3.30                 | 3.05                 |
| Average clim       |                  | Class          |       | A+++             | A+++               | A+++                | A+++                | A+++               | A+++                | A+++                 | A+++                 | A+++                 |
| outlet 35°C*3      | 3                | ης             |       | 175              | 178/176            | 178/177             | 177/176             | 178                | 181/179             | 180/178              | 179/177              | 179/177              |
| Average clim       |                  | Class          |       | A++              | A++                | A++                 | A++                 | A++                | A++                 | A++                  | A++                  | A++                  |
| outlet 55°C*3      | 3                | η <sub>S</sub> |       | 130              | 131/130            | 131/130             | 129/128             | 134                | 135/134             | 136/135              | 135/134              | 134/134              |
|                    | /300L(XL) Load   | Class          |       | A+ / A           | A+ / A             | A+ / A              | A+ / A              | A+ / A             | A+ / A              | A+ / A               | A+ / A               | A+ / A               |
| Profile (Avera     | ge climate)*4    | ηwh            |       | 148/121          | 148/121            | 148/121             | 148/121             | 148/121            | 148/121             | 148/121              | 148/121              | 145/121              |
| Max outlet w       | vater temperati  | ıre (°C)       |       | 60               | 60                 | 60                  | 60                  | 60                 | 60                  | 60                   | 60                   | 60                   |
| PWL (Heating       | g)* <sup>5</sup> |                | dB(A) | 55               | 56                 | 59                  | 60                  | 55                 | 56                  | 59                   | 60                   | 62                   |
| Max operation      | ng current       |                | Α     | 16.5             | 22/8               | 26/10               | 28/12               | 16.5               | 22/8                | 26/10                | 28/12                | 35/12                |
| Breaker size       |                  |                | Α     | 20               | 25/16              | 30/16               | 32/16               | 20                 | 25/16               | 30/16                | 32/16                | 40/16                |
| Piping             | Diameter         | Liquid/Gas     | mm    | 6.35/12.7        | 6.35/12.7          | 6.35/12.7           | 6.35/12.7           | 6.35/12.7          | 6.35/12.7           | 6.35/12.7            | 6.35/12.7            | 6.35/12.7            |
|                    | Length           | Out-In         | m     | 2 - 30           | 2 - 30             | 2 - 30              | 2 - 30              | 2 - 30             | 2 - 30              | 2 - 30               | 2 - 30               | 2 - 25               |
|                    | Height           | Out-In         | m     | Max. 30          | Max. 30            | Max. 30             | Max. 30             | Max. 30            | Max. 30             | Max. 30              | Max. 30              | Max. 25              |
| Guaranteed         | Heating          |                | °C    | -25°C~24°C       | -25°C~24°C         | -25°C~24°C          | -25°C~24°C          | -28°C~24°C         | -28°C~24°C          | -28°C~24°C           | -28°C~24°C           | -28°C~24°C           |
| Operating<br>Range | DHW              |                | °C    | –25°C~35°C       | –25°C~35°C         | -25°C~35°C          | –25°C~35°C          | –28°C~35°C         | -28°C~35°C          | –28°C~35°C           | -28°C~35°C           | -28°C~35°C           |

<sup>\*1</sup> Refrigerant leakage contribute to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atomosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

\*2 Air-to-Water values are measured based on EN14511 (Circulation pump input is not included.).

\*3 No values are measured based on EN14825. \*4 Nwh values are measured based on EN16147. \*5 Sound power levels are measured based on EN12102.





| Dutdoor            | a i i i i        |            |       |                         |                          | Power Inverter                   |                        |                        |
|--------------------|------------------|------------|-------|-------------------------|--------------------------|----------------------------------|------------------------|------------------------|
| Model name         | •                |            |       | PUHZ-<br>SW75V/YAA(-BS) | PUHZ-<br>SW100V/YAA(-BS) | PUHZ-<br>SW120V/YHA(-BS)         | PUHZ-<br>SW160YKA(-BS) | PUHZ-<br>SW200YKA(-BS) |
| Refrigerant        |                  |            |       |                         |                          | R410A*1                          |                        |                        |
| Dimensions         |                  | H×W×D      | mm    | 1020×1050×480           | 1020×1050×480            | 1350×950×330                     | 1338×1050×330          | 1338×1050×330          |
| Weight             |                  |            | kg    | 92/104                  | 114/126                  | 118/130                          | 136                    | 136                    |
| Power suppl        | y (V / Phase / H | z)         |       |                         | VAA, VHA: 23             | 30 / 1-ph / 50, YAA, YHA, YKA: 4 | 100 / 3-ph / 50        |                        |
| Heating            | A7W35*2          | Nominal    | kW    | 8.0                     | 11.2                     | 16.0                             | 22.0                   | 25.0                   |
|                    |                  | COP        |       | 4.40                    | 4.46                     | 4.10                             | 4.20                   | 4.00                   |
|                    | A2W35*2          | Nominal    | kW    | 7.5                     | 10.0                     | 12.0                             | 16.0                   | 20.0                   |
|                    |                  | COP        |       | 3.40                    | 3.32                     | 3.24                             | 3.11                   | 2.80                   |
| Average clim       |                  | Class      |       | A++                     | A++                      | A++                              | A <sup>++</sup>        | A++                    |
| outlet 35°C*3      | 3                | ης         |       | 162/160                 | 167/165                  | 162/162                          | 161                    | 163                    |
| Average clim       |                  | Class      |       | A++                     | A++                      | A++                              | A++                    | A++                    |
| outlet 55°C*3      | 3                | ης         |       | 129/128                 | 130/129                  | 125/125                          | 125                    | 127                    |
|                    | /300L(XL) Load   | Class      |       | A+/A                    | A+ / A                   | A <sup>+</sup> / A               | -                      | -                      |
| Profile (Avera     | ige climate)*4   | ηwh        |       | 145/120                 | 145/120                  | 138/118                          | -                      | -                      |
| Max outlet v       | vater temperati  | ire (°C)   |       | 60                      | 60                       | 60                               | -                      | -                      |
| Cooling            | A35W7*2          | Nominal    | kW    | 7.1                     | 10.0                     | 12.5                             | 16.0                   | 20.0                   |
|                    |                  | EER        |       | 2.70                    | 2.83                     | 2.32                             | 2.76                   | 2.25                   |
|                    | A35W18*2         | Nominal    | kW    | 7.1                     | 10.0                     | 14.0                             | 18.0                   | 22.0                   |
|                    |                  | EER        |       | 4.43                    | 4.47                     | 4.08                             | 4.56                   | 4.1                    |
| PWL (Heating       | g)* <sup>5</sup> |            | dB(A) | 58                      | 60                       | 72                               | 78                     | 78                     |
| Max operatir       | ng current       |            | Α     | 22.0/11.5               | 28.0/12.0                | 29.5/13.0                        | 19.0                   | 21.0                   |
| Breaker size       |                  |            | Α     | 25/16                   | 32/16                    | 32/16                            | 25                     | 32                     |
| Piping             | Diameter         | Liquid/Gas | mm    | 9.52/15.88              | 9.52/15.88               | 9.52/15.88                       | 9.52/25.4              | 12.7/25.4              |
|                    | Length           | Out-In     | m     | 40                      | 75                       | 75                               | 80                     | 80                     |
|                    | Height           | Out-In     | m     | 10                      | 10                       | 30                               | 30                     | 30                     |
| Guaranteed         | Heating          |            | °C    | -20°C~21°C              | −20°C~21°C               | -20°C~21°C                       | −20°C~21°C             | -20°C~21°C             |
| Operating<br>Range | DHW              |            | °C    | -20°C~35°C              | −20°C~35°C               | −20°C~35°C                       | −20°C~35°C             | -20°C~35°C             |
|                    | Cooling          |            | °C    | -15°C~46°C              | −15°C~46°C               | -15°C~46°C                       | −15°C~46°C             | −15°C~46°C             |

|                    |                  |            |       |                          | ZUBA                          | ADAN                          |                     |
|--------------------|------------------|------------|-------|--------------------------|-------------------------------|-------------------------------|---------------------|
| Model name         |                  |            |       | PUHZ-<br>SHW80V/YAA(-BS) | PUHZ-<br>SHW112V/YAA          | PUHZ<br>SHW140YHA             | PUHZ-<br>SHW230YKA2 |
| Refrigerant        |                  |            |       |                          | R41                           | 0A*1                          |                     |
| Dimensions         |                  | H×W×D      | mm    | 1020×1050×480            | 1020×1050×480                 | 1350×950×330                  | 1338×1050×330       |
| Weight             |                  |            | kg    | 116/128                  | 116/128                       | 134                           | 143                 |
| Power supply       | / (V / Phase / H | z)         |       |                          | VAA, VHA: 230 / 1-ph / 50, Y/ | AA, YHA, YKA: 400 / 3-ph / 50 |                     |
| Heating            | A7W35*2          | Nominal    | kW    | 8.0                      | 11.2                          | 14.0                          | 23.0                |
|                    |                  | COP        |       | 4.65                     | 4.40                          | 4.22                          | 3.65                |
|                    | A2W35*2          | Nominal    | kW    | 8.0                      | 11.2                          | 14.0                          | 23.0                |
|                    |                  | COP        |       | 3.55                     | 3.22                          | 2.96                          | 2.37                |
| Average clim       |                  | Class      |       | A <sup>++</sup>          | A++                           | A++                           | A <sup>++</sup>     |
| outlet 35°C*3      |                  | ης         |       | 169/167                  | 171/169                       | 163                           | 164                 |
| Average clim       |                  | Class      |       | A <sup>++</sup>          | A++                           | A++                           | A <sup>++</sup>     |
| outlet 55°C*3      |                  | ηs         |       | 133/132                  | 135/135                       | 127                           | 127                 |
|                    | 300L(XL) Load    | Class      |       | A <sup>+</sup> / A       | A+ / A                        | A <sup>+</sup> / A            | -                   |
| Profile (Avera     | ge climate)*4    | ηwh        |       | 145/120                  | 145/120                       | 138/118                       | _                   |
| Max outlet w       | ater temperatu   | ıre (°C)   |       | 60                       | 60                            | 60                            | 60                  |
| Cooling            | A35W7*2          | Nominal    | kW    | 7.1                      | 10.0                          | 12.5                          | 20.0                |
|                    |                  | EER        |       | 3.31                     | 2.83                          | 2.17                          | 2.22                |
|                    | A35W18*2         | Nominal    | kW    | 7.1                      | 10                            | 12.5                          | 20.0                |
|                    |                  | EER        |       | 4.52                     | 4.74                          | 4.26                          | 3.55                |
| PWL (Heating       | g)* <sup>5</sup> |            | dB(A) | 59                       | 60                            | 70                            | 75                  |
| Max operatir       | g current        |            | Α     | 22/13                    | 28/13                         | 13                            | 20                  |
| Breaker size       |                  |            | Α     | 25/16                    | 32/16                         | 16                            | 25                  |
| Piping             | Diameter         | Liquid/Gas | mm    | 9.52/15.88               | 9.52/15.88                    | 9.52/15.88                    | 12.7/25.4           |
|                    | Length           | Out-In     | m     | 75                       | 75                            | 75                            | 80                  |
|                    | Height           | Out-In     | m     | 30                       | 30                            | 30                            | 30                  |
| Guaranteed         | Heating          |            | °C    | -28°C~21°C               | -28°C~21°C                    | -28°C~21°C                    | −25°C~21°C          |
| Operating<br>Range | DHW              |            | °C    | -28°C~35°C               | −28°C~35°C                    | −28°C~35°C                    | −25°C~35°C          |
|                    | Cooling          |            | °C    | -15°C~46°C               | -15°C~46°C                    | -15°C~46°C                    | −15°C~46°C          |

<sup>\*1</sup> Refrigerant leakage contribute to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atomosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.
\*2 Air-to-Water values are measured based on EN14825. \*4 Nwh values are measured based on EN16147. \*5 Sound power levels are measured based on EN12102.

| R410A | Split type                | Medium capacity (7.5kW-14kW) | Large capacity (≧16kW) |
|-------|---------------------------|------------------------------|------------------------|
|       | ZUBADAN<br>New Generation | PUHZ-SHW80/112AA PUHZ-SHW140 | PUHZ-SHW230            |
|       | POWER INVERTER            | PUHZ-SW75/100AA PUHZ-SW120   | PUHZ-SW160/200         |



# Packaged Type Specifications

# Indoor unit

<Cylinder unit (Heating only)>

| Model n              | ame         |          |                         |        | EHPT17X-<br>VM2D | EHPT17X-<br>VM6D  | EHPT17X-<br>YM9D | EHPT20X-<br>MED | EHPT20X-<br>VM6D | EHPT20X-<br>YM9D | EHPT20X-<br>YM9ED | EHPT20X-<br>TM9D | EHPT20X-<br>MHEDW | EHPT30X-<br>MED | EHPT30X-<br>YM9ED |
|----------------------|-------------|----------|-------------------------|--------|------------------|---|------------------|-----------------|------------------|------------------|-------------------|------------------|-------------------|-----------------|-------------------|
|                      |             | Тур      | e                       |        |                  |   |                  |                 |                  | Heating only     |                   |                  |                   |                 |                   |
|                      |             | lmn      | nersion heater          |        | -                | -   | -                | -               | -                | -                | -                 | -                | 1                 | -               | -                 |
|                      |             | Exp      | ansion vessel           |        | 1                | /   | /                | -               | /                | /                | -                 | 1                | -                 | -               | -                 |
|                      |             | Boo      | ster heater             |        | 1                | 1   | 1                | -               | 1                | 1                | 1                 | 1                | _                 | -               | 1                 |
| Dimensi              | ons         | H×V      | V×D                     | mm     |                  | 1400×595–680  | )                |                 |                  | 1600×5           | 95×680            |                  | •                 | 2050×5          | 95×680            |
| Weight (             | empty)      |          |                         | kg     | 86               | 87  | 89               | 87              | 94               | 96               | 90                | 96               | 94                | 106             | 110               |
| Control              | board powe  | er supp  | ly (Phase / V / Hz)     |        | ~/N, 230V, 50Hz  | ~/N, 230V, 50Hz   | ~/N, 230V, 50Hz  | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz  | ~/N, 230V, 50Hz  | ~/N, 230V, 50Hz   | ~/N, 230V, 50Hz  | ~/N, 230V, 50Hz   | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz   |
| Heater Booster       |             |          |                         | Hz)    | ~/N, 230V, 50Hz  | ~/N, 230V, 50Hz   | 3~, 400V, 50Hz   | -               | ~/N, 230V, 50Hz  | 3~, 400V, 50Hz   | 3~, 400V, 50Hz    | 3~, 230V, 50Hz   | -                 | -               | 3~, 400V, 50Hz    |
|                      | heater*2    | Cap      | acity                   | kW     | 2                | 2+4   | 3+6              | -               | 2+4              | 3+6              | 3+6               | 3+6              | -                 | -               | 3+6               |
|                      |             | Cur      | rent                    | Α      | 9                | 26  | 13               | -               | 26               | 13               | 13                | 23               | -                 | -               | 13                |
|                      |             | Brea     | aker size               | Α      | 16               | 32  | 16               | -               | 32               | 16               | 16                | 32               | -                 | -               | 16                |
|                      | Immersio    | n Pov    | ver supply (Phase / V / | Hz)    | -                | -   | -                | -               | -                | -                | -                 | -                | ~/N, 230V, 50Hz   | -               | -                 |
| ŀ                    | heater      | Сар      | acity                   | kW     | -                | -   | -                | -               | -                | -                | -                 | -                | 3                 | -               | -                 |
|                      |             | Cur      | rent                    | Α      | -                | -   | -                | -               | -                | -                | -                 | -                | 13                | -               | -                 |
|                      |             | Brea     | aker size               | Α      | -                | -   | -                | -               | -                | -                | -                 | -                | 16                | -               | -                 |
| Domesti<br>hot water |             | olume /  | Material                | L/-    | 170              | 170 / Stainless steel 200 / Stainless steel 300 / Stainless steel |                  |                 |                  |                  |                   |                  |                   | nless steel     |                   |
| Guarant              |             | mbient   |                         | °C     |                  |   |                  |                 | (                | - 35 (≦80%RH     | 1)                |                  |                   |                 |                   |
| operatin<br>range*1  | g Ou        | utdoor   | Heating                 | °C     |                  |   |                  |                 | See ou           | tdoor unit spe   | ec table          |                  |                   |                 |                   |
| range-               |             |          | Cooling                 | °C     |                  |   |                  |                 |                  | -                |                   |                  |                   |                 |                   |
| Target               |             | eating   | Room temperature        | °C     |                  |   |                  |                 |                  | 10~30            |                   |                  |                   |                 |                   |
| tempera<br>range     | ture        |          | Flow temperature        | °C     |                  |   |                  |                 |                  | 20~60            |                   |                  |                   |                 |                   |
| range                | Co          | ooling   | Room temperature        | °C     |                  |   |                  |                 |                  | -                |                   |                  |                   |                 |                   |
|                      |             |          | Flow temperature        | °C     |                  |   |                  |                 |                  | -                |                   |                  |                   |                 |                   |
| DHW tar              |             | ax. hot  | water temperature       | °C     |                  | 70  |                  | *3              |                  |                  | 70                |                  |                   | *3              | 70                |
| perform              | ance Wa     | ater hea | ater emergy efficiency  | class  |                  |   |                  |                 |                  | A+               |                   |                  |                   |                 | •                 |
| Sound p              | ressure lev | el (PWI  | L)                      | dB (A) |                  | 40  |                  |                 |                  |                  |                   |                  |                   |                 |                   |

- \*1 The indoor environment must be frost-free.
  \*2 Do not fit immersion heaters without thermal cut-out. Use only Mitsubishi Electric service parts as a direct replacement.
  \*3 For the model without booster heater and immersion heater, the maximum allowable hot water temperature is 3°C lower than maximum outlet water of outdoor unit. For the maximum outlet water of outdoor unit, refer to outdoor unit data book.

| Model n             | ame     |         |                  |                             |        | ERPT17X-<br>VM2D            | ERPT20X-<br>MD                        | ERPT20X-<br>VM2D | ERPT20X-<br>VM6D | ERPT30X-<br>VM2FD | ERPT30X |
|---------------------|---------|---------|------------------|-----------------------------|--------|-----------------------------|---------------------------------------|------------------|------------------|-------------------|---------|
|                     |         | [       | Туре             | •                           |        | VIIIZO                      |                                       |                  | nd cooling       | VIIIZED           | VIIIOEB |
|                     |         |         |                  | ersion heater               |        | _                           | _                                     | _                | -                | _                 | _       |
|                     |         |         | Expansion vessel | Expansion vessel            |        | /                           | /                                     | /                | /                | _                 | -       |
|                     |         |         | Boos             | ster heater                 |        | /                           | / - / /                               |                  |                  |                   | /       |
| Dimensi             | ions    |         | H×W              | /×D                         | mm     | 1400×595×680                |                                       | 1600×595×680     | 2050×5           | 95×680            |         |
| Weight (            | (empty) |         |                  |                             | kg     | 86                          | 93 94 95                              |                  |                  | 107               | 108     |
| Control             | board p | ower:   | suppl            | y (Phase / V / Hz)          |        |                             |                                       | ~/N, 23          | 0V, 50Hz         |                   |         |
| Heater              |         |         | Hz)              | ~/N, 230V, 50Hz             | -      |                             | ~/N, 23                               | 0V, 50Hz         |                  |                   |         |
|                     | heate   | ·       | Capa             | acity                       | kW     | 2                           | -                                     | 2                | 2+4              | 2                 | 2+4     |
|                     |         | Current |                  | А                           | 9      | -                           | 9                                     | 26               | 9                | 26                |         |
|                     |         |         |                  | ker size                    | Α      | 16                          | -                                     | 16               | 32               | 16                | 32      |
|                     |         | h++2 -  |                  | Power supply (Phase / V / I |        | -                           | -                                     | -                | -                | -                 | -       |
|                     | heate   |         |                  | Capacity                    |        | -                           | -                                     | -                | -                | -                 | -       |
|                     |         |         |                  | Current                     |        | -                           | -                                     | -                | -                | -                 | -       |
|                     |         |         |                  | Breaker size                |        | -                           | -                                     | -                | -                | -                 | -       |
| Domesti<br>hot wate |         | Volu    | me / N           | Material                    | L/-    | 170 /<br>Stainless<br>steel | 200 / Stainless steel 300 / Stainless |                  |                  |                   |         |
| Guarant             |         | Amb     | ient             |                             | °C     | ·                           |                                       | 0 - 35 (≦        | 80%RH)           |                   |         |
| operatin<br>range*1 | ıg      | Outd    | oor              | Heating                     | °C     |                             |                                       | See outdoor      | unit spec table  | ,                 |         |
| range .             |         |         |                  | Cooling                     | °C     |                             |                                       | See outdoor u    | nit spec table   | 4                 |         |
| Target              |         | Heati   | ing              | Room temperature            | °C     |                             |                                       | 10               | ~30              |                   |         |
| tempera<br>range    | iture   |         |                  | Flow temperature            | °C     |                             |                                       | 20               | ~60              |                   |         |
| ·ungo               |         | Cooli   | ing              | Room temperature            | °C     |                             |                                       |                  | -                |                   |         |
|                     |         |         |                  | Flow temperature            | °C     |                             |                                       | 5~               | 25               |                   |         |
| DHW tai             |         | Max.    | hot v            | water temperature           | °C     | 70                          | *3                                    |                  | 7                | 0                 |         |
| perform             | ance    | Wate    | r hea            | ter emergy efficiency       | class  |                             |                                       | <b>\</b> +       |                  |                   | Д       |
| Sound p             | ressure | level   | (PWL             | .)                          | dB (A) |                             |                                       | 4                | 10               |                   |         |

- \*1 The indoor environment must be frost-free.

  \*2 Do not fit immersion heaters without thermal cut-out. Use only Mitsubishi Electric service parts as a direct replacement.

  \*3 For the model without booster heater and immersion heater, the maximum allowable hot water temperature is 3°C lower than maximum outlet water of outdoor unit.

  For the maximum outlet water of outdoor unit.

  For the maximum outlet water of outdoor unit, refer to outdoor unit data book.

  \*4 During cooling operation at low outdoor temperature (10°C or lower), frozen water may cause damage on plate heat exchanger.



# Packaged Type Specifications

| <hydro< th=""><th>box (</th><th>Hea</th><th>ting</th><th>only)&gt;</th><th></th><th></th><th></th><th></th><th></th><th></th></hydro<> | box (                                       | Hea  | ting | only)>                  |        |                 |               |               |               |                |
|--|---|------|------|-------------------------|--------|-----------------|---------------|---------------|---------------|----------------|
| Model n  | ame   |      |      |                         |        | EHPX-<br>MED    | EHPX-<br>VM2D | EHPX-<br>VM6D | EHPX-<br>YM9D | EHPX-<br>YM9ED |
|  |   |      | Тур  | e                       |        | Heating only    |               |               |               |                |
|  |   |      | lmn  | nersion heater          |        | -               | -             | -             | -             | -              |
|  |   |      | Exp  | ansion vessel           |        | -               | 1             | 1             | 1             | -              |
|  |   |      | Boo  | ster heater             |        | _ / / / /       |               |               |               |                |
| Dimensi  | ons   |      | H×V  | V×D                     | mm     | 800×530×360     |               |               |               |                |
| Weight (   | Weight (empty)                              |      |      |                         | kg     | 25              | 32            | 33            | 33            | 28             |
| Control I  | Control board power supply (Phase / V / Hz) |      |      | ly (Phase / V / Hz)     |        | ~/N, 230V, 50Hz |               |               |               |                |
| Heater   | Boost                                       |      | Pov  | ver supply (Phase / V / | Hz)    | -               | ~/N, 230      | V, 50Hz       | 3~, 400       | V, 50Hz        |
|  | heate                                       | r    | Cap  | acity                   | kW     | -               | 2             | 2+4           | 3+6           | 3+6            |
|  |   |      | Cur  | rent                    | Α      | -               | 9             | 26            | 13            | 13             |
|  |   |      | Bre  | aker size               | Α      | -               | 16 32 16 1    |               |               |                |
| Guarant  |   | Amb  | ient |                         | °C     | 0~35 (≦80%RH)   |               |               |               |                |
| operatin<br>range*1  | g   | Outo | loor | Heating                 | °C     |                 | See outd      | oor unit s    | pec table     |                |
| range  |   |      |      | Cooling                 | °C     |                 |               | -             |               |                |
| Target   |   | Heat | ing  | Room temperature        | °C     |                 |               | 10~30         |               |                |
|  | temperature range                           |      |      | Flow temperature        | °C     |                 |               | 20~60         |               |                |
| range  |   |      | ing  | Room temperature        | °C     |                 |               | -             |               |                |
|  |   |      |      | Flow temperature        | °C     | -               |               |               |               |                |
| Sound p  | Sound pressure level (PWL)                  |      |      | L)                      | dB (A) |                 |               | 40            |               |                |

| *1 The | indoor | environment | must | be fro | st-free. |
|--------|--------|-------------|------|--------|----------|

| <hydro< th=""><th>box</th><th>(Reve</th><th>ersil</th><th>ole)&gt;</th><th></th><th>(NEW)</th><th>NEW</th><th>NEW</th><th>NEW</th></hydro<> | box   | (Reve    | ersil                         | ole)>            |        | (NEW)               | NEW           | NEW           | NEW            |  |
|---|---|----------|-------------------------------|------------------|--------|---------------------|---------------|---------------|----------------|--|
| Model na  | ame   |          |                               |                  |        | ERPX-<br>MD         | ERPX-<br>VM2D | ERPX-<br>VM6D | ERPX-<br>YM9D  |  |
|   |   |          | Тур                           | e                |        | Heating and cooling |               |               |                |  |
|   |   | Ī        | lmn                           | nersion heater   |        | -                   | -             | -             | -              |  |
|   |   | İ        | Exp                           | ansion vessel    |        | /                   | /             |               |                |  |
|   |   | ı        | Boo                           | ster heater      |        | -                   | 1             | /             | /              |  |
| Dimensi   | ons   |          | H×V                           | V×D              | mm     | 800×530×360         |               |               |                |  |
| Weight (  | empty)                                      | <u> </u> |                               |                  | kg     | 30 33 34 35         |               |               |                |  |
| Control I   | Control board power supply (Phase / V / Hz) |          |                               |                  |        | ~/N, 230V, 50Hz     |               |               |                |  |
| Heater  | Boost                                       |          | Power supply (Phase / V / Hz) |                  |        | -                   | ~/N, 230      | V, 50Hz       | 3~, 400V, 50Hz |  |
|   | heate                                       | r i      | Cap                           | acity            | kW     | -                   | 2             | 2+4           | 3+6            |  |
|   |   |          | Cur                           | rent             | Α      | -                   | 9             | 26            | 13             |  |
|   |   | l        | Bre                           | aker size        | Α      | -                   | 16            | 32            | 16             |  |
| Guarante  |   | Amb      | ient                          |                  | °C     | 0~35 (≦80%RH)       |               |               |                |  |
| operating<br>range*1  | g   | Outd     | oor                           | Heating          | °C     | Se                  | e outdoor u   | nit spec tab  | le             |  |
| range .   |   |          |                               | Cooling          | °C     | See                 | outdoor un    | it spec table | e *2           |  |
| Target  |   | Heati    | ing                           | Room temperature | °C     |                     | 10-           | -30           |                |  |
| temperature   |   |          |                               | Flow temperature | °C     |                     | 20-           | -60           |                |  |
| range   |   | Cooli    | oling Room temperature        |                  | °C     |                     | -             |               |                |  |
|   |   |          |                               | Flow temperature | °C     |                     | -             |               |                |  |
| Sound p   | Sound pressure level (PWL)                  |          |                               | _)               | dB (A) |                     | 4             | 0             |                |  |

- \*1 The indoor environment must be frost-free.
- \*2 If you use our system in cooling mode at the low ambient temperature ( 10°C or below), there are some risks of plate heat exchanger breaking by frozen water.



<sup>\*</sup>Rated capacity is at conditions A2W35. (according to EN14511)

| Dutdoor            | unit                   |                 |       |                 |                  |                   |                    | NEW                 |
|--------------------|------------------------|-----------------|-------|-----------------|------------------|-------------------|--------------------|---------------------|
| Model name         |                        |                 |       | PUZ-<br>WM50VHA | PUZ-<br>WM60VAA  | PUZ-<br>WM85V/YAA | PUZ-<br>WM112V/YAA | PUZ-<br>HWM140V/YHA |
| Refrigerant        |                        |                 |       |                 |                  | R32*1             |                    |                     |
| Dimensions         |                        | H×W×D           | mm    | 943×950×330     | 1020×1050×480    | 1020×1050×480     | 1020×1050×480      | 1350×1020×330       |
| Weight             |                        |                 | kg    | 71              | 98               | 98/111            | 119/132            | 132/143             |
| Power supply       | (V / Phase)            | / Hz)           |       | VHA • VAA:      | 230 / 1-ph / 50, | YHA • YAA: 40     | 0 / 3-ph / 50      |                     |
| Heating            | A7W35*2                | Nominal         | kW    | 5.0             | 6.0              | 8.5               | 11.2               | 14.0                |
|                    |                        | COP             |       | 5.00            | 5.06             | 4.80              | 4.70               | 4.46                |
|                    | A2W35*2                | Nominal         | kW    | 5.0             | 6.0              | 8.5               | 11.2               | 14.0                |
|                    |                        | COP             |       | 3.70            | 3.75             | 3.51              | 3.44               | 3.15                |
| Average clim       |                        | Class           |       | A+++            | A+++             | A+++              | A+++               | A+++                |
| outlet 35°C*3      |                        | η <sub>s</sub>  |       | 183             | 190              | 193/190           | 191/189            | 176/175             |
|                    |                        |                 | Class |                 | A++              | A++               | A++                | A++                 |
| outlet 55°C*3      |                        |                 | 129   | 142             | 139/138          | 134/133           | 132/131            |                     |
|                    | DHW 200L(L) Load Class |                 | 3     | A <sup>+</sup>  | A+               | A+                | A+                 | A+                  |
| Profile (Average   | ge climate)*4          | η <sub>wh</sub> |       | 135             | 145              | 145               | 148                | 130                 |
| Max outlet w       | ater temper            | ature (°C)      |       | 60              | 60               | 60                | 60                 | 60                  |
| Cooling            | A35W7*2                | Nominal         | kW    | 4.5             | 6.0              | 7.5               | 10.0               | 11.9                |
|                    |                        | EER             |       | 3.40            | 3.30             | 3.15              | 3.30               | 3.00                |
|                    | A35W18*2               | Nominal         | kW    | 4.5             | 6.0              | 7.5               | 10.0               | 11.1                |
|                    |                        | EER             |       | 5.00            | 4.45             | 4.90              | 4.90               | 4.10                |
| PWL (Heating       | g)* <sup>5</sup>       |                 | dB(A) | 61              | 58               | 58                | 60                 | 67                  |
| Max operatin       | g current              |                 | А     | 13.0            | 13.0             | 22.0/11.5         | 28.0/13.0          | 35.0/13.0           |
| Breaker size       |                        |                 | Α     | 16              | 16               | 25/16             | 32/16              | 40/16               |
| Piping             | Diameter               | Liquid/Gas      | mm    | -               | -                | -                 | -                  | -                   |
|                    | Length                 | Out-In          | m     | -               | -                | -                 | -                  | -                   |
|                    | Height                 | Out-In          | m     | -               | -                | -                 | -                  | -                   |
| Guaranteed         | Heating                |                 | °C    | -20°C~21°C      | -20°C~21°C       | -20°C~21°C        | -25°C~21°C         | -28°C~21°C          |
| Operating<br>Range | DHW                    |                 | °C    | -20°C~35°C      | -20°C~35°C       | -20°C~35°C        | -25°C~35°C         | -28°C~35°C          |
| nange              | Cooling                |                 | °C    | 10°C~46°C       | 10°C~46°C        | 10°C~46°C         | 10°C~46°C          | 10°C~46°C           |

- \*1 Refrigerant leakage contribute to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atomosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional yourself or disassemble the product yourself and always ask a professional.

  The GWP of R32 is 675 in the IPCC 4th Assessment Report.

  \*2 Air-to-Water values are measured based on EN14511 (Circulation pump
- \*2 Air-to-Water values are measured based on EN14b input is not included.).

  \*3 ηs values are measured based on EN16145.

  \*4 ηwh values are measured based on EN16147.

  \*5 Sound power levels are measured based on EN12102.

# **Optional Parts**

# Split type <Indoor unit>

| Parts name                 | Model name      | Cylinder | Hydrobox | Remarks                                     |
|----------------------------|-----------------|----------|----------|---|
| Wireless remote controller | PAR-WT50R-E     | V        | V        |   |
| Wireless receiver          | PAR-WR51R-E     | V        | V        |   |
| Thermistors                | PAC-SE41TS-E    | V        | V        | For room temp.                              |
|                            | PAC-TH011-E     | V        | V        | For buffer and zone (flow and return temp.) |
|                            | PAC-TH011TK2-E  | -        | V        | For tank temp. (5m)                         |
|                            | PAC-TH011TKL2-E | -        | V        | For tank temp. (30m)                        |
|                            | PAC-TH012HT-E   | V        | V        | For boiler and buffer (5m)                  |
|                            | PAC-TH012HTL-E  | V        | V        | For boiler and buffer (30m)                 |
| Immersion heater           | PAC-IH01V2-E    | V        | -        | 1Ph 1kW                                     |
|                            | PAC-IH03V2-E    | V        | -        | 1Ph 3kW                                     |
| Joint pipe                 | PAC-SG72RJ-E    | V        | V        | For PUHZ-SW75 ø6.35 → ø9.52                 |
|                            | PAC-SG73RJ-E    | -        | V        | For PUHZ-SW200YKA/SHW230YKA2 ø9.52 → ø12.7  |
|                            | PAC-SG74RJ-E    | V        | V        | For PUHZ-SW75 ø12.7 → ø15.88                |
|                            | PAC-SH30RJ-E    | V        | V        | For PUHZ-SW75AA ø9.52 → 6.35                |
|                            | PAC-SH50RJ-E    | V        | V        | For PUHZ-SW75AA ø15.88 → 12.7               |
| Wi-Fi interface            | MAC-567IF-E     | レ        | V        |   |
| 2 Zone kit                 | PAC-TZ02-E      | V        | V        |   |
| Expansion vessel           | PAC-EVP12-E1    | V        | -        | 12L   |

# <Outdoor unit>

| Parts name                                       | Model name     | R           | 32 (Eco Inverte | er)         | R3           | 2 Heating only | (Power Inver    | ter)            |               | R32 Hea         | ating only (ZUI  | BADAN)           |                  |
|--|----------------|-------------|-----------------|-------------|--------------|----------------|-----------------|-----------------|---------------|-----------------|------------------|------------------|------------------|
|  |                | SUZ-SWM40VA | SUZ-SWM60VA     | SUZ-SWM80VA | PUD-SWM60VAA | PUD-SWM80V/YAA | PUD-SWM100V/YAA | PUD-SWM120V/YAA | PUD-SHWM60VAA | PUD-SHWM80V/YAA | PUD-SHWM100V/YAA | PUD-SHWM120V/YAA | PUD-SHWM140V/YAA |
| Connector for drain hose<br>heater signal output | PAC-SE60RA-E   | -           | -               | -           | V            | v              | v               | L               | V             | V               | V                | V                | v                |
| Air discharge guide                              | MAC-886SG-E    | V           | V               | V           | -            | -              | -               | -               | -             | -               | -                | -                | -                |
|  | PAC-SG59SG-E   | -           | -               | -           | -            | -              | -               | -               | -             | -               | -                | -                | -                |
|  | PAC-SH96SG-E*1 | -           | -               | -           | レ*1          | レ*1            | レ*1             | レ*1             | レ*1           | レ*1             | レ*1              | <b>レ</b> ∗1      | <b>レ</b> ∗1      |
| Air protection guide                             | PAC-SH63AG-E   | -           | -               | -           | -            | -              | -               | -               | -             | -               | -                | -                | -                |
|  | PAC-SH95AG-E*1 | -           | -               | -           | レ*1          | レ*1            | レ*1             | レ*1             | レ*1           | レ*1             | レ*1              | レ*1              | レ*1              |
| Attachement                                      | PAC-SJ82AT-E   | -           | -               | -           | V            | V              | V               | V               | V             | V               | レ                | V                | レ                |
| Drain socket*2                                   | PAC-SG61DS-E   | -           | -               | -           | V            | V              | V               | V               | レ             | V               | V                | V                | V                |
| Centralized drain pan*2                          | PAC-SG64DP-E   | -           | -               | -           | -            | -              | -               | -               | -             | -               | -                | -                | -                |
|  | PAC-SH97DP-E   | -           | -               | -           | -            | -              | -               | -               | -             | -               | -                | -                | -                |
|  | PAC-SJ83DP-E   | -           | -               | -           | V            | V              | V               | V               | V             | V               | V                | V                | V                |
| Base heater                                      | MAC-642BH-U1   | V           | V               | V           | -            | -              | -               | -               | -             | -               | -                | -                | -                |
| Control/Service tool                             | PAC-SK52ST     | -           | -               | -           | V            | V              | V               | V               | V             | V               | レ                | V                | レ                |

<sup>\*1</sup> Attachment (PAC-SJ82AT-E) is necessary for the Air guide \*2 Cannot be used for cold climate.

| Parts name                                       | Model name   |                | R41             | 0A (Power Inv   | erter)        |               |                 | R410A (Z         | (UBADAN)       |                 |
|--|--------------|----------------|-----------------|-----------------|---------------|---------------|-----------------|------------------|----------------|-----------------|
|  |              | PUHZ-SW75V/YAA | PUHZ-SW100V/YAA | PUHZ-SW120V/YHA | PUHZ-SW160YKA | PUHZ-SW200YKA | PUHZ-SHW80V/YAA | PUHZ-SHW112V/YAA | PUHZ-SHW140YHA | PUHZ-SHW230YKA2 |
| Connector for drain hose<br>heater signal output | PAC-SE60RA-E | L              | L               | v               | V             | ·             | L               | V                | v              | v               |
| Air discharge guide                              | MAC-886SG-E  | -              | -               | -               | -             | -             | -               | -                | -              | -               |
|  | PAC-SG59SG-E | -              | -               | V               | -             | -             | -               | -                | V              | -               |
|  | PAC-SH96SG-E | V              | V               | V               | V             | V             | V               | V                | -              | V               |
| Air protection guide                             | PAC-SH63AG-E | -              | -               | V               | -             | -             | -               | -                | V              | -               |
|  | PAC-SH95AG-E | V              | V               | -               | V             | V             | V               | V                | -              | レ               |
| Attachement                                      | PAC-SJ82AT-E | V              | V               | -               | -             | -             | V               | V                | -              | V               |
| Drain socket*2                                   | PAC-SG61DS-E | V              | V               | V               | V             | V             | V               | レ                | -              | -               |
| Centralized drain pan*2                          | PAC-SG64DP-E | -              | -               | V               | -             | -             | -               | -                | -              | -               |
|  | PAC-SH97DP-E | -              | -               | -               | V             | V             | -               | -                | -              | -               |
|  | PAC-SJ83DP-E | V              | V               | -               | -             | -             | V               | レ                | -              | -               |
| Base heater                                      | MAC-642BH-U1 | -              | -               | -               | -             | -             | -               | -                | -              | -               |
| Control/Service tool                             | PAC-SK52ST   | V              | V               | L               | V             | V             | レ               | レ                | ~              | V               |

<sup>\*1</sup> Attachment (PAC-SJ82AT-E) is necessary for the Air guide \*2 Cannot be used for cold climate.

# Interface/Flow Temperature Controller

# Split type

| Parts name                      | Model name     | Description           |
|---------------------------------|----------------|-----------------------|
| Capacity step control interface | PAC-IF011B-E   | 1 PC board w/ Case    |
| Flow temperature controller     | PAC-IF032B-E   | 1 PC board w/ Case    |
|                                 | PAC-IF033B-E   | 1 PC board w/ Case    |
|                                 | PAC-IF033PCB-E | 10 PC board w/o case  |
| System Controllers              | PAC-IF071B-E   | 1 PC board w/ Case    |
| Pressure sensor                 | PAC-PS01-E     | For SUZ-SWM40/60/80VA |
| Flow sensor                     | PAC-FS01-E     |                       |
| Thermistor                      | PAC-TH011-E    |                       |

# **Optional Parts**

# Packaged type

### <Indoor unit>

| Parts name                 | Model name      | Cylinder                 | Hydrobox | Remarks                                     |
|----------------------------|-----------------|--------------------------|----------|---|
| Wireless remote controller | PAR-WT50R-E     | V                        | V        |   |
| Wireless receiver          | PAR-WR51R-E     | V                        | V        |   |
| Thermistors                | PAC-SE41TS-E    | V                        | V        | For room temp.                              |
|                            | PAC-TH011-E     | L                        | V        | For buffer and zone (flow and return temp.) |
|                            | PAC-TH011TK2-E  | -                        | V        | For tank temp. (5m)                         |
|                            | PAC-TH011TKL2-E | -                        | V        | For tank temp. (30m)                        |
|                            | PAC-TH012HT-E   | V                        | V        | For boiler and buffer (5m)                  |
|                            | PAC-TH012HTL-E  | V                        | V        | For boiler and buffer (30m)                 |
| Immersion heater           | PAC-IH01V2-E    | ✓ (Except EHPT20X-MHEDW) | -        | 1Ph 1kW                                     |
|                            | PAC-IH03V2-E    | ✓ (Except EHPT20X-MHEDW) | -        | 1Ph 3kW                                     |
| EHPT accessories for UK    | PAC-WK02UK-E    | V                        | -        |   |
| Wi-Fi interface            | MAC-567IF-E     | V                        | V        |   |
| 2 Zone kit                 | PAC-TZ02-E      | V                        | V        |   |
| Expansion vessel           | PAC-EVP12-E1    | V                        | -        | 12L   |

# Interface/Flow Temperature Controller

# Packaged type

| Parts name                  | Model name     | Description          |
|-----------------------------|----------------|----------------------|
| Flow temperature controller | PAC-IF033B-E   | 1 PC board w/ Case   |
|                             | PAC-IF033PCB-E | 10 PC board w/o case |
| System Controllers          | PAC-IF072B-E   |                      |
| Flow sensor                 | PAC-FS01-E     |                      |
| Thermistor                  | PAC-TH011-E    |                      |

# <Outdoor unit>

| Parts name                                    | Model name   |             | R32 (Po     | wer Inverter) |                |                 |
|---|--------------|-------------|-------------|---------------|----------------|-----------------|
|   |              | PUZ-WM50VHA | PUZ-WM60VAA | PUZ-WM85V/YAA | PUZ-WM112V/YAA | PUZ-HWM140V/YHA |
| Connector for drain hose heater signal output | PAC-SE60RA-E | v           | v           | v             | v              | v               |
| Air discharge guide                           | PAC-SG59SG-E | V           | -           | -             | -              | v               |
|   | PAC-SH96SG-E | -           | V*          | <b>レ</b> ∗    | V*             | -               |
| Air protection guide                          | PAC-SH63AG-E | V           | -           | -             | -              | V               |
|   | PAC-SH95AG-E | -           | V*          | <b>レ</b> ∗    | <b>レ</b> ∗     | -               |
| Attachement                                   | PAC-SJ82AT-E | -           | v           | レ             | V              | -               |
| Drain socket                                  | PAC-SG61DS-E | レ           | V           | レ             | V              | -               |
| Centralized drain pan                         | PAC-SG64DP-E | レ           | -           | -             | -              | -               |
|   | PAC-SJ83DP-E | -           | レ           | レ             | V              | -               |

<sup>\*</sup>Attachment (PAC-SJ82AT-E) is necessary for the Air Guide.



# **Ground Source Heat Pump Specifications**

|                            |                 |                         |              | Specification with 38% propylene gly |
|----------------------------|-----------------|-------------------------|--------------|--------------------------------------|
| Model name                 |                 |                         |              | EHGT17D-YM9ED                        |
| Heating Capacity (Min-Max) |                 |                         |              | 2.5-10.0kW                           |
| Heat Output B0/W35 (Rated) | 1               |                         |              | 5.0kW                                |
| COP B0/W35                 |                 |                         |              | 4.58                                 |
| SCOP (Average Climate)     | Low Temp        |                         |              | 5.27                                 |
|                            | Rank            |                         |              | A+++                                 |
|                            | ηs*2            |                         |              | 203%                                 |
|                            | Mid Temp        |                         |              | 3.96                                 |
|                            | Rank            |                         |              | A+++                                 |
|                            | ηs*2            |                         |              | 150%                                 |
| Load Profile               | Лwh             |                         |              | 134%                                 |
| Average Climate)*3         | Rank            |                         |              | A <sup>+</sup>                       |
| Sound Power Level (Rated)  | +4              |                         |              | 42dB(A)                              |
| Refrigerant /Amount        |                 |                         |              | R32*1/0.9kg                          |
| GWP                        |                 |                         |              | 608                                  |
| Dimensions (HxWxD)         |                 |                         |              | 1,750mm×595mm×680mm                  |
| DHW Tank                   |                 |                         |              | 170L                                 |
| Veight                     |                 |                         |              | Unit 181kg                           |
| lectrical data             |                 | Heat pump               | Power supply | 3ph/400V/50Hz                        |
|                            |                 |                         | Max current  | 8A                                   |
|                            |                 |                         | Breaker      | 16A                                  |
|                            |                 | Booster heater          | Power supply | 3ph/400V/50Hz                        |
|                            |                 |                         | Capacity     | 3kW+6kW                              |
|                            |                 |                         | Current      | 13A                                  |
|                            |                 |                         | Breaker      | 16A                                  |
| Connections                | Water           | Primary circuit         |              | ø28mm                                |
|                            |                 | DHW circuit             |              | ø22mm                                |
|                            | Brine           | Brine circuit           |              | ø28mm                                |
| Operating range            | Heating         | Room temperature        |              | 10~30°C                              |
|                            |                 | Flow temperature        |              | 20~60°C                              |
|                            | DHW             |                         |              | 40~60°C                              |
|                            | Legionella prev | vention                 |              | 60~70°C                              |
| Guaranteed operating range |                 | Ambient                 |              | 0~35°C                               |
| saarantooa oporating range |                 | 7 till Storie           |              | ≦80%RH                               |
|                            |                 | Water outlet temperatur |              | 20~60°C                              |
|                            |                 | Brine inlet temperature |              | -8~30°C                              |
|                            |                 | Min. brine outlet tempe | ratura       | -12°C                                |
| low rate range             |                 | Primary circuit         | Max.         | 27.7L/min                            |
| iow rate range             |                 | r illiary circuit       | Min.         | 7.1L/min                             |
|                            |                 | Brine circuit           | Max.         | 27.7L/min                            |
|                            |                 | Drine circuit           | Min.         | 7.1L/min                             |
| last saures fluid turs     |                 |                         | IVIIN.       |                                      |
| Heat source fluid type     |                 |                         |              | 29 WT% Bioethanol                    |
|                            |                 |                         |              | 38 WT% Propylene glycol              |
|                            |                 |                         |              | 25 WT% Ethylene glycol               |

<sup>\*1</sup> Refrigerant leakage contribute to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atomosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

\*2 ns values are measured based on EN14825. \*3 nwh values are measured based on EN16147. \*4 Sound power levels are measured based on EN12102.

# D Generation

# **Combination Table**

# Split Indoor/outdoor unit

| combination               | utdoor unit                   |             |             |             |              |                | R               | 32              |               |                 |                  |                  |                  |                |                 |                 | R             | R410          | Α               |                  |                |                 | Hyb            | TA/<br>rid         |                    |                     |
|---------------------------|-------------------------------|-------------|-------------|-------------|--------------|----------------|-----------------|-----------------|---------------|-----------------|------------------|------------------|------------------|----------------|-----------------|-----------------|---------------|---------------|-----------------|------------------|----------------|-----------------|----------------|--------------------|--------------------|---------------------|
|                           |                               |             | Po          | owe         | r in         | vert           | er              |                 |               | ZUI             | BAD              | AN               |                  | Po             | owe             | r in            | vert          | er            | z               | UBA              | ADA            | N               | Mr.<br>SLIM+   | Р                  | UN                 | ΙΥ                  |
|                           |                               | SUZ-SWM40VA | SUZ-SWM60VA | SUZ-SWM80VA | PUD-SWM60VAA | PUD-SWM80V/YAA | PUD-SWM100V/YAA | PUD-SWM120V/YAA | PUD-SHWM60VAA | PUD-SHWM80V/YAA | PUD-SHWM100V/YAA | PUD-SHWM120V/YAA | PUD-SHWM140V/YAA | PUHZ-SW75V/YAA | PUHZ-SW100V/YAA | PUHZ-SW120V/YHA | PUHZ-SW160YKA | PUHZ-SW200YKA | PUHZ-SHW80V/YAA | PUHZ-SHW112V/YAA | PUHZ-SHW140YHA | PUHZ-SHW230YKA2 | PUHZ-FRP71VHA2 | PUMY-P112V/YKM(E)4 | PUMY-P125V/YKM(E)4 | PLIMY-P140V/VKM/EVA |
| Heating only              | EHST17D-VM2D                  | •           | •           | •           | •            | •              |                 |                 | •             | •               |                  |                  |                  | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    |                     |
| Cylinder                  | EHST17D-YM9D                  | •           | •           | •           | •            | •              |                 |                 | •             | •               |                  |                  |                  | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    |                     |
|                           | EHST20D-MED                   | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    |                     |
|                           | EHST20D-VM2D                  | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    |                     |
|                           | EHST20D-VM6D                  | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    | H                   |
|                           | EHST20D-YM9D<br>EHST20D-YM9ED | •           | •           | •           | •            | •              | •               | •               | •             | •               | -                | •                | •                | •              |                 |                 |               |               | H               |                  |                | _               |                |                    | H                  | H                   |
|                           | EHST20D-TM9D                  | •           | •           | •           | •            | -              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               | $\vdash$        |                  |                | _               |                |                    | $\vdash$           | H                   |
|                           | EHST30D-MED                   | •           | •           | •           | •            | •              | •               | ÷               | •             | -               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    | H                   |
|                           | EHST30D-VM6ED                 | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    | H                   |
|                           | EHST30D-YM9ED                 | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    |                     |
|                           | EHST30D-TM9ED                 | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    | T                   |
|                           | EHST20C-MED                   |             |             | Π           |              |                | П               |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 | •              |                    |                    | T                   |
|                           | EHST20C-VM2D                  |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 | •              | •                  | •                  | •                   |
|                           | EHST20C-VM6D                  |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 | •              | •                  | •                  | •                   |
|                           | EHST20C-YM9D                  |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 | •              | •                  | •                  | •                   |
|                           | EHST20C-YM9ED                 |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 | •              | •                  | •                  | •                   |
|                           | EHST20C-TM9D                  |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 | •              | •                  | •                  | •                   |
|                           | EHST30C-MED                   |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 |                |                    |                    | L                   |
|                           | EHST30C-VM6ED                 |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 |                |                    |                    | L                   |
|                           | EHST30C-YM9ED                 | ┡           |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 |                |                    |                    | L                   |
| Damasible                 | EHST30C-TM9ED                 |             |             | _           |              |                |                 |                 |               |                 |                  |                  |                  | _              | •               | •               |               |               | •               | •                | •              |                 |                |                    |                    | L                   |
| Reversible<br>Cylinder    | ERST17D-VM2D                  | •           | •           | •           | •            | •              |                 |                 | •             | •               |                  |                  |                  | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    |                     |
|                           | ERST17D-VM6D<br>ERST20D-VM2D  | •           | •           | •           | -            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    | H                   |
|                           | ERST20D-VM6D                  | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    | H                   |
|                           | ERST20D-YM9D                  | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    | H                   |
|                           | ERST30D-VM2ED                 | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               | Н               |                  |                |                 |                |                    | Н                  | t                   |
|                           | ERST30D-VM6ED                 | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    | T                   |
|                           | ERST30D-YM9ED                 | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    | T                   |
|                           | ERST20C-VM2D                  |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 |                |                    |                    |                     |
|                           | ERST20C-VM6D                  |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 |                |                    |                    |                     |
|                           | ERST20C-YM9D                  |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 |                |                    |                    |                     |
|                           | ERST30C-VM2ED                 |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 |                |                    |                    | L                   |
|                           | ERST30C-VM6ED                 |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 |                |                    |                    | L                   |
|                           | ERST30C-YM9ED                 | L           |             | _           | _            | L              | L               | _               | L             |                 | _                | _                |                  | _              | •               | •               |               |               | •               | •                | •              |                 |                |                    |                    | L                   |
| Heating only<br>Hydro box | EHSD-MED                      | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    | L                   |
|                           | EHSD-VM2D                     | •           | •           | •           | •            | •              | •               | -               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    |                     |
|                           | EHSD-VM6D                     | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    | H                   |
|                           | EHSD-YM9D<br>EHSD-YM9ED       | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    | H                   |
|                           | EHSD-TM9D                     | •           | •           | •           | •            | •              | •               | ÷               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    | H                   |
|                           | EHSC-MED                      | ř           | Ť           | Ť           | Ť            | Ť              | Ť               | Ť               | Ť             | Ť               | Ť                | Ť                | Ť                | Ť              | •               | •               |               |               | •               | •                | •              |                 | •              |                    |                    | H                   |
|                           | EHSC-VM2D                     |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 | •              | •                  | •                  | •                   |
|                           | EHSC-VM6D                     |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 | •              | •                  | •                  | •                   |
|                           | EHSC-YM9D                     | Г           |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 | •              | •                  | •                  | •                   |
|                           | EHSC-YM9ED                    |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 | •              | •                  | •                  | •                   |
|                           | EHSC-TM9D                     |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                | •               | •               |               |               | •               | •                | •              |                 | •              | •                  | •                  | •                   |
|                           | EHSE-MED                      |             |             |             |              |                |                 |                 |               |                 |                  |                  |                  |                |                 |                 | •             | •             |                 |                  |                | •               |                |                    |                    |                     |
|                           | EHSE-YM9ED                    |             |             |             |              |                | Ц               |                 | Ц             |                 |                  |                  |                  |                | Щ               |                 | •             | •             |                 |                  |                | •               |                | Щ                  |                    | L                   |
| Reversible<br>Hydro box   | ERSD-MED                      | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               | _               |                  |                | _               |                | H                  | L                  | L                   |
|                           | ERSD-VM2D                     | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               | _             | _               |                  | _              |                 |                |                    | L                  | L                   |
|                           | ERSD-VM6D                     | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                |                 |                |                    |                    | $\vdash$            |
|                           | ERSD-YM9D                     | •           | •           | •           | •            | •              | •               | •               | •             | •               | •                | •                | •                | •              |                 |                 |               |               |                 |                  |                | _               |                |                    | $\vdash$           | $\vdash$            |
|                           | ERSC-MED<br>ERSC-VM2D         |             |             | $\vdash$    |              | $\vdash$       | $\vdash$        |                 | $\vdash$      | $\vdash$        | $\vdash$         | $\vdash$         | _                |                | •               | •               |               |               | •               | •                | •              | _               |                | H                  | $\vdash$           | H                   |
|                           | ERSC-VM2D<br>ERSC-VM6D        |             |             | -           |              |                | H               |                 | H             |                 |                  | H                |                  | _              | •               | •               |               |               | -               | •                | •              |                 |                |                    |                    | H                   |
|                           | ERSC-YM9D                     |             |             | $\vdash$    |              |                | $\vdash$        |                 | Н             |                 |                  |                  |                  | $\vdash$       | •               | •               |               |               | •               | •                | •              |                 |                | H                  |                    | H                   |
|                           | ERSE-MED                      | H           |             | $\vdash$    |              |                | Н               |                 | Н             |                 |                  | Н                |                  | $\vdash$       |                 | Ť               | •             | •             | Ť               | Ť                | ۲              | •               |                | Н                  |                    | H                   |
|                           |                               | -           | +           | $\vdash$    | $\vdash$     | $\vdash$       | $\vdash$        | -               | Н             | $\vdash$        | $\vdash$         | Н                | $\vdash$         | $\vdash$       | Н               | $\vdash$        | •             | •             | $\vdash$        |                  | $\vdash$       | •               |                |                    | $\vdash$           | +                   |

# Packaged indoor/outdoor unit

| Packaged indo | or/outdoor unit |             |             | ı            | 32             |                 |
|---------------|-----------------|-------------|-------------|--------------|----------------|-----------------|
|               |                 |             | Po          | wer<br>erte  | r              | ZUBADAN         |
|               |                 |             |             |              |                | ₫               |
|               |                 | PUZ-WM50VHA | PUZ-WM60VAA | UZ-WM85V/YAA | PUZ-WM112V/YAA | PUZ-HWM140V/YHA |
| Heating only  | EHPT17X-VM2D    | •           | •           | •            | _              | _               |
| Cylinder      | EHPT17X-VM6D    | •           | •           | •            |                |                 |
|               | EHPT17X-YM9D    | •           | •           | •            |                |                 |
|               | EHPT20X-MED     | •           | •           | •            | •              | •               |
|               | EHPT20X-VM6D    | •           | •           | •            | •              | •               |
|               | EHPT20X-YM9D    | •           | •           | •            | •              | •               |
|               | EHPT20X-YM9ED   | •           | •           | •            | •              | •               |
|               | EHPT20X-TM9D    | •           | •           | •            | •              | •               |
|               | EHPT20X-MHEDW   | •           | •           | •            | •              | •               |
|               | EHPT30X-MED     |             |             | •            | •              | •               |
|               | EHPT30X-YM9ED   |             |             | •            | •              | •               |
| Reversible    | ERPT17X-VM2D    | •           | •           | •            |                |                 |
| Cylinder      | ERPT20X-VM2D    | •           | •           | •            | •              | •               |
|               | ERPT20X-MD      | •           | •           | •            | •              | •               |
|               | ERPT20X-VM6D    | •           | •           | •            | •              | •               |
|               | ERPT30X-VM2ED   |             |             | •            | •              | •               |
|               | ERPT30X-VM6ED   |             |             | •            | •              | •               |
| Heating only  | EHPX-VM2D       | •           | •           | •            | •              | •               |
| Hydro box     | EHPX-VM6D       | •           | •           | •            | •              | •               |
|               | EHPX-YM9D       | •           | •           | •            | •              | •               |
|               | EHPX-MED        | •           | •           | •            | •              | •               |
|               | EHPX-YM9ED      | •           | •           | •            | •              | •               |
| Reversible    | ERPX-MD         | •           | •           | •            | •              | •               |
| Hydro box     | ERPX-VM2D       | •           | •           | •            | •              | •               |
|               | ERPX-VM6D       | •           | •           | •            | •              | •               |
|               | ERPX-YM9D       | •           | •           | •            | •              | •               |

# MELCloud (Wi-Fi Interface) for ecodan

# MELCloud for Fast, Easy Remote Control and Monitoring of Your ecodan

MELCloud is a new Cloud-based solution for controlling ecodan either locally or remotely by computer, tablet or smartphone via the Internet. Setting up and remotely operating your ecodan heating system via MELCloud is simple and straight forward. All you need is wireless computer connectivity in your home or the building where the ecodan is installed and an Internet connection on your mobile or fixed terminal. To set up the system, the router and the ecodan WiFi interface must be paired, and this is done simply and quickly using the WPS button found on all mainstream routers.

You can control and check ecodan via MELCloud from virtually anywhere an Internet connection is available.

That means, thanks to MELCloud, you can use ecodan much more easily and conveniently.



# **Key Control and Monitoring Features**

- 1 Turn system on/off
- 2 See status of each of your heating zones & adjust set points
- 3 See the status of your hot water cylinder & boost remotely
- 4 Live weather feed from ecodan location

Holiday mode - Set system parameters while away Schedule timer - Set 7 day weekly schedule Frost protection - Set system to run at minimum temperature Error status

6 Check energy usage report\* \*Additional metering hardware is required.



|                      |               |   | For r                                    | nedium-   | temperatu   | re applic  | ation                        |                               |   | Foi                                      | · low-ter   | nperature   | application  | on                           |                               |
|----------------------|---------------|---|--|---|---|--|------------------------------|-------------------------------|---|--|---|---|--|------------------------------|-------------------------------|
|                      |               |   |  |   |   |  |                              |                               |   |  |   |   |  |                              |                               |
| Outdoor unit         | Indoor unit   | Seasonal space heating<br>energy efficiency class | Water heating energy<br>efficiency class | Rated heat output under<br>average climate conditions | Seasonal space heating<br>energy efficiency under<br>average climate conditions | Water heating energy efficiency under average climate conditions | Sound power level LwA indoor | Sound power level Lwa outdoor | Seasonal space heating<br>energy efficiency class | Water heating energy<br>efficiency class | Rated heat output under<br>average climate conditions | Seasonal space heating<br>energy efficiency under<br>average climate conditions | Water heating energy<br>efficiency under average<br>climate conditions | Sound power level LwA indoor | Sound power level Lwa outdoor |
|                      |               |   |  | kW  | %   | %  | dB                           | dB                            |   |  | kW  | %   | %  | dB                           | dB                            |
| SUZ-SWM40VA          | EHST17D-***D  | A++   | A+                                       | 4.6   | 129   | 148  | 41                           | 58                            | A+++  | A+                                       | 5.1   | 180   | 148  | 41                           | 58                            |
|                      | ERST17D-***D  | A++   | A+                                       | 4.6   | 132   | 148  | 41                           | 58                            | A+++  | A+                                       | 5.1   | 187   | 148  | 41                           | 58                            |
|                      | EHST20D-***D  | A++   | A+                                       | 4.6   | 129   | 159  | 41                           | 58                            | A+++  | A+                                       | 5.1   | 180   | 159  | 41                           | 58                            |
|                      | ERST20D-***D  | A++   | A+                                       | 4.6   | 132   | 159  | 41                           | 58                            | A+++  | A <sup>+</sup>                           | 5.1   | 187   | 159  | 41                           | 58                            |
|                      | EHST30D-***D  | A++   | A+                                       | 4.6   | 129   | 128  | 41                           | 58                            | A+++  | A+                                       | 5.1   | 180   | 128  | 41                           | 58                            |
|                      | ERST30D-***D  | A++   | A+                                       | 4.6   | 132   | 128  | 41                           | 58                            | A+++  | A+                                       | 5.1   | 187   | 128  | 41                           | 58                            |
|                      | EHSD-***D     | A++   | -  | 4.6   | 129   | -  | 41                           | 58                            | A+++  | -  | 5.1   | 180   | -  | 41                           | 58                            |
|                      | ERSD-***D     | A++   | -  | 4.6   | 132   | -  | 41                           | 58                            | A+++  | -  | 5.1   | 187   | -  | 41                           | 58                            |
| SUZ-SWM60VA          | EHST17D-***D  | A++   | A+                                       | 6.0   | 130   | 144  | 41                           | 60                            | A+++  | A+                                       | 6.6   | 181   | 144  | 41                           | 60                            |
|                      | ERST17D-***D  | A++   | A+                                       | 6.0   | 133   | 144  | 41                           | 60                            | A+++  | A <sup>+</sup>                           | 6.6   | 187   | 144  | 41                           | 60                            |
|                      | EHST20D-***D  | A++   | A+                                       | 6.0   | 130   | 148  | 41                           | 60                            | A+++  | A <sup>+</sup>                           | 6.6   | 181   | 148  | 41                           | 60                            |
|                      | ERST20D-***D  | A++   | A+                                       | 6.0   | 133   | 148  | 41                           | 60                            | A+++  | A <sup>+</sup>                           | 6.6   | 187   | 148  | 41                           | 60                            |
|                      | EHST30D-***D  | A++   | A+                                       | 6.0   | 130   | 128  | 41                           | 60                            | A+++  | A+                                       | 6.6   | 181   | 128  | 41                           | 60                            |
|                      | ERST30D-***D  | A++   | A+                                       | 6.0   | 133   | 128  | 41                           | 60                            | A+++  | A <sup>+</sup>                           | 6.6   | 187   | 128  | 41                           | 60                            |
|                      | EHSD-***D     | A++   | -  | 6.0   | 130   | -  | 41                           | 60                            | A+++  | -  | 6.6   | 181   | -  | 41                           | 60                            |
|                      | ERSD-***D     | A++   | -  | 6.0   | 133   | -  | 41                           | 60                            | A+++  | -  | 6.6   | 187   | -  | 41                           | 60                            |
| SUZ-SWM80VA          | EHST17D-***D  | A++   | A+                                       | 7.1   | 131   | 144  | 41                           | 62                            | A+++  | A+                                       | 7.1   | 182   | 144  | 41                           | 62                            |
|                      | ERST17D-***D  | A++   | A+                                       | 7.1   | 133   | 144  | 41                           | 62                            | A+++  | A+                                       | 7.1   | 187   | 144  | 41                           | 62                            |
|                      | EHST20D-***D  | A++   | A+                                       | 7.1   | 131   | 148  | 41                           | 62                            | A+++  | A+                                       | 7.1   | 182   | 148  | 41                           | 62                            |
|                      | ERST20D-***D  | A++   | A+                                       | 7.1   | 133   | 148  | 41                           | 62                            | A+++  | A+                                       | 7.1   | 187   | 148  | 41                           | 62                            |
|                      | EHST30D-***D  | A++   | A+                                       | 7.1   | 131   | 128  | 41                           | 62                            | A+++  | A+                                       | 7.1   | 182   | 128  | 41                           | 62                            |
|                      | ERST30D-***D  | A++   | A+                                       | 7.1   | 133   | 128  | 41                           | 62                            | A+++  | A+                                       | 7.1   | 187   | 128  | 41                           | 62                            |
|                      | EHSD-***D     | A++   | -  | 7.1   | 131   | -  | 41                           | 62                            | A+++  | -  | 7.1   | 182   | -  | 41                           | 62                            |
|                      | ERSD-***D     | A++   | -  | 7.1   | 133   | -  | 41                           | 62                            | A+++  | -  | 7.1   | 187   | -  | 41                           | 62                            |
| PUD-SWM60VAA(-BS)    | E*ST17D-***D  | A++   | A+                                       | 6.0   | 130   | 136  | 41                           | 55                            | A+++  | A+                                       | 6.0   | 175   | 136  | 41                           | 55                            |
|                      | E*ST20D-***D  | A++   | A+                                       | 6.0   | 130   | 148  | 41                           | 55                            | A+++  | A+                                       | 6.0   | 175   | 148  | 41                           | 55                            |
|                      | E*ST30D-***D  | A++   | А  | 6.0   | 130   | 121  | 41                           | 55                            | A+++  | Α  | 6.0   | 175   | 121  | 41                           | 55                            |
|                      | E*SD-***D     | A++   | -  | 6.0   | 130   | -  | 41                           | 55                            | A+++  | -  | 6.0   | 175   | -  | 41                           | 55                            |
| PUD-SWM80V/YAA(-BS)  | E*ST17D-***D  | A++   | A+                                       | 8.0   | 131/130   | 136  | 41                           | 56                            | A+++  | A+                                       | 8.0   | 178/176   | 136  | 41                           | 56                            |
|                      | E*ST20D-***D  | A++   | A+                                       | 8.0   | 131/130   | 148  | 41                           | 56                            | A+++  | A <sup>+</sup>                           | 8.0   | 178/176   | 148  | 41                           | 56                            |
|                      | E*ST30D-***D  | A++   | А  | 8.0   | 131/130   | 121  | 41                           | 56                            | A+++  | Α  | 8.0   | 178/176   | 121  | 41                           | 56                            |
|                      | E*SD-***D     | A++   | -  | 8.0   | 131/130   | _  | 41                           | 56                            | A+++  | -  | 8.0   | 178/176   | -  | 41                           | 56                            |
| PUD-SWM100V/YAA(-BS) | E*ST20D-***D  | A++   | A+                                       | 10.0  | 131/130   | 148  | 41                           | 59                            | A+++  | A+                                       | 10.0  | 178/177   | 148  | 41                           | 59                            |
|                      | E*ST30D-***D  | A++   | А  | 10.0  | 131/130   | 121  | 41                           | 59                            | A+++  | Α  | 10.0  | 178/177   | 121  | 41                           | 59                            |
|                      | E*SD-***D     | A++   | _  | 10.0  | 131/130   | _  | 41                           | 59                            | A+++  | -  | 10.0  | 178/177   | -  | 41                           | 59                            |
| PUD-SWM120V/YAA(-BS) | E*ST20D-***D  | A++   | A+                                       | 12.0  | 129/128   | 148  | 41                           | 60                            | A+++  | A+                                       | 12.0  | 177/176   | 148  | 41                           | 60                            |
|                      | E*ST30D-***D  | A++   | А  | 12.0  | 129/128   | 121  | 41                           | 60                            | A+++  | Α  | 12.0  | 177/176   | 121  | 41                           | 60                            |
|                      | E*SD-***D     | A++   | _  | 12.0  | 129/128   | _  | 41                           | 60                            | A+++  | -  | 12.0  | 177/176   | _  | 41                           | 60                            |
| PUD-SHWM60VAA(-BS)   | E*ST17D-***D  | A++   | A+                                       | 6.0   | 134   | 136  | 41                           | 55                            | A+++  | A+                                       | 6.0   | 178   | 136  | 41                           | 55                            |
|                      | E*ST20D-***D  | A++   | A+                                       | 6.0   | 134   | 148  | 41                           | 55                            | A+++  | A+                                       | 6.0   | 178   | 148  | 41                           | 55                            |
|                      | E*ST30D-***D  | A++   | А  | 6.0   | 134   | 121  | 41                           | 55                            | A+++  | А  | 6.0   | 178   | 121  | 41                           | 55                            |
|                      | E*SD-***D     | A++   | _  | 6.0   | 134   | _  | 41                           | 55                            | A+++  | _  | 6.0   | 178   | _  | 41                           | 55                            |
| PUD-SHWM80V/YAA(-BS) | E*ST17D-***D  | A++   | A+                                       | 8.0   | 135/134   | 136  | 41                           | 56                            | A+++  | A <sup>+</sup>                           | 8.0   | 181/179   | 136  | 41                           | 56                            |
|                      | E*ST20D-***D  | A++   | A+                                       | 8.0   | 135/134   | 148  | 41                           | 56                            | A+++  | A <sup>+</sup>                           | 8.0   | 181/179   | 148  | 41                           | 56                            |
|                      | E*ST30D-***D  | A++   | А  | 8.0   | 135/134   | 121  | 41                           | 56                            | A+++  | А  | 8.0   | 181/179   | 121  | 41                           | 56                            |
|                      | E*SD-***D     | A++   | _  | 8.0   | 135/134   | -  | 41                           | 56                            | A+++  | _  | 8.0   | 181/179   | _  | 41                           | 56                            |
|                      | d profile I " | ı   |  |   |   |  |                              |                               | 1   | l  |   |   |  |                              |                               |

Note: E\*\*T17/20\*-\*\*\*D use "Load profile L". E\*\*T30\*-\*\*\*D use "Load profile XL".

| Pute      |                            |              |   | For n | nedium- | temperatu | re applic | ation |                                |   | For                                      | r low-ten   | nperature  | application   | on                             |                                  |
|--|----------------------------|--------------|---|-------|---------|-----------|-----------|-------|--------------------------------|---|--|---|--|---|--------------------------------|----------------------------------|
| Purper   | Outdoor unit               | Indoor unit  | seasonal space heating<br>inergy efficiency class | nergy |         |           |           |       | ound power level Lwa<br>utdoor | seasonal space heating<br>inergy efficiency class | Vater heating energy<br>ifficiency class | tated heat output under verage climate conditions | easonal space heating<br>nergy efficiency under<br>werage climate conditions | Vater heating energy<br>ifficiency under average<br>limate conditions | sound power level LwA<br>ndoor | sound power level Lwa<br>autdoor |
| PUP SHAWM10WYAAL988  |                            |              | 00 0  | > 0   |         |           |           |       |                                | တစ  | > o                                      |   |  |   |                                |                                  |
| PLOS SHYMM120VYALAISAB   | PUD-SHWM100V/YAA(-BS)      | E*ST20D-***D | A++   | A+    |         |           |           |       |                                | A+++  | A+                                       |   |  |   |                                | _                                |
| PUP-SHYMNIZOVYAALBSN   |                            | E*ST30D-***D | A++   | Α     | 10.0    | 136/135   | 121       | 41    | 59                             | A+++  | Α  | 10.0  | 180/178  | 121   | 41                             | 59                               |
| PURS-SHYMM160/YAAL-BSS    PURS-SHYMM160/YA   |                            | E*SD-***D    | A++   | _     | 10.0    | 136/135   | _         | 41    | 59                             | A+++  | _  | 10.0  | 180/178  | _   | 41                             | 59                               |
| PUD-SHWM140VYAALBS    FISTOC************************************   | PUD-SHWM120V/YAA(-BS)      | E*ST20D-***D | A++   | A+    | 12.0    | 135/134   | 148       | 41    | 60                             | A+++  | A+                                       | 12.0  | 179/177  | 148   | 41                             | 60                               |
| PUPLE-SHYMINIADIVYAAL-ISS    PUPLE-SWYSDVYAAL-ISS      |                            | E*ST30D-***D | A++   | Α     | 12.0    | 135/134   | 121       | 41    | 60                             | A+++  | А  | 12.0  | 179/177  | 121   | 41                             | 60                               |
| Part   |                            | E*SD-***D    | A++   | _     | 12.0    | 135/134   | _         | 41    | 60                             | A+++  | _  | 12.0  | 179/177  | _   | 41                             | 60                               |
| Pumassassassassassassassassassassassassass   | PUD-SHWM140V/YAA(-BS)      | E*ST20D-***D | A++   | A+    | 14.0    | 134/134   | 145       | 41    | 62                             | A+++  | A+                                       | 14.0  | 179/177  | 145   | 41                             | 62                               |
| E*SD****D  |                            | E*ST30D-***D | A++   | Α     | 14.0    |           | 121       | 41    | 62                             | A+++  | A  | 14.0  |  |   | 41                             | 62                               |
| RRSTI7D.***D   |                            | E*SD-***D    | A++   | _     | 14.0    | 134/134   | _         | 41    | 62                             | A+++  | _  | 14.0  |  | _   | 41                             | 62                               |
| EHST200-***0   | PUHZ-SW75V/YAA(-BS)        | EHST17D-***D | A++   | A+    | 7.1     | 129/128   | 136       | 41    | 58                             | A++   | A+                                       | 7.2   | 162/160  | 136   | 41                             | 58                               |
| Philopolith  |                            | ERST17D-***D | A++   | A+    | 7.1     |           | 136       | 41    | 58                             | A++   | A+                                       | 7.2   |  |   |                                | 58                               |
| Firstorn   |                            | EHST20D-***D | A++   | A+    | 7.1     |           |           |       | 58                             | A++   | A+                                       | 7.2   |  |   | 41                             | 58                               |
| EHST30D.***D   |                            | ERST20D-***D | A++   | A+    | 7.1     |           |           |       | 58                             | A++   | A+                                       | 7.2   |  |   |                                |                                  |
| ERST30D.***D   |                            | EHST30D-***D | A++   | Α     | 7.1     |           | 120       | 41    | 58                             | A++   | A  | 7.2   |  |   |                                | 58                               |
| Part   |                            | ERST30D-***D | A++   | Α     | 7.1     |           |           |       |                                | A++   | A  | 7.2   |  |   |                                |                                  |
| PUHZ-SW100V/YAA(-BS)   |                            | EHSD-***D    | A++   | _     | 7.1     |           |           |       | 58                             | A++   | _  | 7.2   |  |   |                                |                                  |
| PUHZ-SW100V/YAA(-BS)   |                            | ERSD-***D    | A++   | _     |         |           |           |       |                                |   | _  | 7.2   |  |   |                                |                                  |
| Part      | PUHZ-SW100V/YAA(-BS)       |              |   |       |         |           |           |       |                                |   | Α+                                       |   |  |   |                                |                                  |
| EHST30C+**D  |                            |              |   |       |         |           | _         |       |                                |   |  |   |  |   |                                |                                  |
| REST30C+**D  |                            |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| EHSC-***D  |                            |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| Figh      |                            |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| Phiz-swi120v/yha(-Bs)  |                            |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| FRST2OC.***D   | PUHZ-SW120V/YHA(-BS)       |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| EHST30C-***D A++ A 12.1 125/125 118 40 72 A++ A 12.9 162/162 118 40 72  ERST30C-***D A++ A 12.1 127/127 118 40 72 A++ A 12.9 164/164 118 40 72  EHSC-***D A++ A 12.1 125/125 - 40 72 A++ A 12.9 164/164 118 40 72  ERSC-***D A++ - 12.1 125/125 - 40 72 A++ - 12.9 164/164 - 40 72  ERSC-***D A++ - 12.1 127/127 - 40 72 A++ - 12.9 164/164 - 40 72  ERSC-***D A++ - 13.5 125 - 45 78 A++ - 12.9 164/164 - 40 72  EHSE-***D A++ - 13.5 126 - 45 78 A++ - 15.3 151 - 45 78  ERSE-***D A++ - 15.5 127 - 45 78 A++ - 15.3 152 - 45 78  ERSE-***D A++ - 15.5 129 - 45 78 A++ - 17.3 148 - 45 78  ERSE-***D A++ - 15.5 129 - 45 78 A++ - 17.3 148 - 45 78  ERSE-***D A++ A+ 9.0 133/132 145 40 59 A++ A+ 9.6 169/167 145 40 59  ERST30C-**D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 59  ERST30C-**D A++ A 9.0 133/132 - 40 59 A++ A 9.6 169/167 120 40 59  ERSC-**D A++ A 9.0 133/132 - 40 59 A++ A 9.6 169/167 120 40 59  ERSC-**D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 59  ERSC-**D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 59  ERSC-**D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 - 40 59  ERSC-**D A++ A 12.7 135/135 145 40 60 A++ A 13.9 171/169 145 40 60  ERST30C-**D A++ A 12.7 135/137 145 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-**D A++ A 12.7 135/137 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-**D A++ A 12.7 135/137 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-**D A++ A 12.7 135/137 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-**D A++ A 12.7 135/137 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-**D A++ A 12.7 135/137 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-**D A++ A 12.7 135/137 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-**D A++ A 12.7 135/137 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-**D A++ A 12.7 135/137 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-**D A++ A 12.7 135/137 120 40 60 A++ A 13.9 171/169 120 40 60  | 1 0112 000 1200/ 111/1 20/ |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| ERST30C-***D   A++   |                            |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| EHSC.***D A++ - 12.1 125/125 - 40 72 A++ - 12.9 162/162 - 40 72  ERSC.***D A++ - 12.1 127/127 - 40 72 A++ - 12.9 162/162 - 40 72  PUHZ-SW160YKA(-BS)  EHSE.***D A++ - 13.5 125 - 45 78 A++ - 15.3 151 - 45 78  ERSE.***D A++ - 15.5 127 - 45 78 A++ - 15.3 152 - 45 78  PUHZ-SW200YKA(-BS)  EHSE.***D A++ - 15.5 127 - 45 78 A++ - 17.3 147 - 45 78  ERSE.***D A++ - 15.5 127 - 45 78 A++ - 17.3 148 - 45 78  ERSE.***D A++ - 15.5 129 - 45 78 A++ - 17.3 148 - 45 78  PUHZ-SHW80V/YAA(-BS)  EHST20C.***D A++ A+ 9.0 133/132 145 40 59 A++ A+ 9.6 169/167 145 40 59  ERST20C.***D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 59  ERST30C.***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 59  ERST30C.***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 59  ERST30C.***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 59  ERSC.***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 59  ERSC.***D A++ A 12.7 135/135 145 40 60 A++ A 13.9 171/169 145 40 60  ERST20C.***D A++ A 12.7 135/135 145 40 60 A++ A 13.9 171/169 120 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  |                            |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| ERSC.***D A++ - 12.1 127/127 - 40 72 A++ - 12.9 164/164 - 40 72  PUHZ-SW160YKA(-BS)  EHSE.***D A++ - 13.5 125 - 45 78 A++ - 15.3 151 - 45 78  EHSE.***D A++ - 13.5 126 - 45 78 A++ - 15.3 151 - 45 78  PUHZ-SW200YKA(-BS)  EHSE.***D A++ - 15.5 127 - 45 78 A++ - 17.3 147 - 45 78  EHSE.***D A++ - 15.5 129 - 45 78 A++ - 17.3 147 - 45 78  PUHZ-SHW80V/YAA(-BS)  EHST20C.***D A++ A+ 9.0 133/132 145 40 59 A++ A+ 9.6 169/167 145 40 59  ERST30C.***D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 59  ERST30C.***D A++ A 9.0 133/132 - 40 59 A++ A 9.6 169/167 120 40 59  EHSC.***D A++ - 9.0 133/132 - 40 59 A++ A 9.6 172/172 120 40 59  ERSC.***D A++ - 9.0 133/132 - 40 59 A++ A 9.6 172/172 120 40 59  ERSC.***D A++ - 9.0 135/134 120 40 59 A++ - 9.6 169/167 - 40 59  ERSC.***D A++ A 12.7 135/135 145 40 60 A++ A 13.9 173/173 145 40 60  ERST20C.***D A++ A 12.7 135/135 145 40 60 A++ A 13.9 173/173 145 40 60  ERST20C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 145 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 145 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 145 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 145 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 145 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 145 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 145 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 145 40 60  ERST30C.***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 145 40 60  |                            |              |   |       |         | -         |           |       |                                |   |  |   | -  |   |                                |                                  |
| PUHZ-SW160YKA(-BS)  EHSE-***D  A++  -  13.5  125  -  45  78  A++  -  15.3  151  -  45  78  PUHZ-SW200YKA(-BS)  ERSE-***D  A++  -  13.5  126  -  45  78  A++  -  15.3  152  -  45  78  PUHZ-SW200YKA(-BS)  EHSE-***D  A++  -  15.5  127  -  45  78  A++  -  17.3  147  -  45  78  PUHZ-SHW80V/YAA(-BS)  EHST20C-***D  A++  A+  A+  B-  15.5  129  -  45  78  A++  -  17.3  147  -  45  78  PUHZ-SHW80V/YAA(-BS)  EHST20C-***D  A++  A+  A+  B-  BERST20C-***D  A++  A+  BERST20C-***D  A++  BERST20C-***D  A++  A+  BERST20C-***D  A++  BERST20C-***D  A++  A+  BERST20C-***D  A++  BERST20C-***D  BERST20C-***D  A++  BERST20C-***D  BERST20C-***D  A+ |                            |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| ERSE-**D A++ - 13.5 126 - 45 78 A++ - 15.3 152 - 45 78  PUHZ-SW200YKA(-BS)  EHSE-**D A++ - 15.5 127 - 45 78 A++ - 17.3 147 - 45 78  PUHZ-SHW80V/YAA(-BS)  EHST20C-**D A++ A+ 9.0 133/132 145 40 59 A++ A+ 9.6 169/167 145 40 59  ERST30C-**D A++ A 9.0 135/134 145 40 59 A++ A 9.6 169/167 120 40 59  ERST30C-**D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 59  ERST30C-**D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 59  ERST30C-**D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 59  ERST30C-**D A++ A 9.0 135/134 120 40 59 A++ A 9.6 169/167 120 40 59  ERSC-**D A++ - 9.0 135/134 120 40 59 A++ - 9.6 169/167 - 40 59  ERSC-**D A++ - 9.0 135/134 - 40 59 A++ - 9.6 169/167 - 40 59  ERSC-**D A++ A 12.7 135/135 145 40 60 A++ A 13.9 171/169 145 40 60  ERST30C-**D A++ A 12.7 137/137 145 40 60 A++ A 13.9 173/173 145 40 60  ERST30C-**D A++ A 12.7 137/137 120 40 60 A++ A 13.9 173/173 120 40 60  ERST30C-**D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 120 40 60  ERST30C-**D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 120 40 60  ERST30C-**D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 120 40 60  ERST30C-**D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 120 40 60  ERST30C-**D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 120 40 60  | PUHZ-SW160YKA(-RS)         |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| PUHZ-SW200YKA(-BS)  EHSE-**D  A++  -  15.5  127  -  45  78  A++  -  17.3  147  -  45  78  PUHZ-SHW80V/YAA(-BS)  EHST20C-***D  A++  A+  A+  B-0  133/132  145  40  59  A++  A+  B-0  133/132  145  40  59  A++  A+  B-0  17.3  148  -  45  78  78  PUHZ-SHW80V/YAA(-BS)  EHST20C-***D  A++  A+  A+  B-0  133/132  145  B-0  133/132  145  B-0  14 |                            |              |   |       |         |           |           |       |                                |   | _  |   |  |   |                                |                                  |
| ERSE-***D  A++  A++  A+  BO  BENT20C-***D  A++  A+  BENT30C-***D  A++  BENT30C-***D  A++  A+  BENT30C-***D  A++  BENT30C-***D  A++  A+  BENT30C-***D  A++  BENT30C-***D  A++  A+  BENT30C-***D  A++  BENT30C-***D  BENT3 | PUHZ-SW200YKA(-BS)         |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| PUHZ-SHW80V/YAA(-BS)  EHST20C-***D  A++  A+  A+  9.0  133/132  145  40  59  A++  A+  9.6  169/167  145  40  59  ERST20C-***D  A++  A+  9.0  135/134  145  40  59  A++  A+  9.6  172/172  145  40  59  EHST30C-***D  A++  A+  A+  9.0  135/134  120  40  59  A++  A+  9.6  172/172  145  40  59  ERST30C-***D  A++  A+  A+  9.0  135/134  120  40  59  A++  A+  9.6  169/167  120  40  59  ERST30C-***D  A++  A+  A+  9.0  135/134  120  40  59  A++  A+  9.6  169/167  120  40  59  ERST30C-***D  A++  A+  A+  9.0  135/134  120  40  59  A++  A+  9.6  169/167  120  40  59  ERST30C-***D  A++  A+  -  9.0  135/134  -  40  59  A++  A+  -  9.6  172/172  120  40  59  PUHZ-SHW112V/YAA(-BS)  EHST20C-***D  A++  A+  A+  12.7  135/135  145  40  60  A++  A+  13.9  171/169  145  40  60  A++  A+  13.9  171/169  120  40  60  ERST30C-***D  A++  A+  A+  12.7  135/135  120  40  60  A++  A+  A+  13.9  171/169  120  40  60  A++  A+  A+  A+  A+  A+  A+  A+  A+  |                            |              |   |       |         |           |           |       |                                |   | _  |   |  | _   |                                |                                  |
| ERST20C-***D A++ A+ 9.0 135/134 145 40 59 A++ A+ 9.6 172/172 145 40 59  EHST30C-***D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 59  ERST30C-***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 172/172 120 40 59  EHSC-***D A++ - 9.0 135/134 - 40 59 A++ - 9.6 169/167 - 40 59  ERSC-***D A++ - 9.0 135/134 - 40 59 A++ - 9.6 172/172 - 40 59  EHSC-***D A++ A+ 12.7 135/135 145 40 60 A++ A+ 13.9 171/169 145 40 60  ERST20C-***D A++ A+ 12.7 135/135 120 40 60 A++ A+ 13.9 173/173 145 40 60  ERST30C-***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 120 40 60  ERST30C-***D A++ A 12.7 135/135 - 40 60 A++ A 13.9 173/173 120 40 60  ERST30C-***D A++ A 12.7 135/135 - 40 60 A++ A 13.9 173/173 120 40 60  | PUHZ-SHW80V/YAA(-BS)       |              |   | Δ+    |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| EHST30C-***D A++ A 9.0 133/132 120 40 59 A++ A 9.6 169/167 120 40 59  ERST30C-***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 172/172 120 40 59  EHSC-***D A++ - 9.0 133/132 - 40 59 A++ - 9.6 169/167 - 40 59  ERSC-***D A++ - 9.0 135/134 - 40 59 A++ - 9.6 172/172 - 40 59  EHST20C-***D A++ A+ 12.7 135/135 145 40 60 A++ A+ 13.9 171/169 145 40 60  ERST20C-***D A++ A+ 12.7 135/135 120 40 60 A++ A+ 13.9 173/173 145 40 60  EHST30C-***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-***D A++ A 12.7 137/137 120 40 60 A++ A 13.9 173/173 120 40 60  ERST30C-***D A++ A 12.7 135/135 - 40 60 A++ A 13.9 173/173 120 40 60  EHSC-***D A++ A 12.7 135/135 - 40 60 A++ A 13.9 173/173 120 40 60  |                            |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| ERST30C-***D A++ A 9.0 135/134 120 40 59 A++ A 9.6 172/172 120 40 59  EHSC-***D A++ - 9.0 133/132 - 40 59 A++ - 9.6 169/167 - 40 59  ERSC-***D A++ - 9.0 135/134 - 40 59 A++ - 9.6 172/172 - 40 59  PUHZ-SHW112V/YAA(-BS)  EHST20C-***D A++ A+ 12.7 135/135 145 40 60 A++ A+ 13.9 171/169 145 40 60  ERST30C-***D A++ A 12.7 135/135 120 40 60 A++ A+ 13.9 171/169 120 40 60  ERST30C-***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 173/173 120 40 60  ERST30C-***D A++ A 12.7 135/135 - 40 60 A++ A 13.9 173/173 120 40 60  ERST30C-***D A++ A 12.7 135/135 - 40 60 A++ A 13.9 173/173 120 40 60   |                            |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| EHSC-***D A++ - 9.0 133/132 - 40 59 A++ - 9.6 169/167 - 40 59  ERSC-***D A++ - 9.0 135/134 - 40 59 A++ - 9.6 172/172 - 40 59  PUHZ-SHW112V/YAA(-BS)  EHST20C-***D A++ A+ 12.7 135/135 145 40 60 A++ A+ 13.9 171/169 145 40 60  ERST20C-***D A++ A+ 12.7 135/137 145 40 60 A++ A+ 13.9 173/173 145 40 60  EHST30C-***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-***D A++ A 12.7 137/137 120 40 60 A++ A 13.9 173/173 120 40 60  ERST30C-***D A++ A 12.7 135/135 - 40 60 A++ A 13.9 173/173 120 40 60  EHSC-***D A++ - 12.7 135/135 - 40 60 A++ A 13.9 173/173 120 40 60   |                            |              |   |       |         |           |           |       |                                |   |  |   | -  |   |                                |                                  |
| ERSC-***D A++ - 9.0 135/134 - 40 59 A++ - 9.6 172/172 - 40 59  PUHZ-SHW112V/YAA(-BS)  EHST20C-***D A++ A+ 12.7 135/135 145 40 60 A++ A+ 13.9 171/169 145 40 60  ERST20C-***D A++ A+ 12.7 135/137 145 40 60 A++ A+ 13.9 173/173 145 40 60  EHST30C-***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-***D A++ A 12.7 137/137 120 40 60 A++ A 13.9 173/173 120 40 60  EHSC-***D A++ - 12.7 135/135 - 40 60 A++ - 13.9 171/169 - 40 60  |                            |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| PUHZ-SHW112V/YAA(-BS)  EHST20C-***D A++ A+ 12.7 135/135 145 40 60 A++ A+ 13.9 171/169 145 40 60  ERST20C-***D A++ A+ 12.7 137/137 145 40 60 A++ A+ 13.9 173/173 145 40 60  EHST30C-***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60  ERST30C-***D A++ A 12.7 137/137 120 40 60 A++ A 13.9 173/173 120 40 60  EHSC-***D A++ - 12.7 135/135 - 40 60 A++ - 13.9 171/169 - 40 60   |                            |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| ERST20C-***D A++ A+ 12.7 137/137 145 40 60 A++ A+ 13.9 173/173 145 40 60 EHST30C-***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60 ERST30C-***D A++ A 12.7 137/137 120 40 60 A++ A 13.9 171/169 120 40 60 EHSC-***D A++ - 12.7 135/135 - 40 60 A++ - 13.9 171/169 - 40 60   | PUHZ-SHW112V/YAA(-BS)      |              |   |       |         | -         |           |       |                                |   |  |   | -  |   |                                |                                  |
| EHST30C-***D A++ A 12.7 135/135 120 40 60 A++ A 13.9 171/169 120 40 60 ERST30C-***D A++ A 12.7 137/137 120 40 60 A++ A 13.9 173/173 120 40 60 EHSC-***D A++ - 12.7 135/135 - 40 60 A++ - 13.9 171/169 - 40 60  |                            |              |   |       |         |           |           |       |                                |   |  |   | -  |   |                                |                                  |
| ERST30C-***D A++ A 12.7 137/137 120 40 60 A++ A 13.9 173/173 120 40 60 EHSC-***D A++ - 12.7 135/135 - 40 60 A++ - 13.9 171/169 - 40 60   |                            |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
| EHSC-***D A++ - 12.7 135/135 - 40 60 A++ - 13.9 171/169 - 40 60  |                            |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
|  |                            |              |   |       |         |           |           |       |                                |   |  |   |  |   |                                |                                  |
|  |                            | ERSC-***D    | A++   | _     | 12.7    | 137/137   | _         | 40    | 60                             | A++   | _  | 13.9  | 171/109  | _   | 40                             | 60                               |

# All A<sup>++</sup> or Above!!

|                            |                 |  | For n                                    | nedium-   | temperatu   | re applic  | ation                           | T                                |   | For                                      | low-ten   | nperature a   | applicatio   | on                              |                               |
|----------------------------|-----------------|--|--|---|---|--|---------------------------------|----------------------------------|---|--|---|---|--|---------------------------------|-------------------------------|
| Outdoor unit               | Indoor unit     | Seasonal space heating energy efficiency class | Water heating energy<br>efficiency class | Rated heat output under<br>average climate conditions | Seasonal space heating<br>energy efficiency under<br>average climate conditions | Water heating energy efficiency under average climate conditions | Sound power level Lwa<br>indoor | Sound power level Lwa<br>outdoor | Seasonal space heating<br>energy efficiency class | Water heating energy<br>efficiency class | Rated heat output under<br>average climate conditions | Seasonal space heating<br>energy efficiency under<br>average climate conditions | Water heating energy efficiency under average climate conditions | Sound power level Lwa<br>indoor | Sound power level LwA outdoor |
|                            |                 |  |  | kW  | %   | %  | dB                              | dB                               |   |  | kW  | %   | %  | dB                              | dB                            |
| PUHZ-SHW140YHA             | EHST20C-***D    | A++  | A+                                       | 15.8  | 127   | 138  | 40                              | 70                               | A++   | A+                                       | 17.0  | 163   | 138  | 40                              | 70                            |
|                            | ERST20C-***D    | A++  | A+                                       | 15.8  | 128   | 138  | 40                              | 70                               | A++   | A+                                       | 17.0  | 165   | 138  | 40                              | 70                            |
|                            | EHST30C-***D    | A++  | Α  | 15.8  | 127   | 118  | 40                              | 70                               | A++   | Α  | 17.0  | 163   | 118  | 40                              | 70                            |
|                            | ERST30C-***D    | A++  | Α  | 15.8  | 128   | 118  | 40                              | 70                               | A++   | Α  | 17.0  | 165   | 118  | 40                              | 70                            |
|                            | EHSC-***D       | A++  | -  | 15.8  | 127   | -  | 40                              | 70                               | A++   | -  | 17.0  | 163   | -  | 40                              | 70                            |
|                            | ERSC-***D       | A++  | -  | 15.8  | 128   | -  | 40                              | 70                               | A++   | -  | 17.0  | 165   | -  | 40                              | 70                            |
| PUHZ-SHW230YKA2            | EHSE-***D       | A++  | -  | 23.0  | 127   | -  | 45                              | 75                               | A++   | -  | 25.0  | 164   | -  | 45                              | 75                            |
|                            | ERSE-***D       | A++  | -  | 23.0  | 128   | -  | 45                              | 75                               | A++   | -  | 25.0  | 165   | -  | 45                              | 75                            |
| PUZ-WM50VHA(-BS)           | EHPT17X-***D(W) | A++  | A+                                       | 5.0   | 129   | 120  | 40                              | 61                               | A+++  | A+                                       | 5.0   | 183   | 120  | 40                              | 61                            |
|                            | ERPT17X-***D(W) | A++  | A+                                       | 5.0   | 133   | 120  | 40                              | 61                               | A+++  | A+                                       | 5.0   | 190   | 120  | 40                              | 61                            |
|                            | EHPT20X-***D(W) | A++  | A+                                       | 5.0   | 129   | 135  | 40                              | 61                               | A+++  | A <sup>+</sup>                           | 5.0   | 183   | 135  | 40                              | 61                            |
|                            | ERPT20X-***D(W) | A++  | A+                                       | 5.0   | 133   | 135  | 40                              | 61                               | A+++  | A+                                       | 5.0   | 190   | 135  | 40                              | 61                            |
|                            | EHPX-***D       | A++  | -  | 5.0   | 129   | -  | 40                              | 61                               | A+++  | -  | 5.0   | 183   | -  | 40                              | 61                            |
|                            | ERPX-***D       | A++  | -  | 5.0   | 133   | -  | 40                              | 61                               | A+++  | -  | 5.0   | 190   | -  | 40                              | 61                            |
| PUZ-WM60VAA(-BS)           | EHPT17X-***D(W) | A++  | A+                                       | 6.0   | 142   | 120  | 40                              | 58                               | A+++  | A+                                       | 6.0   | 190   | 120  | 40                              | 58                            |
|                            | ERPT17X-***D(W) | A++  | A+                                       | 6.0   | 145   | 120  | 40                              | 58                               | A+++  | A+                                       | 6.0   | 197   | 120  | 40                              | 58                            |
|                            | EHPT20X-***D(W) | A++  | A+                                       | 6.0   | 142   | 145  | 40                              | 58                               | A+++  | A <sup>+</sup>                           | 6.0   | 190   | 145  | 40                              | 58                            |
|                            | ERPT20X-***D(W) | A++  | A <sup>+</sup>                           | 6.0   | 145   | 145  | 40                              | 58                               | A+++  | A+                                       | 6.0   | 197   | 145  | 40                              | 58                            |
|                            | EHPX-***D       | A++  | -  | 6.0   | 142   | -  | 40                              | 58                               | A+++  | -  | 6.0   | 190   | -  | 40                              | 58                            |
|                            | ERPX-***D       | A++  | -  | 6.0   | 145   | -  | 40                              | 58                               | A+++  | -  | 6.0   | 197   | -  | 40                              | 58                            |
| PUZ-WM85V/YAA(-BS)         | EHPT17X-***D(W) | A++  | A+                                       | 8.5   | 139/138   | 120  | 40                              | 58                               | A+++  | A+                                       | 8.5   | 193/190   | 120  | 40                              | 58                            |
|                            | ERPT17X-***D(W) | A++  | A+                                       | 8.5   | 141/141   | 120  | 40                              | 58                               | A+++  | A+                                       | 8.5   | 197/197   | 120  | 40                              | 58                            |
|                            | EHPT20X-***D(W) | A++  | A+                                       | 8.5   | 139/138   | 145  | 40                              | 58                               | A+++  | A <sup>+</sup>                           | 8.5   | 193/190   | 145  | 40                              | 58                            |
|                            | ERPT20X-***D(W) | A++  | A+                                       | 8.5   | 141/141   | 145  | 40                              | 58                               | A+++  | A+                                       | 8.5   | 197/197   | 145  | 40                              | 58                            |
|                            | EHPT30X-***D(W) | A++  | Α  | 8.5   | 139/138   | 120  | 40                              | 58                               | A+++  | Α  | 8.5   | 193/190   | 120  | 40                              | 58                            |
|                            | ERPT30X-***D(W) | A++  | Α  | 8.5   | 141/141   | 120  | 40                              | 58                               | A+++  | Α  | 8.5   | 197/197   | 120  | 40                              | 58                            |
|                            | EHPX-***D       | A++  | -  | 8.5   | 139/138   | -  | 40                              | 58                               | A+++  | -  | 8.5   | 193/190   | -  | 40                              | 58                            |
|                            | ERPX-***D       | A++  | -  | 8.5   | 141/141   | -  | 40                              | 58                               | A+++  | -  | 8.5   | 197/197   | -  | 40                              | 58                            |
| PUZ-WM112V/YAA(-BS)        | EHPT20X-***D(W) | A++  | A+                                       | 10.0  | 134/133   | 148  | 40                              | 60                               | A+++  | A <sup>+</sup>                           | 10.0  | 191/189   | 148  | 40                              | 60                            |
|                            | ERPT20X-***D(W) | A++  | A+                                       | 10.0  | 136/136   | 148  | 40                              | 60                               | A+++  | A+                                       | 10.0  | 195/195   | 148  | 40                              | 60                            |
|                            | EHPT30X-***D(W) | A++  | Α  | 10.0  | 134/133   | 120  | 40                              | 60                               | A+++  | Α  | 10.0  | 191/189   | 120  | 40                              | 60                            |
|                            | ERPT30X-***D(W) | A++  | Α  | 10.0  | 136/136   | 120  | 40                              | 60                               | A+++  | Α  | 10.0  | 195/195   | 120  | 40                              | 60                            |
|                            | EHPX-***D       | A++  | -  | 10.0  | 134/133   | -  | 40                              | 60                               | A+++  | -  | 10.0  | 191/189   | -  | 40                              | 60                            |
|                            | ERPX-***D       | A++  | -  | 10.0  | 136/136   | -  | 40                              | 60                               | A+++  | -  | 10.0  | 195/195   | -  | 40                              | 60                            |
| PUZ-HWM140V/YHA(-BS)       | EHPT20X-***D(W) | A++  | A+                                       | 14.0  | 132/131   | 130  | 40                              | 67                               | A+++  | A+                                       | 14.0  | 176/175   | 130  | 40                              | 67                            |
|                            | ERPT20X-***D(W) | A++  | A+                                       | 14.0  | 133/133   | 130  | 40                              | 67                               | A+++  | A <sup>+</sup>                           | 14.0  | 178/177   | 130  | 40                              | 67                            |
|                            | EHPT30X-***D(W) | A++  | Α  | 14.0  | 132/131   | 118  | 40                              | 67                               | A+++  | Α  | 14.0  | 176/175   | 118  | 40                              | 67                            |
|                            | ERPT30X-***D(W) | A++  | Α  | 14.0  | 133/133   | 118  | 40                              | 67                               | A+++  | Α  | 14.0  | 178/177   | 118  | 40                              | 67                            |
|                            | EHPX-***D       | A++  | -  | 14.0  | 132/131   | -  | 40                              | 67                               | A+++  | -  | 14.0  | 176/175   | -  | 40                              | 67                            |
|                            | ERPX-***D       | A++  | -  | 14.0  | 133/133   | -  | 40                              | 67                               | A+++  | -  | 14.0  | 178/177   | -  | 40                              | 67                            |
| PUHZ-FRP71VHA2             | EHST20C-***D    | A+   | A+                                       | 7.5   | 121   | 138  | 40                              | 68                               | A++   | A+                                       | 7.5   | 163   | 138  | 40                              | 68                            |
|                            | EHSC-***D       | A+   | -  | 7.5   | 121   | -  | 40                              | 68                               | A++   | -  | 7.5   | 163   | -  | 40                              | 68                            |
| PUMY-P112VKM5/YKM(E)4(-BS) | EHST20C-***D    | A+   | Α  | 11.2  | 121/121   | 106  | 40                              | 69                               | A++   | Α  | 11.2  | 168/168   | 106  | 40                              | 69                            |
|                            | EHSC-***D       | A+   | -  | 11.2  | 121/121   | -  | 40                              | 69                               | A++   | -  | 11.2  | 168/168   | -  | 40                              | 69                            |
| PUMY-P125VKM5/YKM(E)4(-BS) | EHST20C-***D    | A <sup>+</sup>                                 | Α  | 11.2  | 121/121   | 106  | 40                              | 69                               | A++   | Α  | 11.2  | 168/168   | 106  | 40                              | 69                            |
|                            | EHSC-***D       | A <sup>+</sup>                                 | -  | 11.2  | 121/121   | -  | 40                              | 69                               | A++   | -  | 11.2  | 168/168   | -  | 40                              | 69                            |
| PUMY-P140VKM5/YKM(E)4(-BS) | EHST20C-***D    | A+   | Α  | 11.2  | 121/121   | 106  | 40                              | 69                               | A++   | Α  | 11.2  | 168/168   | 106  | 40                              | 69                            |
|                            | EHSC-***D       | A+   | -  | 11.2  | 121/121   | -  | 40                              | 69                               | A++   | -  | 11.2  | 168/168   | -  | 40                              | 69                            |

Note: E\*\*T17/20\*-\*\*\*D use "Load profile L". E\*\*T30\*-\*\*\*D use "Load profile XL".

# **NEW ECODESIGN DIRECTIVE**

# WHAT IS THE ErP DIRECTIVE?

The Ecodesign Directive for Energy-related Products (ErP Directive) establishes a framework to set mandatory standards for ErPs sold in the European Union (EU). The ErP directive introduces new energy-efficiency ratings across various product categories and affects how products such as computers, vacuum cleaners, boilers and even windows are classified in terms of environmental performance.

Regulations that apply to air conditioning systems of rated capacity up to 12kW came into effect as of January 1, 2013. Based the use of future-orientated technologies, Mitsubishi Electric is one step ahead of these changes, with our air conditioning systems already achieving compliance with these new regulations.

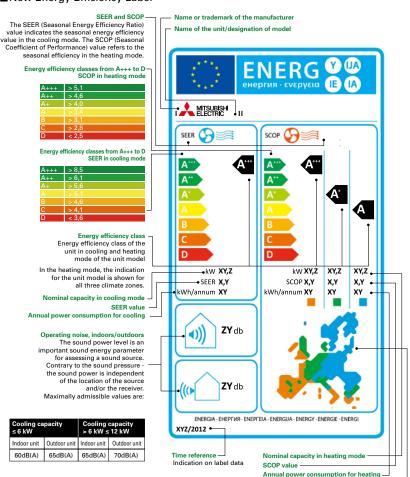
# **NEW ENERGY LABEL AND MEASUREMENTS**

Under regulation 2011/626/EU, supplementing directive 2010/30/EU, air conditioning systems are newly classified into energy-efficiency classes on the basis of a new energy labelling system, which includes three new classes: A+, A++ and A+++.

Revisions to the measurement points and calculations of the seasonal energy efficiency ratio (SEER) and seasonal coefficient of performance (SCOP) has resulted in changes to how air conditioning systems are classified into energy-efficiency classes.

Specifically, for cooling mode, air conditioning systems must achieve at least class B. For heating mode, air conditioning systems must achieve at least a SCOP value of 3.8.

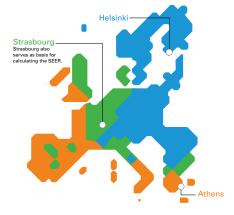
### ■New Energy Efficiency Label



For heating mode, the EU is divided into three climate zones for calculation and classification purposes. This aims at calculating the energy efficiency taking into consideration the actual regional ambient temperatures.

### ■Climate Zones for Heating Mode

Reference climate zones for calculating the SCOP
Since the climate conditions have a great influence on the operating behaviour in the heat pump mode, three climate zones have been stipulated for the EU: warm, moderate, cold. The measurement points are homogenous at 12°C, 7°C, 2°C, 2°C and -7°C.



|         | Temperat | ure conditions |         |
|---------|----------|----------------|---------|
| Partial | Outdoors |                | Indoors |
| oad     | DB       | WB             | DB      |
| -       | -        | -              | 20°C    |
| 00%     | 2°C      | 1°C            | 20°C    |
| 64%     | 7°C      | 6°C            | 20°C    |
| 29%     | 12°C     | 11°C           | 20°C    |

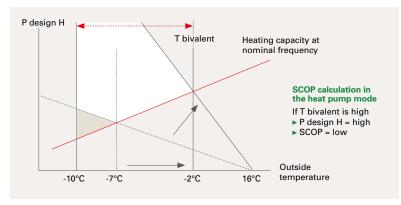
| Moderate ( | Strasbourg) |                |         |
|------------|-------------|----------------|---------|
|            | Temperat    | ure conditions |         |
| Partial    | Outdoors    |                | Indoors |
| load       | DB          | WB             | DB      |
| 88%        | -7°C        | -8°C           | 20°C    |
| 54%        | 2°C         | 1°C            | 20°C    |
| 35%        | 7°C         | 6°C            | 20°C    |
| 15%        | 12°C        | 11°C           | 20°C    |

| old (Helsir | ıki)     |                 |         |
|-------------|----------|-----------------|---------|
|             | Temperat | ture conditions |         |
| Partial     | Outdoors |                 | Indoors |
| load        | DB       | WB              | DB      |
| 61%         | -7°C     | −8°C            | 20°C    |
| 37%         | 2°C      | 1°C             | 20°C    |
| 24%         | 7°C      | 6°C             | 20°C    |
| 11%         | 12°C     | 11°C            | 20°C    |

# SEER/SCOP

Air conditioning systems were previously assessed using the energy-efficiency rating (EER), which evaluated efficiency in cooling mode, and the coefficient of performance (COP), which defined the efficiency, or the ratio of consumed and output power, in heating mode. Under this system, assessments were not truly reflective of performance as they were based on a single measurement point, which led to manufacturers optimising products accordingly in order to achieve higher efficiency ratings. SEER and SCOP address this problem by including seasonal variation in the ratings via use of realistic measurement points. For cooling mode, measurements at outside temperatures of 20, 25, 30 and 35°C are incorporated and weighted in accordance with climate data for Strasbourg, which is used as a single reference point for the whole EU. For instance, for partial-load operation, which represents more than 90% of operation, there is a correspondingly high weighting for the efficiency classification. For heating mode, a comprehensive temperature profile for the whole EU was not possible, so the EU has been divided into three climate zones, north, central and south, and load profiles created. The same measurement points, at outside temperatures of 12, 7, 2 and -7°C, are used for all three zones.

### **■SCOP Calculation**



# Technical Terms with Respect to the SCOP

**P design H:** Corresponds to a heating load of 100%. The value depends on the selected bivalence point.

**T design:** Outside temperature which determines the P design H point. The latter is determined from the area conditions.

**T bivalent:** Corresponds to the lowest temperature at which full heating performance can be achieved with the heat pump (without additional heating). This point can be freely selected within the prescribed temperature ranges (T design - T bivalent).

# SOUND PRESSURE LEVEL

Consumers will also receive more information on the noise levels emitted by split-system air conditioners to help them make their purchasing decision. Specifically, the sound power level of indoor and outdoor units is to be indicated in decibels as an objective parameter. Knowing the sound power makes it possible to calculate sound emissions while considering distance and radiation characteristics, which is beneficial because it allows the noise levels of different air conditioning systems to be compared regardless of the usage location and how the sound pressure is measured. This is an improvement on sound pressure values which are usually measured at an approximate distance of 1m where all modern split-system air conditioning systems tend to be very quiet at an average of 21 decibels.

# ■Sound Pressure vs Sound Power Level



### Sound pressure level dB(A)

The sound pressure level is a sound field parameter which indicates the perceived operating noise of an indoor unit within a certain distance.

### Sound power level dB(A)

The sound power is an acoustic parameter which describes the source strength of a sound generator and is thus independent of the distance to the receiver location.

# Inverter INVERTER TECHNOLOGIES

Mitsubishi Electric inverters ensure superior performance including the optimum control of operation frequency. As a result, optimum power is applied in all heating/cooling ranges and maximum comfort is achieved while consuming minimal energy. Fast, comfortable operation and amazingly low running cost — That's the Mitsubishi Electric promise.

# INVERTERS — HOW THEY WORK

Inverters electronically control the electrical voltage, current and frequency of electrical devices such as the compressor motor in an air conditioner. They receive information from sensors monitoring operating conditions, and adjust the revolution speed of the compressor, which directly regulates air conditioner output. Optimum control of operation frequency results in eliminating the consumption of excessive electricity and providing the most comfortable room environment.

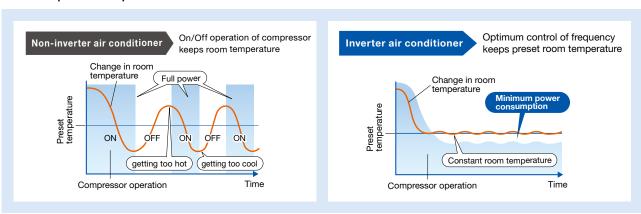
# **ECONOMIC OPERATION**

Impressively low operating cost is a key advantage of inverter air conditioners. We've combined advanced inverter technologies with cutting-edge electronics and mechanical technologies to achieve a synergistic effect that enables improvements in heating/cooling performance efficiency. Better performance and lower energy consumption are the result.

# TRUE COMFORT

Below is a simple comparison of air conditioner operation control with and without an inverter.

### ■ Inverter operation comparison



The compressors of air conditioners without an inverter start and stop repeatedly in order to maintain the preset room temperature. This repetitive on/off operation uses excessive electricity and compromises room comfort. The compressors of air conditioners equipped with an inverter run continuously; the inverter quickly optimizing the operating frequency according to changes in room temperature. This ensures energy-efficient operation and a more comfortable room.

# Point 1 Quick & Powerful

Increasing the compressor motor speed by controlling the operation frequency ensures powerful output at start-up, brings the room temperature to the comfort zone faster than units not equipped with an inverter. Hot rooms are cooled, and cold rooms are heated faster and more efficiently.

# Point 2 Room Temperature Maintained

The compressor motor operating frequency and the change of room temperature are monitored to calculate the most efficient waveform to maintain the room temperature in the comfort zone. This eliminates the large temperature swings common with non-inverter systems, and guarantees a pleasant, comfortable environment.

# **KEY TECHNOLOGIES**

# **Our Rotary Compressor**

Our rotary compressors use our original "Poki-Poki Motor" and "Heat Caulking Fixing Method" to realise downsizing and higher efficiency, and are designed to match various usage scenes in residential to commercial applications. Additionally, development of an innovative production method known as "Divisible Middle Plate" realises further size/weight reductions and increased capacity while also answering energy-efficiency needs.

# Our Scroll Compressor

Our scroll compressors are equipped with an advanced frame compliance mechanism that allows self-adjustment of the position of the orbiting scroll according to pressure load and the accuracy of the fixed scroll position. This minimises gas leakage in the scroll compression chamber, maintains cooling capacity and reduces power loss.

# MORE ADVANTAGES WITH MITSUBISHI ELECTRIC



# Joint Lap DC Motor

Mitsubishi Electric has developed a unique motor, called the "Poki-Poki Motor" in Japan, which is manufactured using a joint lapping technique. This innovative motor operates based on a highdensity, high-magnetic force, leading to extremely high efficiency and reliability.







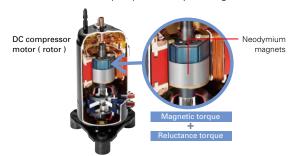
# Magnetic Flux Vector Sine Wave Drive

This drive device is actually a microprocessor that converts the compressor motor's electrical current waveform from a conventional waveform to a sine wave (180°conductance) to achieve higher efficiency by raising the motor winding utilisation ratio and reducing energy loss.



# Reluctance DC Rotary Compressor

Powerful neodymium magnets are used in the rotor of the reluctance DC motor. More efficient operation is realised by strong magnetic and reluctance torques produced by the magnets.

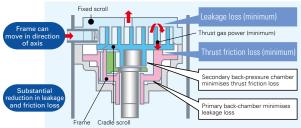




# Highly Efficient DC Scroll Compressor

Higher efficiency has been achieved by adding a frame compliance mechanism to the DC scroll compressor. The mechanism allows movement in the axial direction of the frame supporting the cradle scroll, thereby greatly reducing leakage and friction loss, and ensuring extremely high efficiency at all speeds.







# Heat Caulking Fixing Method

To fix internal parts in place, a "Heat Caulking Fixing Method" is used, replacing the former arc spot welding method. Distortion of internal parts is reduced, realising higher efficiency.





# DC Fan Motor

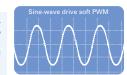
A highly efficient DC motor drives the fan of the outdoor unit. Efficiency is much higher than an equivalent AC motor.

# WW Vector-Wave Eco Inverter

This inverter monitors the varying compressor motor frequency and creates the most efficient waveform for the motor speed. As the result, operating efficiency in all speed ranges is improved, less power is used and annual electricity cost is reduced.

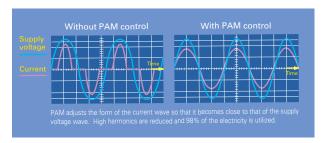
### Smooth wave pattern

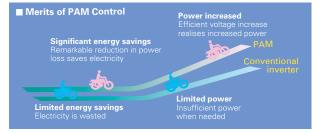
Inverter size has been reduced using insertmolding, where the circuit pattern is molded into the synthetic resin. To ensure quiet operation, soft PWM control is used to prevent the metallic whine associated with conventional inverters.



# PAM PAM (Pulse Amplitude Modulation)

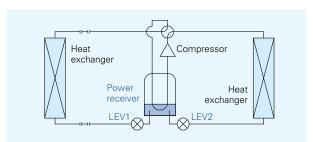
PAM is a technology that controls the current waveform so that it resembles the supply voltage wave, thereby reducing loss and realising more efficient use of electricity. Using PAM control, 98% of the input power supply is used effectively.





# Power Receiver and Twin LEV Control

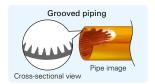
Mitsubishi Electric has developed a power receiver and twin linear expansion valves (LEVs) circuit that optimise compressor performance. This technology ensures optimum control in response to operating waveform and outdoor temperature. Operating efficiency has been enhanced by tailoring the system to the characteristics of R410A refrigerant.





# **Grooved Piping**

High-performance grooved piping is used in heat exchangers to increase the heat exchange area.

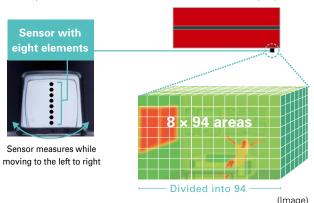


# **COMFORT**

# 3D i-see Sensor

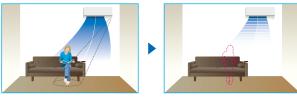
# 3D Fsee Sensor for M SERIES

The LN Series and FH Series are equipped with the 3D i-see Sensor, an infrared-ray sensor that measures the temperature at distant positions. While moving to the left and right, eight vertically arranged sensor elements analyze the room temperature in three dimensions. This detailed analysis makes it possible to judge where people are in the room, thus allowing creation of features such as "Indirect airflow," to avoid airflow hitting people directly, and "direct airflow" to deliver airflow to where people are.



# No occupancy energy-saving mode

The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.



The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60 minutes.

### **Indirect Airflow**

The indirect airflow setting can be used when the flow of air feels too strong or direct. For example, it can be used during cooling vaert airflow and prevent body temperature from becoming excessively cooled.



Even Airflow \*LN Series only Normal swing mode

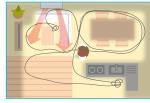
The airflow is distributed equally throughout the room, even to spaces where there is no human movement

### **Direct Airflow**

This setting can be used to directly target airflow at people such as for immediate comfort when coming indoors on a hot (cold) day.



Even airflow mode



The 3D i-see sensor memorizes human movement and furniture positions, and efficiently distributes airflow.

### No occupany Auto-OFF mode \*LN Series only

The sensors detect whether or not there are people in the room. When there is no one in the room, the unit turns off automatically.





# 3D Fsee Sensor for S & P SERIES

### Detects number of people

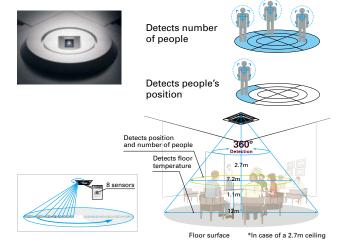
The 3D i-see Sensor detects the number of people in the room and adjusts the power accordingly. This makes automatic power-saving operation possible in places where the number of people changes frequently. Additionally, when the area is continuously unoccupied, the system switches to a more enhanced power-saving mode. Depending on the setting, it can also stop the operation.

# Detects people's position

Once a person is detected, the angle of the vane is automatically adjusted. Each vane can be independently set to "Direct Airflow" or "Indirect Airflow" according to taste.

# Highly accurate people detection

A total of eight sensors rotate a full 360° in 3-minute intervals. In addition to detecting human body temperature, our original algorithm also detects people's positions and the number of people.



# Detects number of people

# Room occupancy energy-saving mode

The 3D i-see Sensor detects the number of people in the room. It then calculates the occupancy rate based on the maximum number of people in the room up to that point in time in order to save airconditioning power. When the occupancy rate is approximately 30%, air-conditioning power equivalent to 1°C during both cooling and heating operation is saved. The temperature is controlled according to the number of people.

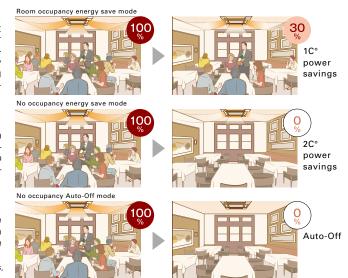
# No occupancy energy-saving mode

When 3D i-see Sensor detects that no one is the room, the system is switched to a pre-set power-saving mode. If the room remains unoccupied for more than 60min, air-conditioning power equivalent to 2°C during both cooling and heating operation is saved. This contributes to preventing waste in terms of heating and cooling.

# No occupancy Auto-OFF mode\*

When the room remains unoccupied for a pre-set period of time, the air conditioner turns off automatically, thereby providing even greater power savings. The time until operation is stopped can be set in intervals of 10min, ranging from 60 to 180 min.

\* When MA Remote Controller is used to control multiple refrigerant systems, "No occupancy Auto-OFF mode" cannot be used.



\*PAR-40MAA is required for each setting

# Detects people's position

# Direct/Indirect settings\*

The horizontal airflow spreads across the ceiling. When set to "Indirect Airflow" uncomfortable drafty-feeling is eliminated completely!



\*PAR-40MAA or PAR-SL100A-E is required for each setting.

# Seasonal airflow\*

# When cooling

Saves energy while keeping a comfortable effective temperature by automatically switching between ventilation and cooling. When a pre-set temperature is reached, the air conditioning unit switches to swing fan operation to maintain the effective temperature. This clever function contributes to keeping a comfortable coolness.

# When heating

The air conditioning unit automatically switches between circulator and heating. Wasted heat that accumulates near the ceiling is reused via circulation. When a pre-set temperature is reached the air conditioner switches from heating to circulator and blows air in the horizontal direction. It pushes down the warm air that has gathered near the ceiling to people's height, thereby providing smart heating.



\*PAR-40MAA is required for each setting

# Area Temperature Monitor

The "3D i-see Sensor" monitors the whole room in sections and directs the airflow to areas of the room where the temperature does not match the temperature setting. (When cooling the room, if the middle of the room is detected to be hotter, more airflow is directed towards it.) This eliminates unnecessary heating /cooling and contributes to lower electricity costs.

# Cooling mode





## COMFORT

### **ENERGY-SAVING**



### Econo Cool Energy-Saving Feature

"Econo Cool" is an intelligent temperature control feature that adjusts the amount of air directed towards the body based on the air-outlet temperature. The setting temperature can be raised by as much as 2°C without any loss in comfort, thereby realising a 20% gain in energy efficiency. (Function only available during manual cooling operation.)

|                       | Conventional | Econo Cool |
|-----------------------|--------------|------------|
| Ambient temperature   | 35°C         | 35°C       |
| Set temperature       | 25°C         | 27°C       |
| Perceived temperature | 30°C         | 29.3°C     |

#### Econo Cool Mode

A comfortable room environment is maintained even when setting the temperature 2°C higher than the conventional cooling mode.

Econo Cool on



Conventional cooling mode



### Demand Function (Onsite Adjustment)

The demand function can be activated when the unit is equipped with a commercially available timer or an On/Off switch is added to the CNDM connector (option) on the control board of the outdoor unit. Energy consumption can be reduced up to 100% of the normal consumption according to the signal input from outside.

[Example: Power Inverter Series]

Limit energy consumption by changing the settings of SW7-1, SW2 and SW3 on the control board of the outdoor unit. The following settings are possible.

| SW7-1 | SW2 SW3 |     | Energy consumption |
|-------|---------|-----|--------------------|
|       | OFF     |     | 100%               |
| ON    | ON      | OFF | 75%                |
| ON    | ON      | ON  | 50%                |
|       | OFF     | ON  | 0% (Stop)          |

\*PUHZ outdoor only



### **AIR QUALITY**



### Plasma Quad Plus

Plasma Quad Plus is a plasma-based filter system similar to Plasma Quad, but in addition to bacteria, viruses, allergens, and dust, it can also filter out microparticles such as PM2.5.



#### Plasma Quad

Plasma Quad attacks bacteria and viruses from inside the unit using a strong curtain-like electrical field and discharge of electric current across the whole inlet-air opening of the unit.



#### **Dual Barrier Coating**

A two-barrier coating which prevents hydrophobic and hydrophillic dirt from sticking to the inner surface and inner parts of the indoor unit



### Fresh-air Intake

Indoor air quality is enhanced by the direct intake of fresh exterior air.



### High-efficiency Filter

This high-performance filter has a much finer mesh compared to standard filters, and is capable of capturing minute particulates floating in the air that were not previously caught.



#### Air Purifying Filter

The filter has a large capture area and also generates antibacterial, antifungal, and deodorant effects.



### Oil Mist Filter

The oil mist filter prevents oil mist from penetrating into the inner part of the air conditioner.



### Long-life Filter

A special process for the entrapment surface improves the filtering effect, making the maintenance cycle longer than that of units equipped with conventional filters.



#### Filter Check Signal

Air conditioner operating time is monitored, and the user is notified when filter maintenance is necessary.



### Silver-ionized Air Purifier Filter

Silver-ionized Air Purifier Filter made of non-woven fabric can capture tiny particles. Silver ions and enzymes contained in the filter effectively act on bacteria and allergens and neutralises them.

### **AIR DISTRIBUTION**

### Double Vane

Double vane separates the airflow in the different directions to deliver airflow not only across a wide area of the room, but also simultaneously to two people in different locations.

### Horizontal Vane

The air outlet vane swings up and down so that the airflow is spread evenly throughout the room.

### Vertical Vane

The air outlet fin swings from side to side so that the airflow reaches every part of the room.

### 📖 High Ceiling Mode

In the case of rooms with high ceilings, the outlet-air volume can be increased to ensure that air is circulated all the way to the floor.

### Low Ceiling Mode

If the room has a low ceiling, the airflow volume can be reduced for less draft

### **₩**Auto Fan Speed Mode

The airflow speed mode adjusts the fan speed of the indoor unit automatically according to the present room conditions.

### Circulator Mode

After reaching the target temperature, heating mode will automatically switch to circulator mode, which makes the unit go into "fan-only" state and mixes warm air to eliminate uneven temperature in the room.

# **CONVENIENCE**

### **CONVENIENCE**



#### "i save" Mode

"i save" is a simplified setting function that recalls the preferred (preset) temperature by pressing a single button on the remote controller. Press the same button twice in repetition to immediately return to the previous temperature setting.

Using this function contributes to comfortable waste-free operation, realising the most suitable air conditioning settings and saving on power consumption when, for example, leaving the room or going to bed.







\* Temperature can be preset to 10°C when heating in the "i-save" mode

#### Ç<del>i</del>⋛Ö ACO

### Auto Changeover

The air conditioner automatically switches between heating and cooling modes to maintain the desired temperature.



#### Low-temperature Cooling

Intelligent fan speed control in the outdoor unit ensures optimum performance even when the outside temperature is low.



### Ampere Limit Adjustment

Dip switch settings can be used to adjust the maximum electrical current for operation. This function is highly recommended for managing energy costs.

\*Maximum capacity is lowered with the use of this function.



### 🗖 Operation Lock (Indoor unit)

To accommodate specific-use applications, cooling or heating operation can be specified using the wireless remote controller. A convenient option when a system needs to be configured for exclusive cooling or heating service.



### Operation Lock (Outdoor unit)

To accommodate specific-use applications, cooling or heating operation can be specified when setting the control board of the outdoor unit. A convenient option when a system needs to be configured for exclusive cooling or heating service.



#### **Auto Restart**

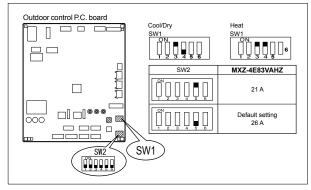
Especially useful at the time of power outages, the unit turns back on automatically when power is restored.

### 10°C

### 10°C Heating

During heating operation, the temperature can be set in 1°C increments down to 10°C.

#### ■ Dip Switch Setting (Board for MXZ-5E102)



### Night Mode

When Night Mode is activated using the wireless remote controller, it will switch to the settings described below.

- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will drop to 3dB lower than the rated specification operating noise.
- \*The cooling/heating capacity may drop.

### Low-noise Operation (Outdoor Unit)

System operation can be adjusted to prioritise less noise from the outdoor unit over air conditioning performance.



### On/Off Operation Timer

Use the remote controller to set the times of turning the air conditioner On/Off.

### **Built-in Weekly Timer Function**

Easily set desired temperatures and operation ON/OFF times to match lifestyle patterns. Reduce wasted energy consumption by using the timer to prevent forgetting to turn off the unit and eliminate temperature setting adjustments.

#### ■ Example Operation Pattern (Winter/Heating mode)

|                         | Mon.    | Tues.             | Wed.   | Thurs.  | Fri.                    | Sat.    | Sun.    |
|-------------------------|---------|-------------------|--|---|-------------------------|---------|---------|
| 5.00                    | ON 20°C | ON 20°C           | ON 20°C  | ON 20°C   | ON 20°C                 | ON 20°C | ON 20°C |
| 6:00                    |         |                   | Automatically change                               | es to high-power opera                            | tion at wake-up time    |         |         |
| 8:00<br>(0:00           | OFF     | OFF               | OFF  | OFF   | OFF                     | ON 18°C | ON 18°C |
| 12:00<br>14:00          |         | Automatio         | Midday is warmer, so the temperature is set lower  |   |                         |         |         |
| 15:00                   |         |                   |  |   |                         |         |         |
| (8:00                   | ON 22°C | ON 22°C           | ON 22°C  | ON 22°C   | ON 22°C                 | ON 22°C | ON 22°C |
| 20:00<br>20:00          |         | Automatically tur | Automatically raises ten<br>match time when outsid | nperature setting to<br>de-air temperature is low |                         |         |         |
| (during sleeping hours) | ON 18°C | ON 18°C           | ON 18°C  | ON 18°C   | ON 18°C                 | ON 18°C | ON 18°C |
|                         |         | Automa            | atically lowers tempera                            | ture at bedtime for en                            | ergy-saving operation a | t night |         |

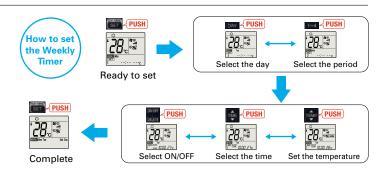
**Settings** 

Pattern Settings: Input up to four settings for each day

Settings: •Start/Stop operation •Temperature setting \*The operation mode cannot be set.

### ■ Easy set-up using dedicated buttons





- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired patterns into the remote controller memory. Pushing the "CANCEL" button will end the set-up process without sending the operation patterns to the indoor unit).

  It takes a few seconds to transmit the Weekly Timer operation patterns to the indoor unit.
- Please continue to point the remote controller at the indoor unit until all data has been sent.

### **Back Light Remote Controller**

Not only the indoor units, but the wireless remote controllers come in four colours as well. Each remote controller matches the indoor unit. Even the textures are the same.



The setting can be easily checked in the dark.

## INSTALLATION & MAINTENANCE

### INSTALLATION



### Cleaning-free Pipe Reuse

It is possible to reuse the same piping. It allows cleaning-free renewal of air conditioning systems that use R22 or R410 refrigerant.

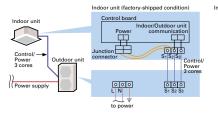
### Wiring Reuse of Existing Wiring

### Wiring recycling problem solved! Compatible with other wiring connection methods\*

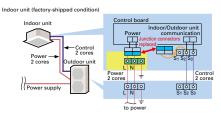
The wiring method has been improved, making it possible to use methods different from that utilized for control and power supply. Units are compatible with the dual harness control line/power line method and the separate power supply method. Using a power supply terminal kit, wire can be efficiently reused at the time of system renewal regardless of the method the existing system uses.

\*Optional. Usage may be limited due to wiring type diameter.

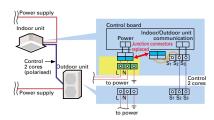
#### Single Harness Control/Power Line Method (Current method)



#### **Dual Harness Control Line/Power Line Method**



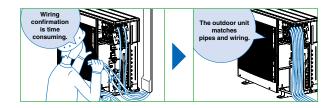
#### Separate Power Supply Method



### Wiring/Piping Correction Function\*

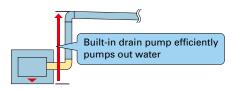
The push of a single button is all that is required to confirm that piping and wiring are properly connected. Corrections are made automatically if a wiring error is detected, eliminating the need for complicated wiring confirmation work when expanding the number of rooms served

\* This function cannot be used when the outdoor temperature is below 0°C. The correction process requires 10-20 minutes, and only works when the unit is set to the Cooling mode.



### **Drain Pump**

A built-in drain pump enables drain piping to be raised.



### Flare Connection

Flare connection to cooling pipe work is possible.

### Pump Down Switch

Enables smooth and easy recovery of refrigerant. Simply press the "Pump Down" switch before moving or changing the unit.

#### Outdoor unit control circuit board



# Pump Down Switch

stop refrigerant recovery operation automatically. (Valve in refrigerant circuit is opened/closed.)

### **MAINTENANCE**



Self-Diagnostic Function (Check Code Display)

Check codes are displayed on the remote controller or the operation indicator to inform the user of malfunctions detected.

Failure Recall Function

Operation failures are recorded, allowing confirmation when needed.

# SYSTEM CONTROL

### SYSTEM CONTROL



#### PAR-40MAA/PAC-YT52CRA/PAC-CT01MAA

Units are compatible for use with the PAR-40MAA, PAC-YT52CRA or PAC-CT01MAA remote controller, which has a variety of management functions.



### System Group Control

The same remote controller is capable of controlling the operational status of up to 16 refrigerant systems.



### M-NET Connection

Units can be connected to MELANS system controllers (M-NET controllers) such as the AG-150A.



#### COMPO (Simultaneous Multi-unit Operation)

Multiple indoor units can be connected to a single outdoor unit. (Depending on the unit combination, connection of up to four units is possible; however, all indoor units must operate at the same settings.)



### **MXZ Connection**

Connection to the MXZ multi-split outdoor unit is possible.



### MELCloud (Wi-Fi interface)

#### MELCloud for fast, easy remote control and monitoring

MELCloud is a Cloud-based solution for controlling air-conditioner either locally or remotely by computer, tablet or smartphone via the Internet. Setting up and remotely operating via MELCloud is simple and straight forward. All you need is wireless computer connectivity in your home or the building where the air-conditioner is installed and an Internet connection on your mobile or fixed terminal. To set up the system, the router and the Wi-Fi interface must be paired, and this is done simply and quickly using the WPS button found on all mainstream routers.

You can control and check air-conditioner via MELCloud from virtually anywhere an Internet connection is available.

That means, thanks to MELCloud, you can use much more easily and conveniently.

#### Key control and monitoring features

- Turn system on/off
- See status of operating & adjust set point
- 6 Live weather feed from your location Schedule timer - Set 7 day weekly schedule Error status
- Energy Consumption Monitoring











MELCloud uses the MAC-567IF-E interface

#### Connecting the Wi-Fi interface

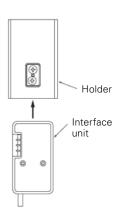
The new Wi-Fi interface MAC-567IF-E can be mounted on the wall or on the outer side of the indoor unit. For LN Series, there is a built-in Wi-Fi interface inside the indoor unit.

### When mounting on the wall

The interface can be mounted simply by affixing the holder to the wall on either side of the unit and inserting the interface unit into the holder.

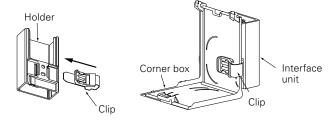


<sup>\*</sup>When mounting on the right side of the unit



### When mounting on the outer side of the unit

The interface can be mounted on the right side, left side, bottom right, or bottom left of the indoor unit. After inserting the clip into the holder, slip the clip over the edge of the corner box.









Bottom right



Left side



Bottom left

# **CONTROL TECHNOLOGIES**



## User-friendly Deluxe Remote Controller with Excellent Operability and Visibility

PAR-40MAA

#### Easy To Read & Easy To Use

Inverted display screen

The screen background color can be set to black to suit the atmosphere of the installation location.

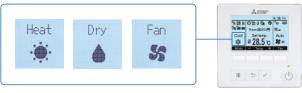


### Full Dot Liquid-crystal Display Adopted

Easier to read thanks to use of a full dot liquid-crystal display with backlight, and easier to use owing to adopting a menu format that has reduced the number of operating buttons.

### Display Example [Operation Mode]

Full Dot LCD



### Multi-language Display



## Control panel operation in fourteen different languages

Choose the desired language, among the following languages.

| English   | Spanish | Italian    | Turkish |
|-----------|---------|------------|---------|
| French    | Greek   | Portuguese | Swedish |
| German    | Russian | Polish     | Czech   |
| Hangarian | Dutch   |            |         |

#### Temperature Control

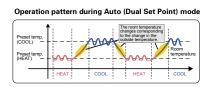


#### Two preset temperatures

When the operation mode is set to the Auto (Dual Set Point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will

automatically operate in either the COOL or HEAT mode and keep the room temperature within the preset range.





<sup>\*</sup>Please refer to the function list on pages 193-200 for the combination of the available units.

#### **Energy-efficient Control**

#### **Operation Control Functions**



#### Precise control of power consumption

The amount of power consumed in each time period is managed so that the demand value is not exceeded. The demand control function can be set to start and finish in 5-minute units.

Additionally, the level can be adjusted to 0, 50, 60, 70, 80 or 90% of maximum capacity, and up to 4 patterns can be set per day. Airconditioning operation is automatically controlled to ensure that electricity in excess of the contracted volume is not consumed.

#### ■Setting pattern example

| Start time | Finish time   |       | Capacity savings |
|------------|---------------|-------|------------------|
| 8:15       | $\rightarrow$ | 12:00 | 80%              |
| 12:00      | $\rightarrow$ | 13:00 | 50%              |
| 13:00      | $\rightarrow$ | 17:00 | 90%              |
| 17:00      | $\rightarrow$ | 21:00 | 50%              |



#### Prevents wasteful operation by automatically returning to the preset temperature after specified operating time

After adjusting the temperature for initial heating in winter or cooling on a hot summer day, it is easy to forget to return the temperature setting to its original value. The Auto-return function automatically resets the temperature back to the original setting after a specified period of time, thereby preventing overheating/overcooling. The Auto-return activation time can be set in 10-minute units, in a range between 30 and 120 minutes.

\*Auto-return cannot be used when Temperature Range Restrictions is in use.

### Auto-off Timer

## Turns heating/cooling off automatically after preset time elapses

When using Auto-off Timer, even if one forgets to turn off the unit, operation stops automatically after the preset time elapses, thereby preventing wasteful operation. Auto-off Timer can be set in 10-minute units, in a range between 30 minutes and 4 hours. Eliminates all anxiety about forgetting to turn off the unit.

Recommended for Meeting room Changing room

### Night Setback

## Keep desired room temperatures automatically

This function monitors the room temperature and automatically activates the heating mode when the temperature drops below the preset minimal temperature setting. It has the same function for cooling, automatically activating the cooling mode when the temperature rises above the preset maximum temperature setting.

### Operation Lock

## Fixed temperature setting promotes energy savings

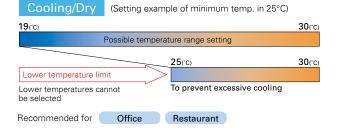
In addition to operation start/stop, the operation mode, temperature setting and airflow direction can be locked. Unwanted adjustment of temperature settings is prevented and an appropriate temperature is constantly maintained, leading to energy savings. This feature is also useful in preventing erroneous operation or tampering.

Recommended for Office School Public hall
Hospital Computer server facility

### Temperature Range Restriction

## Temperature Range Restriction prevents overheating/overcooling

Using a temperature that is 1°C lower/higher for heating/cooling results in a 10% reduction in power consumption.\* Temperature Range Restriction limits the maximum and minimum temperature settings, contributing to the prevention of overheating/overcooling. \*In-house calculations



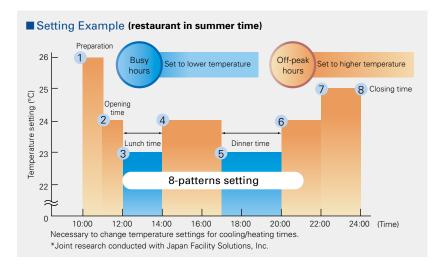
### Weekly Timer

### Weekly Timer with Two Types of Settings

Weekly schedule timer can save two different settings which can be easily switched according to different seasons.

In addition, it offers eight different pattern setting per day. (on, off and temperature setting)

\*Weekly Timer cannot be used when On/Off Timer is in use



# **CONTROL TECHNOLOGIES**

### Installation/Maintenance Support Functions



Outdoor unit data accessed immediately, enabling fast maintenance (only PUZ/PUHZ type)

Using the Stable Operation Control (fixed frequency) of the Smooth Maintenance function, the operating status of the inverter can be checked easily via the screen on the remote controller.

#### ■ Smooth Maintenance Function Operating Procedure



#### Display information (11 items)

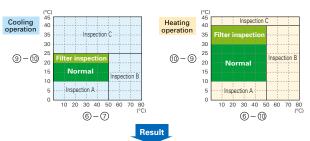
|   | Compressor           | 6                   | OU TH4 temp. (°C)              |  |
|---|----------------------|---------------------|--------------------------------|--|
| 1 | COMP. current (A)    | OU TH6 temp. (°C)   |                                |  |
| 2 | COMP. run time (Hr)  | 8 OU TH7 temp. (°C) |                                |  |
| 3 | COMP. ON/OFF (times) | Indoor Unit         |                                |  |
| 4 | COMP. frequency (Hz) | 9 IU air temp. (°C) |                                |  |
|   | Outdoor Unit         |                     | IU HEX temp. (°C)              |  |
| 5 |                      |                     | IU filter operating time* (Hr) |  |

<sup>\*</sup>IU filter operating time is the time elapsed since filter was reset.

#### Inspection Guidelines

The computed temperature difference is plotted as in the graph below and operating status is determined.

|           |                                     | ltem                                 |
|-----------|-------------------------------------|--------------------------------------|
| Cooling   | (⑥ OU TH4 temp.) – (⑦ OU TH6 temp.) |                                      |
|           | T 1866                              | (⑨ IU air temp.) – (⑩ IU HEX temp.)  |
| Haratin a | Temp. difference                    | (6 OU TH4 temp.) – (10 IU HEX temp.) |
| Heating   |                                     | (1 IU HEX temp.) – (9 IU air temp.)  |



| Normal            | Normal operating status.                               |  |  |
|-------------------|--|--|--|
| Filter inspection | Filter may be blocked.*1                               |  |  |
| Inspection A      | Capacity is reduced. Detailed inspection is necessary. |  |  |
| Inspection B      | Refrigerant level is low.                              |  |  |
| Inspection C      | Filter or indoor unit heat exchanger is blocked.       |  |  |

- \$1: Due to indoor and outdoor temperatures, "Filter inspection" may be displayed even if the filter is
- \*1. Due to indoor and outdoor temperatures, "Filter inspection" may be displayed even if the filter is not blocked.
  \* The above graphs are based on trial data. Results may vary depending on installation/temperature conditions.
  \* Stable operation may not be possible under the following temperature conditions:

  a) In cooling mode when the outdoor induction temperature is over 40°C or the indoor induction temperature is below 23°C.
  b) In heating mode when the outdoor induction temperature is over 20°C or when the indoor induction temperature is over 25°C.
  o) If the above temperature conditions do not apply and stable operation is not achieved after 30 minutes has passed, please inspect the units.
  The operating status may change due to frost on the outdoor heat exchanger.

Manual Vane Angle Setting (4-way ceiling

#### Direction of vertical airflow for each vane can be set

Setting the vertical airflow direction for each individual vane can be performed simply via illustrated display. Seasonal settings such as switching between cooling and heating are easily changed as well.



#### Easily raise/lower panels using the remote controller

Auto-descending panel operation is available as an option. Panels can be raise/lower using a button on the wired remote controller. Filter cleaning can be performed easily.



#### Three outdoor noise level setting

The outdoor noise level can be reduced on demand according to the surrounding environment. Select from three setting mode: standard mode (rated), silent mode and ultra-silent mode.



#### Password for initial settings

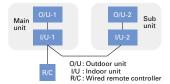
A password is required (default setting is "0000") for initial settings such as time and display language.

### Rotation\*, Back-up\* and 2nd Stage Cut-in Functions\* (PAR-40MAA)

## (1) Rotation and Back-up Functions Function Outline

- Main and sub units take turns operating according to a rotation interval setting.
- If one unit malfunctions, the other unit automatically begins operation (Back-up function)
- \*PUZ/PUHZ only

#### System Image



#### (2) 2nd Stage Cut-in Function

#### **Function Outline**

- Number of units operating is based on room temperature and predetermined settings.
- When room temperature rises above the desired setting, the standby unit starts (2-unit operation).
- When the room temperature falls 4°C below the predetermined setting, the standby unit stops (1unit operation).

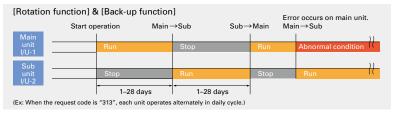
#### System Constraint

• This function is only available for rotation operation and when the back-up function is in cooling mode.

\*PUZ/PUHZ only

### Operation Pattern





#### Operation Pattern



Flat

back

**★** MEENRE

○●変

70mm (2-3/4 in)

120mm (4-23/32 in

# Simple MA Remote Controller PAC-YT52CRA

### **Backlit LCD**

Features a liquid-crystal display (LCD) with backlight for operation in dark conditions.

#### Flat Back

The slim and flat-back shape makes installation easier without requiring a hole in the wall. Thickness is 14.5mm or less.

### Vane Angle Setting

The vane button has been added to allow users to change the airflow direction (ceiling-cassette and wall-mounted units).

## Pressing the 📆 button will switch the vane direction.



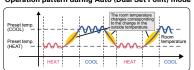
### **Dual Set Point**

### Two preset temperatures

14.5mm (9/16 in)

When the operation mode is set to the Auto (Dual Set Point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the COOL or HEAT mode and keep the room temperature within the preset range.

#### Operation pattern during Auto (Dual Set Point) mode



- \*Please refer to the function list on pages 193-200 for the combination of the available units.
- \* The settable vane directions vary depending on the indoor unit model to be connected.
- \* If the unit has no vane function, the vane direction cannot be set. In this case, the vane icon flashes when the 📆 button is pressed.

# **CONTROL TECHNOLOGIES**

MA Touch Remote Controller
PAR-CT01MAA-SB
PAR-CT01MAA-PB





PAC-CT01MAA-SB

PAR-CT01MAA-PB

User-friendly Visible big size icons on the full color touch panel display.

#### Full color touch panel display



# 3.5 inch/HVGA Full Color LCD

#### **Operation panels**







Flexibility Customized display, color on parameter and background, editable parameter, logo image on the initial display.

### Multiple color pattern

180 color patterns can be selected for control parameters or background on the display.

### Control parameter customize

Users can customize the panel todisplay the selected parameters only.

#### • Control parameter customize

Simple operation panel is liked by users, especially in hotels. It is available to display only ON/OFF, set temp., fan speed.



### Logo image customization

Logo image can be displayed on the initial screen.



### Available in a wide variety of colors to suit the decor of any room.





**Expandability** Smartphone / tablet App is available for setting, customize, and control.

#### Bluetooth® low energy technology

Remote controller can communicate with smartphone or tablet device via Bluetooth Low Energy (BLE). Operation & Setting App are available on the App store.



- \*The Bluetooth® word mark is trademark of Bluetooth SIG, Inc., USA.
- \*Contact the sales company for information on "Bluetooth" function.





#### Convenient BLE transmission functions for installation contractors

Initial setup for the remote controller can be easily performed using BLE transmission via a smartphone.

#### Previous model

Previously, initial setup (selecting function parameters) was onlyavailable via the remote controller installed each room.



The initial setup (selecting function parameters) can now be performed in advance on a smartphone, with the settings transmitted to the remote controller by enabling BLE transmission upon entry to the room.





### Convenient BLE transmission functions for guests

The remote controller has been further upgraded with hotels in mind, to allow smartphone connectivity and multilingual support.

#### Smartphone connectivity

For example, hotel guests can operate the air conditioner via their smartphones, without getting out of bed.

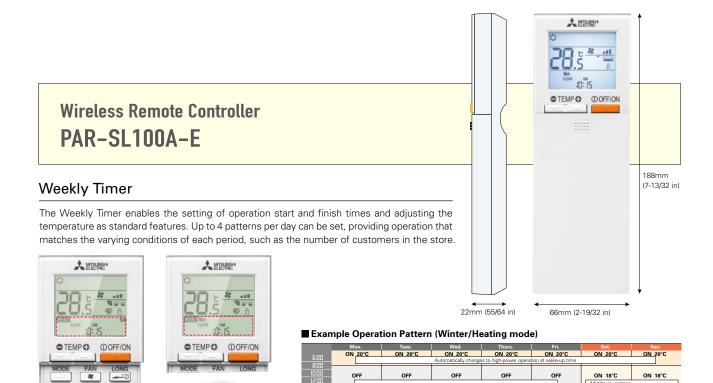


#### Multilingual support

The smartphone app can be displayed in the language that the guest's smartphone is set to.



# **CONTROL TECHNOLOGIES**



- \*Weekly Timer cannot be used when On/Off Timer is in use.
- \*Only for SLZ-KF25/35/50/60VA2, PLA-ZP/RP35/50/60/71/100/125/140EA

#### Backlight

Backlight function incorporated, making screen easy to read in the dark. Even in dimly lit rooms, the screen can be seen clearly for trouble-free remote controller operation.

ON/OFF
WEEKLY @

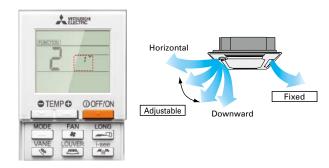




### Individual Vane Settings

The airflow directions of the four vanes can each be adjusted independently. Easily set the optimum airflow according to the room setting.

ON 20°C



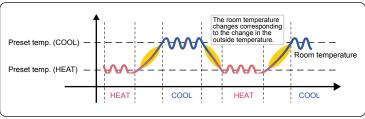
#### **Dual Set Point**

When the operation mode is set to the Auto (Dual Set Point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, the indoor unit will automatically operate in either the COOL or HEAT mode and keep the room temperature within the preset range.





#### Operation pattern during Auto (Dual Set Point) mode



\* Only available for compatible models.

### **Battery Replacement Sign**



Previous wireless remote controllers were not easy to read, understand or use sometimes because the battery was low. Beginning with the PAR-SL100A-E, a battery charge indicator that shows the charge status is included in the LCD so it can be seen when the battery is low and needs to be changed.

### 3D i-see Sensor (Direct/Indirect Airflow)

Pressing the i-see button enables direct or indirect setting of all vanes.





|         | Vane setting Direct Indirect |                       |  |  |  |
|---------|------------------------------|-----------------------|--|--|--|
|         |                              |                       |  |  |  |
| Cooling | horizontal → swing           | keep horizontal       |  |  |  |
| Heating | keep downward                | downward → horizontal |  |  |  |





\*Only available for models equipped with 3D i-see Sensor.

### **Basic Functions**

| Functions                | Button                 | Liquid crystal   |
|--------------------------|------------------------|--|
| OFF / ON                 | ① OFF/ON               |  |
| Preset temperature       | <b>●</b> TEMP <b>●</b> | <b>88</b> .5   |
| Mode                     | MODE                   | Cool Dry Heat Fan Auto Dual set point  *Dual Set Point function not operational first use. |
| Fan speed                | FAN                    | 4-Speed Auto   |
| Vane angle               | VANE 🔪                 | 5-step Swing Auto  |
| 3D i-see Sensor          | i-see                  | Direct Indirect  |
| Send sign                |                        | *  |
| Battery replacement sign |                        |  |
| Function setting         |                        | [FUNCTION]   |
| Test run                 |                        | TEST   |
| Self check               |                        | (CHECK)  |
| Not available            |                        | N/A  |

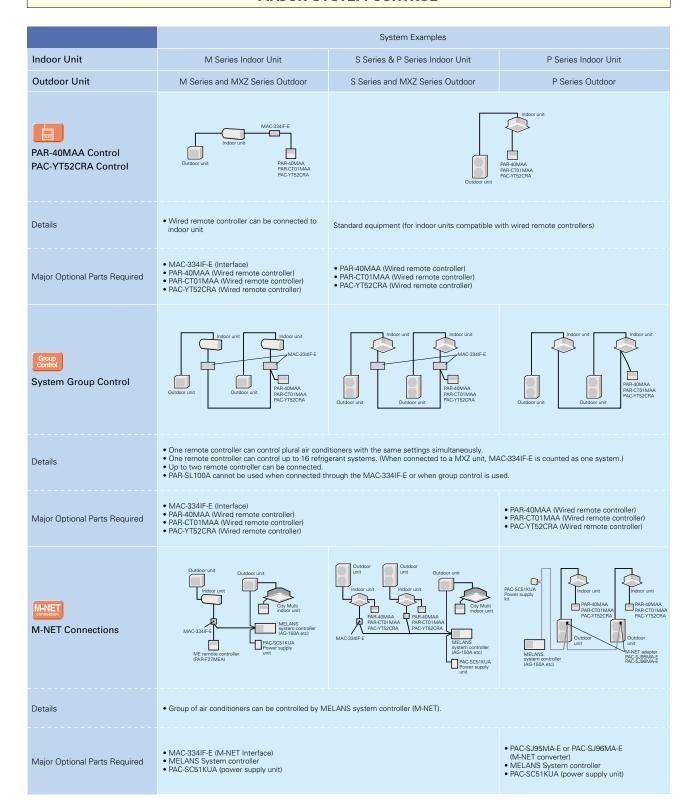
<sup>\*</sup>This remote controller is only compatible with the following models: SLZ-M15/25/35/50/60FA, PLFY-P15/20/25/32/40/50VFM-E1, PLA-ZM/RP35/50/60/71/100/125/140EA, PLFY-P20/25/32/40/50/63/80/100/125VEM-E

<sup>\*</sup>Functions available vary according to the model.

# SYSTEM CONTROL

Versatile system controls can be realised using optional parts, relay circuits, control panels, etc.

### MAJOR SYSTEM CONTROL

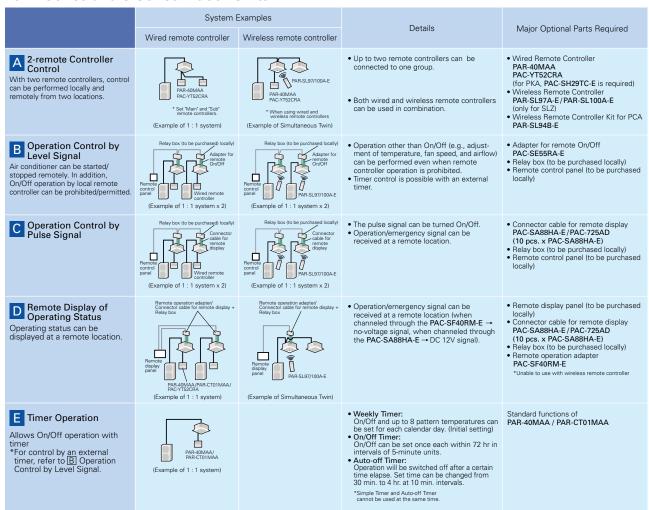


### **OTHERS**

### For M Series Indoor Units (New A-control Models Only)

|  |  | •  |   |   |
|--|--|--|---|---|
|  | System Examples  | Connection Details   | Control Details   | Major Optional Parts Required   |
| Remote On/Off Operation  • Air conditioner can be started/ stopped remotely.  (① and ② can be used in combination)                             | MAC334IF-E Switch Indoor unit Switch Remote control section to be purchased locally!                   | Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface. | On/Off operation is possible from a remote location.                                    | MAC-334IF-E (Interface)     Parts for circuit such as relay box, lead wire, etc. (to be purchased locally)  |
| 2 Remote Display of Operation Status  • The On/Off status of air conditioners can be confirmed remotely.  (1 and 2 can be used in combination) | AAC-334IF-E Power supply Resustance LED Cutdoor unit Remote monitor section (to be purchased locality) | Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface. | The operation status (On/Off) or error signals can be monitored from a remote location. | MAC-334IF-E (Interface)     Parts for circuit to be purchased locally (DC power source needed)     External power source (12V DC) is required when using MAC-334IF-E. |

### For P Series and S Series Indoor Units



# **FUNCTION LIST (1)**

| Category          | Icon  |                                 |                          |   |                  |               | M SERIES                      |  |                     |                               |               |
|-------------------|---|---------------------------------|--------------------------|---|------------------|---------------|-------------------------------|--|---------------------|-------------------------------|---------------|
|                   | nation  |                                 | Indoor unit              | MSZ-LN18/25/35/<br>50/60VG2<br>(W)(V)(R)(B) | MSZ-FT25/35/50VG | MSZ-AP15/20VG | MSZ-AP25/35/42/<br>50/60/71VG | MSZ-EF18/22/25/35/<br>42/50VG(W)(B)(S) | MSZ-BT20/25/35/50VG | MSZ-HR25/35/<br>42/50/60/71VF |               |
|                   | Combination   | ,                               | Outdoor unit             | MUZ-LN                                      | MUZ-FT           | MU            | Z-AP                          | MUZ-EF                                 | MUZ-BT              | MUZ-HR                        |               |
| echnology         | DC Inverter   |                                 |                          | •   | •                | •             | •                             | •                                      | •                   | •                             |               |
|                   | Joint Lap DC Motor  Reluctance DC Rotary Compressor |                                 | •                        | •   | •                | •             | •                             | •                                      | •                   |                               |               |
|                   |   |                                 |                          |   |                  |               |                               |  |                     |                               |               |
|                   | Heating Caulking (C                                 | Cor                             | mpressor)                | •   | •                | •             | •                             | •                                      | •                   | •                             |               |
|                   | DC Fan Motor  |                                 |                          | •   | •                | •             | •                             | •                                      | •                   |                               | $\overline{}$ |
|                   | PAM (Pulse Amplitu                                  | ude                             | e Modulation)            | •   | •                | •             | •                             | •                                      | •                   | •                             |               |
|                   | Power Receiver and                                  | Tw                              | rin LEV Control          |   |                  |               |                               |  |                     |                               | T             |
|                   | Grooved Piping                                      |                                 |                          | •   | •                | •             | •                             | •                                      | •                   | •                             |               |
| i-see Sensor      | Felt Temperature Co                                 | ontr                            | rol (3D i-see Sensor)    | •   |                  |               |                               |  |                     |                               | T             |
|                   | AREA Temperature                                    | e M                             | Ionitor                  | •   |                  |               |                               |  |                     |                               |               |
| Energy            | Econo Cool Energy                                   |                                 |                          | •   | •                | •             | •                             | •                                      | •                   | •                             | ┰             |
| Saving            | Standby Power Co                                    |                                 |                          | •   | •                | •             | •                             | •                                      | •                   |                               |               |
| Air Quality       | Plasma Quad Plus                                    |                                 |                          | •   |                  |               |                               |  |                     |                               |               |
|                   | Plasma Quad   |                                 |                          | _   |                  |               |                               |  |                     |                               |               |
|                   | Dual Barrier Coatin                                 | na                              |                          | •   |                  |               |                               |  |                     |                               |               |
|                   | Silver-ionized Air Pu                               | _                               | fier Filter              | Opt   | •                |               | Opt                           | •                                      | Opt                 | Opt                           |               |
|                   | Air Purifying Filter                                |                                 |                          | Эрі   | •                |               | Орг                           | •                                      | Орг                 | Орг                           |               |
| Air               | Double Vane   |                                 |                          | •   |                  |               |                               |  |                     |                               | Н             |
| Distribution      |   |                                 |                          | •   | •                | •             | •                             | •                                      | •                   |                               | ┢             |
|                   | Horizontal Vane                                     |                                 |                          |   |                  |               |                               | •                                      |                     | •                             | ┢             |
|                   |   | Vertical Vane High Ceiling Mode |                          | •   | •                | •             | •                             |  |                     |                               | $\vdash$      |
|                   | Auto Fan Speed Mode  Circulator Mode                |                                 |                          |   |                  |               |                               |  |                     | $\vdash$                      |               |
|                   |   |                                 | •                        | •   | •                | •             | •                             | •                                      | •                   | ⊢                             |               |
| Convenience       | On/off Operation Timer                              |                                 | •                        | •   |                  |               |                               |  |                     | ⊢                             |               |
| Convenience       | On/off Operation Timer "i save" Mode                |                                 | •                        | •   | •                | •             | •                             | •                                      | •                   | -                             |               |
|                   |   |                                 |                          | •   | •                | •             | •                             | •                                      | •                   | •                             | <u> </u>      |
|                   | Auto Changeover                                     |                                 |                          | •   | •                | •             | •                             | •                                      | •                   | <b>•</b> *1                   | ₽             |
|                   | Auto Restart  |                                 |                          | •   | •                | •             | •                             | •                                      | •                   | •                             | _             |
|                   | Low-temperature C                                   | Coc                             | oling                    | •   | •                | •             | •                             | •                                      | •                   | •                             | ╙             |
|                   | 10°C Heating  |                                 |                          | •   | •                | •             | •                             |  | •                   | •                             | <u>∟</u>      |
|                   | Low-noise Operation                                 | on                              | (Outdoor Unit)           |   |                  |               |                               |  |                     |                               |               |
|                   | Night Mode  | _                               |                          | •   | •                | •             | •                             |  | •                   |                               | _             |
|                   | Ampere Limit Adjus                                  | stm                             | nent                     |   |                  |               |                               |  |                     |                               | $\perp$       |
|                   | Operation Lock (Inc                                 | do                              | or)                      | •   | •                | •             | •                             |  | •                   | •                             | L             |
|                   | Operation Lock (Ou                                  |                                 |                          |   |                  |               |                               |  |                     |                               |               |
|                   | Built-in Weekly Tim                                 | ner                             | Function                 | •   | •                | •             | •                             | •                                      |                     |                               | $\perp$       |
| System<br>Control | PAR-40MAA Contro                                    | rol '                           | *3                       | Opt   | Opt              | Opt           | Opt                           | Opt                                    | Opt                 | Opt                           |               |
|                   | PAR-CT01MAA Co                                      | ontr                            | rol *3                   | Opt   | Opt              | Opt           | Opt                           | Opt                                    | Opt                 | Opt                           |               |
|                   | PAC-YT52CRA Co                                      | ntr                             | rol *3                   | Opt   | Opt              | Opt           | Opt                           | Opt                                    | Opt                 | Opt                           |               |
|                   | Centralised On/Off                                  | f Co                            | ontrol *3                | Opt   | Opt              | Opt           | Opt                           | Opt                                    | Opt                 | Opt                           | L             |
|                   | System Group Con                                    | ntro                            | ol *3                    | Opt   | Opt              | Opt           | Opt                           | Opt                                    | Opt                 | Opt                           |               |
|                   | M-NET Connection                                    | n *3                            | 3                        | Opt   | Opt              | Opt           | Opt                           | Opt                                    | Opt                 | Opt                           |               |
|                   | Wi-Fi Interface                                     |                                 |                          | •   | Opt              | Opt           | Opt                           | Opt                                    | Opt                 | Opt                           |               |
|                   | Energy Consumption M                                | /loni                           | itoring through MELCloud |   |                  |               |                               |  |                     |                               |               |
| Installation      | Cleaning-free Pipe                                  | Re                              | euse                     | •   | •                | •             | •                             | •                                      | •                   | •                             |               |
|                   | Wiring/Piping Corre                                 | ect                             | ion Function             |   |                  |               |                               |  |                     |                               |               |
|                   | Drain Pump  |                                 |                          |   |                  |               |                               |  |                     |                               |               |
|                   | Flare Connection                                    |                                 |                          | •   | •                | •             | •                             | •                                      | •                   | •                             | П             |
| Maintenance       |   | ion                             | (Check Code Display)     | •   | •                | •             | •                             | •                                      | •                   | •                             |               |
|                   | Failure Recall Fund                                 |                                 |                          | •   | •                | •             | •                             | •                                      | •                   | •                             |               |

| March House    Marc |        |                          |                |               | M si   | ERIES  |               |                   |                         |                  |
|--|--------|--------------------------|----------------|---------------|--------|--------|---------------|-------------------|-------------------------|------------------|
| 0  |        | MSZ-SF25/35/<br>42/50VE3 | MSZ-GF60/71VE2 | MSZ-WN25/35VA |        |        | MSZ-HJ60/71VA | MFZ-KJ25/35/50VE2 | MFZ-KT25/35/<br>50/60VG | MLZ-KP25/35/50VF |
|  | MUZ-FH | MUZ-SF                   | MUZ-GF         | MUZ-WN        | MUZ-DM | MUZ-HJ | MUZ-HJ        | MUFZ-KJ           | SUZ-M                   | SUZ-M            |
|  | •      | •                        | •              | •             | •      | •      | •             | •                 | •                       | •                |
|  | •      | •                        | •              | •             | •      | •      | •             | •                 | •                       | •                |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
| O  | •      | •                        |                | •             | •      | •      | •             | •                 | •                       | •                |
|  | •      | •                        | •              | •             | •      |        | •             | •                 | •                       | •                |
|  | •      | •                        | •              | •             | •      | •      | •             | •                 | •                       | •                |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
|  | •      | •                        | •              | •             | •      | •      | •             | •                 | •                       | •                |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
| Control   Cont |        |                          |                | •             | •      | •      | •             |                   |                         | •                |
| Cot  | •      | •                        | •              |               |        |        |               | •                 | •                       |                  |
| Cot  |        |                          |                |               |        |        |               |                   |                         |                  |
|  | •      |                          |                |               |        |        |               |                   |                         |                  |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
|  | •      |                          |                |               |        |        |               | •                 | •                       | Opt              |
|  |        | •                        | •              |               |        |        |               |                   |                         |                  |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
|  |        |                          |                | •             |        |        |               |                   |                         |                  |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
|  | •      | •                        | •              |               | •      | •      | •             | •                 | •                       | •                |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
|  |        |                          |                | •             | •      | •      | •             |                   |                         |                  |
| Opt         Opt <td>•</td> <td>•</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>•</td> <td>•</td>  | •      | •                        | •              |               |        |        |               | •                 | •                       | •                |
| Opt         Opt <td></td>  |        |                          |                |               |        |        |               |                   |                         |                  |
| Opt         Opt <td></td>  |        |                          |                |               |        |        |               |                   |                         |                  |
| Opt         Opt <td></td>  |        |                          |                |               |        |        |               |                   |                         |                  |
| Opt         Opt <td></td>  |        |                          |                |               |        |        |               |                   |                         |                  |
| Opt         Opt <td></td>  |        |                          |                |               |        |        |               |                   |                         |                  |
| Opt         Opt <td></td>  |        |                          |                |               |        |        |               |                   |                         |                  |
| Opt         Opt <td>•</td> <td>•</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>•</td> <td>•</td>  | •      | •                        | •              |               |        |        |               | •                 | •                       | •                |
| Opt         Opt <td>Opt</td> <td>Opt</td> <td>Opt</td> <td>Opt</td> <td>Opt</td> <td></td> <td></td> <td>Opt</td> <td>Opt</td> <td>Opt</td>  | Opt    | Opt                      | Opt            | Opt           | Opt    |        |               | Opt               | Opt                     | Opt              |
| Opt         Opt <td>Opt</td> <td>Opt</td> <td>Opt</td> <td>Opt</td> <td>Opt</td> <td></td> <td></td> <td>Opt</td> <td>Opt</td> <td>Opt</td>  | Opt    | Opt                      | Opt            | Opt           | Opt    |        |               | Opt               | Opt                     | Opt              |
| Opt         Opt <td>Opt</td> <td>Opt</td> <td>Opt</td> <td></td> <td>Opt</td> <td></td> <td></td> <td>Opt</td> <td>Opt</td> <td>Opt</td>   | Opt    | Opt                      | Opt            |               | Opt    |        |               | Opt               | Opt                     | Opt              |
| Opt         Opt <td></td>  |        |                          |                |               |        |        |               |                   |                         |                  |
| Opt         Opt <td></td>  |        |                          |                |               |        |        |               |                   |                         |                  |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
|  | Opt    | Opt                      | Opt            | Opt           | Opt    |        |               | Opt               | Opt                     | Opt              |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
|  | •      | •                        | •              | •             | •      | •      | •             | •                 | •                       |                  |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
|  | -      |                          |                |               |        |        |               |                   |                         |                  |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
|  |        |                          |                |               |        |        |               |                   |                         |                  |
|  | •      | _                        | _              | _             | •      |        |               |                   |                         |                  |

The figures listed in the table are "only when combined with an outdoor unit with the appropriate capacity range".
 Opt: Separate parts must be purchased.

# **FUNCTION LIST (2)**

| Category          | Icon   |       |            | S sı           | ERIES    |             |                |
|-------------------|--|-------|------------|----------------|----------|-------------|----------------|
|                   | Indoor unit                                      |       | SLZ-M15/25 | /35/50/60FA *4 |          | SEZ-M25/35/ | /50/60/71DA(L) |
|                   | Outdoor unit Outdoor unit                        | SUZ-M | SUZ-KA     | PUZ-ZM         | PUHZ-ZRP | SUZ-M       | SUZ-KA         |
| echnology         | DC Inverter                                      | •     | •          | •              | •        | •           | •              |
|                   | Joint Lap DC Motor                               | •     | •          |                |          | •           | •              |
|                   | Magnetic Flux Vector Sine Wave Drive             |       |            | •              | •        |             |                |
|                   | Reluctance DC Rotary Compressor                  | •     | •          |                |          | •           | •              |
|                   | Highly Efficient DC Scroll Compressor            |       |            | •              | •        |             |                |
|                   | Heating Caulking (Compressor)                    | •     | •          |                |          | •           | •              |
|                   | DC Fan Motor                                     | •     | •          | •              | •        | •           | •              |
|                   | Vector-Wave Eco Inverter                         |       |            | •              | •        |             |                |
|                   | PAM (Pulse Amplitude Modulation)                 | •     | •          | •              | •        | •           | •              |
|                   | Power Receiver and Twin LEV Control              |       |            | •              | •        |             |                |
|                   | Grooved Piping                                   | •     | •          | •              | •        | •           | •              |
| i-see Sensor      | Felt Temperature Control (3D i-see Sensor)       |       |            |                |          | •           |                |
| 1-300 3011301     |  | Opt   | Opt        | Opt            | Opt      |             |                |
| Enorgy Coulo      | AREA Temperature Monitor                         | Opt   | Opt        | Opt            | Opt      |             |                |
| Energy Saving     | Demand Function                                  |       |            |                |          |             |                |
| Attractive        | Pure White                                       | •     | •          | •              | •        |             |                |
|                   | Auto Vane  | •     | •          | •              | •        |             |                |
| Air Quality       | Fresh-air Intake                                 | •     | •          | •              | •        |             |                |
|                   | High-efficiency Filter                           |       |            |                |          |             |                |
|                   | Oil Mist Filter                                  |       |            |                |          |             |                |
|                   | Long-life Filter                                 | •     | •          | •              | •        |             |                |
|                   | Filter Check Signal                              | •     | •          | •              | •        |             |                |
| Air               | Horizontal Vane                                  | •     | •          | •              | •        |             |                |
| Distribution      | Vertical Vane                                    |       |            |                |          |             |                |
|                   | High Ceiling Mode                                | •     | •          | •              | •        |             |                |
|                   | Low Ceiling Mode                                 |       |            |                |          |             |                |
|                   | Auto Fan Speed Mode                              | •     | •          | •              | •        | •           | •              |
| Convenience       | On/off Operation Timer                           | •     | •          | •              | •        | •           | •              |
|                   | Auto Changeover                                  | •     | •          | •              | •        | •           | •              |
|                   | Auto Restart                                     | •     | •          | •              | •        | •           | •              |
|                   | Low-temperature Cooling                          | •     | •          | •              | •        | •           | •              |
| ,                 | Low-noise Operation (Outdoor Unit)               |       |            | •              | •        |             |                |
|                   | Ampere Limit Adjustment                          |       |            | 60-140V        | 60-140V  |             |                |
|                   | Operation Lock                                   |       |            | 00-1404        | 00-1407  |             |                |
|                   | Rotation, Back-up and 2nd Stage Cut-in Functions |       |            |                |          |             |                |
|                   | Dual Set Point *3                                |       |            | •              | •        |             |                |
| Custo             |  |       | 6 :        | 0.1            | 0        |             |                |
| System<br>Control | PAR-40MAA Control *1                             | Opt   | Opt        | Opt            | Opt      | Opt         | Opt            |
|                   | PAR-CT01MAA Control *1                           | Opt   | Opt        | Opt            | Opt      | Opt         | Opt            |
|                   | PAC-YT52CRA Control *1                           | Opt   | Opt        | Opt            | Opt      | Opt         | Opt            |
|                   | Centraliesd On/Off Control *1                    | Opt   | Opt        | Opt            | Opt      | Opt         | Opt            |
|                   | System Group Control *1                          | Opt   | Opt        | Opt            | Opt      | Opt         | Opt            |
|                   | M-NET Connection *1                              | Opt   | Opt        |                |          | Opt         | Opt            |
|                   | COMPO *2   |       |            | 71-140         | 71-140   |             |                |
|                   | Energy Consumption Monitoring through MELCloud   |       |            |                |          |             |                |
| Installation      | Cleaning-free Pipe Reuse                         | •     | •          | •              | •        | •           | •              |
|                   | Reuse of Existing Wiring                         |       |            |                |          |             |                |
|                   | Wiring/Piping Correction Function                |       |            |                |          |             |                |
|                   | Drain Pump                                       | •     | •          | •              | •        | Opt         | Opt            |
|                   | Pump Down Switch                                 |       |            |                |          |             |                |
|                   | Flare Connection                                 | •     | •          | •              | •        | •           | •              |
| Maintenance       | Self-Diagnosis Function (Check Code Display)     | •     | •          | •              | •        | •           | •              |
|                   | Failure Recall Function                          | •     | •          | •              | •        | •           | •              |

<sup>11</sup> Please refer to "System Control" on pages for details.

12 Please refer to page 57 for details.

13 This function is only available with PAR-40MAA, PAC-YT52CRA, PAR-SL100A-E.

14 SLZ-M15 can be connected with R32 MXZ only.

If a numerical figure is listed, the feature is only available with the outdoor unit of that capacity.
 Opt: Optional parts must be purchased.

| Category                                       | Icon                 |             |                        |             |                    |                    |             | P se               | RIES               |                  |             |             |             |
|--|----------------------|-------------|------------------------|-------------|--------------------|--------------------|-------------|--------------------|--------------------|------------------|-------------|-------------|-------------|
|  |                      | _           | Indoor unit            | DIA ZMOS    | /E0/60/71/100/     | 125/14054          |             |                    | DI A MOE           | /50/60/71/100/1  | 12E/140EA   |             |             |
|  |                      | natio       | Indoor unit            | PLA-ZM35    | 5/50/60/71/100/    | 125/140EA          |             |                    | PLA-M35            | /50/60// 1/100/1 | 125/14UEA   |             |             |
|  |                      | Combination | Outdoor unit           | PUHZ-SHW    | PUZ-ZM             | PUHZ-ZRP           | PUHZ-SHW    | PUZ-ZM             | PUHZ-ZRP           | SUZ-M            | SUZ-KA      | PUZ-M       | PUHZ-P      |
| Technology                                     | DC Inverter          |             |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
|  | Joint Lap DC M       | lotor       |                        |             | 35-71              | 35-71              |             | 35-71              | 35-71              | •                | •           | 100         | 100         |
|  | Magnetic Flux Ve     | ector S     | Sine Wave Drive        | •           | •                  | •                  | •           | •                  | •                  |                  |             | •           | •           |
|  | Reluctance DC F      | Rotary      | Compressor             |             | 35-71              | 35-71              |             | 35-71              | 35-71              | •                | •           | 100-140     | 100-140     |
|  | Highly Efficient D   | C Sc        | roll Compressor        | •           | 100-250            | 100-250            | •           | 100-250            | 100-250            |                  |             | 200-250     | 200-250     |
|  | Heating Caulking     | ng (C       | Compressor)            |             | 35-71              | 35-71              |             | 35-71              | 35-71              | •                | •           | 100         | 100         |
|  | DC Fan Motor         |             |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
|  | Vector-Wave E        | co In       | verter                 | •           | •                  | •                  | •           | •                  | •                  |                  |             | •           | •           |
|  | PAM (Pulse Am        | nplitu      | de Modulation)         | •           | 35-140             | 35-140             | •           | 35-140             | 35-140             | •                | •           | 100-140V    | 100-140V    |
|  | Power Receiver       | and T       | win LEV Control        | •           | 35-250             | 35-140             | •           | 35-250             | 35-140             |                  |             | 100-250     | 100-140     |
|  | Grooved Piping       | 9           |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
| i-see Sensor                                   | Felt Temperature (   | Contro      | ol (3D i-see Sensor)   | Opt         | Opt                | Opt                | Opt         | Opt                | Opt                | Opt              | Opt         | Opt         | Opt         |
|  | AREA Tempera         | ature       | Monitor                | Opt         | Opt                | Opt                | Opt         | Opt                | Opt                | Opt              | Opt         | Opt         | Opt         |
| Energy Savir                                   | Demand Functi        | ion         |                        | Opt         | Opt                | Opt                | Opt         | Opt                | Opt                |                  |             | Opt         | Opt         |
| Attractive                                     | Pure White           |             |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
|  | Auto Vane            |             |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
| Air Quality                                    | Fresh-air Intake     | Э           |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
|  | High-efficiency      | Filter      | r                      | Opt         | Opt                | Opt                | Opt         | Opt                | Opt                | Opt              | Opt         | Opt         | Opt         |
|  | Oil Mist Filter      |             |                        |             |                    |                    |             |                    |                    |                  |             |             |             |
|  | Long-life Filter     |             |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
|  | Filter Check Sig     | gnal        |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
| Air<br>Distribution                            | Horizontal Vane      | е           |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
| Distribution                                   | Vertical Vane        |             |                        |             |                    |                    |             |                    |                    |                  |             |             |             |
|  | High Ceiling Mo      | ode         |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
|  | Low Ceiling Mo       | ode         |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
|  | Auto Fan Spee        | d Mo        | ode                    | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
| Convenience                                    | On/off Operation     | n Tin       | mer                    | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
|  | Auto Changeov        | /er         |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
|  | Auto Restart         |             |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
|  | Low-temperatu        | re Co       | ooling                 | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
| ons  | Low-noise Ope        | ratior      | n (Outdoor Unit)       | •           | 00.140)/           | 00.440)/           | •           | 00.440)/           | 00.440)/           |                  |             | •           | •           |
| Functions                                      | Ampere Limit A       | djust       | tment                  | 112/140     | 60-140V<br>200/250 | 60-140V<br>200/250 | 112/140     | 60-140V<br>200/250 | 60-140V<br>200/250 |                  |             |             |             |
| ш.   | Operation Lock       |             |                        |             |                    |                    |             |                    |                    |                  |             |             |             |
|  | Rotation, Back-up ar | nd 2nd      | Stage Cut-in Functions | •           | •                  | •                  | •           | •                  | •                  |                  |             | •           | •           |
| i  | Dual Set Point       |             |                        |             | •                  | •                  |             | •                  | •                  |                  |             | •           | •           |
| System<br>Control                              | PAR-40MAA C          |             |                        | Opt         | Opt                | Opt                | Opt         | Opt                | Opt                | Opt              | Opt         | Opt         | Opt         |
|  | PAR-CT01MAA          |             |                        | Opt         | Opt                | Opt                | Opt         | Opt                | Opt                | Opt              | Opt         | Opt         | Opt         |
|  | PAC-YT52CRA          |             |                        | Opt         | Opt                | Opt                | Opt         | Opt                | Opt                | Opt              | Opt         | Opt         | Opt         |
|  | Centraliesd On       |             |                        | Opt         | Opt                | Opt                | Opt         | Opt                | Opt                | Opt              | Opt         | Opt         | Opt         |
|  | System Group         |             |                        | •           | •                  | •                  | •           | •                  | •                  | Opt              | Opt         | •           | •           |
|  | M-NET Connec         | ction '     | *1                     | Opt         | Opt                | Opt                | Opt         | Opt                | Opt                | Opt              | Opt         | Opt         | Opt         |
|  | COMPO *2             |             |                        | •           | 71-250             | 71-250             | •           | 71-250             | 71-250             |                  |             | •           | •           |
|  |                      |             | oring through MELCloud |             |                    |                    |             |                    |                    |                  |             |             |             |
| Installation                                   | Cleaning-free F      |             |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
|  | Reuse of Existi      |             |                        | Opt         | Opt                | Opt                | Opt         | Opt                | Opt                |                  |             | Opt         | Opt         |
|  | Wiring/Piping C      | Correc      | ction Function         |             |                    |                    |             |                    |                    |                  |             |             |             |
|  | Drain Pump           |             |                        | <b>●</b> *3 | <b>●</b> *3        | <b>●</b> *3        | <b>●</b> *3 | <b>●</b> *3        | <b>●</b> *3        | <b>●</b> *3      | <b>●</b> *3 | <b>●</b> *3 | <b>●</b> *3 |
|  | Pump Down Sv         |             |                        | •           | •                  | •                  | •           | •                  | •                  |                  |             | •           | •           |
| <del>                                   </del> | Flare Connection     |             |                        | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
| Maintenance                                    |                      |             | Check Code Display)    | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           | •           |
|  | Failure Recall F     |             | tion                   | •           | •                  | •                  | •           | •                  | •                  | •                | •           | •           |             |

<sup>11</sup> Please refer to "System Control" on pages for details.

12 Please refer to page 64 for details.

13 PEAD-M JAL are not equipped with a drain pump.

14 This function is only available with PAR-40MAA, PAC-YT52CRA, PAR-SL100A-E.

If a numerical figure is listed, the feature is only available with the outdoor unit of that capacity.
 Opt: Optional parts must be purchased.

# **FUNCTION LIST (2)**

| Category          | Icon  |                         |              |            |              |              |            |           | P SERIES                        |            |              |           |            |            |              |   |
|-------------------|---|-------------------------|--------------|------------|--------------|--------------|------------|-----------|---------------------------------|------------|--------------|-----------|------------|------------|--------------|---|
|                   |   | Indoor unit             |              | PEAD       | -M35/50/60/7 | 1/100/125/14 | 0JA(L)     |           | PEAD-<br>M35/50/60/<br>71/JA(L) |            | PEA-M2       | 200/250LA |            | PKA-M35    | 5/50LA(L)    |   |
|                   | Combination   | Outdoor unit            | PUHZ<br>-SHW | PUZ<br>-ZM | PUHZ<br>-ZRP | PUZ<br>-M    | PUHZ<br>-P | SUZ<br>-M | SUZ<br>-KA                      | PUZ<br>-ZM | PUHZ<br>-ZRP | PUZ<br>-M | PUHZ<br>-P | PUZ<br>-ZM | PUHZ<br>-ZRP |   |
| Technology        | DC Inverter   |                         | •            | •          | •            | •            | •          | •         | •                               | •          | •            | •         | •          | •          | •            |   |
|                   | Joint Lap DC Motor  |                         |              | 35-71      | 35-71        | 100          | 100        | •         | •                               |            |              |           |            | 35-71      | 35-71        |   |
|                   | Magnetic Flux Vector S                                      | Sine Wave Drive         | •            | •          | •            | •            | •          |           |                                 | •          | •            | •         | •          | •          | •            |   |
|                   | Reluctance DC Rotary  | Compressor              |              | 35-71      | 35-71        | 100-140      | 100-140    | •         | •                               |            |              |           |            | 35-71      | 35-71        |   |
|                   | Highly Efficient DC Sci                                     | roll Compressor         | •            | 100-250    | 100-250      | 200/250      | 200/250    |           |                                 | •          | •            | •         | •          | 100-200    | 100-200      |   |
|                   | Heating Caulking (C   | ompressor)              |              | 35-71      | 35-71        | 100          | 100        | •         | •                               |            |              |           |            | 35-71      | 35-71        |   |
|                   | DC Fan Motor  |                         | •            | •          | •            | •            | •          | •         | •                               | •          | •            | •         | •          | •          | •            |   |
|                   | Vector-Wave Eco In  | verter                  | •            | •          | •            | •            | •          |           |                                 | •          | •            | •         | •          | •          | •            |   |
|                   | PAM (Pulse Amplitud   | de Modulation)          | •            | 35-140     | 35-140       | 100-140V     | 100-140V   | •         | •                               |            |              |           |            | 35-140     | 35-140       |   |
|                   | Power Receiver and To                                       | · ·                     | •            | 35-250     | 35-140       | 100-250      | 100-140    |           |                                 | •          |              | •         |            | 35-200     | 35-140       |   |
|                   | Grooved Piping  |                         | •            | •          | •            | •            | •          | •         | •                               | •          | •            | •         | •          | •          | •            |   |
| i-see Sensor      | -   | I (3D i-see Sensor)     |              |            |              |              |            |           |                                 |            |              |           |            |            |              |   |
|                   | AREA Temperature  |                         |              |            |              |              |            |           |                                 |            |              |           |            |            |              |   |
| Energy Savin      | g Demand Function   |                         | Opt          | Opt        | Opt          | Opt          | Opt        |           |                                 | Opt        | Opt          | Opt       | Opt        | Opt        | Opt          |   |
| Attractive        | Pure White  |                         | Эрг          | Орг        | Орг          | Эрг          | Opi        |           |                                 | Opt        | Орг          | Эрг       | Spi        | Орг        | Орг          |   |
|                   | Auto Vane   |                         |              |            |              |              |            |           |                                 |            |              |           |            | •          | •            |   |
| Air Quality       | Fresh-air Intake  |                         |              |            |              |              |            |           |                                 |            |              |           |            |            |              |   |
|                   | High-efficiency Filter                                      | ,                       |              |            |              |              |            |           |                                 |            |              |           |            |            |              |   |
|                   | Oil Mist Filter   |                         |              |            |              |              |            |           |                                 |            |              |           |            |            |              |   |
|                   | Long-life Filter  |                         | •            | •          | •            | •            | •          | •         | •                               | Ont        | Ont          | Ont       | Ont        |            |              |   |
|                   | Filter Check Signal   |                         | •            | •          | •            | •            | •          | •         | •                               | Opt        | Opt          | Opt       | Opt        | Opt        | Opt          |   |
| Air               | Horizontal Vane   |                         |              |            |              |              |            |           |                                 |            |              |           |            | Орг        | Орг          |   |
| Distribution      | Vertical Vane   |                         |              |            |              |              |            |           |                                 |            |              |           |            |            |              |   |
|                   | High Ceiling Mode   |                         |              |            |              |              |            |           |                                 |            |              |           |            |            |              |   |
|                   | Low Ceiling Mode  |                         |              |            |              |              |            |           |                                 |            |              |           |            |            |              |   |
|                   | Auto Fan Speed Mo   | do                      | •            | •          | •            | •            | •          | •         | •                               | •          | •            | •         | •          | •          | •            |   |
| Convenience       | On/off Operation Tim  |                         | •            | •          | •            | •            | •          | •         | •                               | •          | •            | •         | •          | •          | •            |   |
| Convenience       | Auto Changeover   | ici                     | •            | •          | •            | •            | •          | •         | •                               | •          | •            | •         |            | •          | •            |   |
|                   | Auto Changeover  Auto Restart                               |                         | •            | •          | •            | •            | •          | •         | •                               | •          | •            | •         | •          | •          | •            |   |
|                   | Low-temperature Co  | ooling                  | •            | •          | •            | •            | •          | •         | •                               | •          | •            | •         | •          | •          | •            |   |
|                   | Low-noise Operation   |                         | •            | •          | •            | •            | •          |           |                                 | •          | •            | •         | •          | •          | •            |   |
| tions             |   |                         |              | 60-140V    | 60-140V      |              |            |           |                                 |            | •            | •         |            | 71-140V    | 71-140V      |   |
| Functions         | Ampere Limit Adjust Operation Lock                          | mont                    | 112/140      | 200/250    | 200/250      |              |            |           |                                 |            | -            |           |            | 200        | 200          |   |
|                   | -   | Stage Cut in Eurotions  | •            |            |              |              |            |           |                                 |            |              |           |            |            |              |   |
|                   | Rotation, Back-up and 2nd 2nd 2nd 2nd 2nd 2nd 2nd 2nd 2nd 2 | Stage Cut-III Functions |              | •          | •            | •            | •          |           |                                 | •          |              | •         |            | •          | •            |   |
| Custom            | PAR-40MAA Control   | 1*1                     | 0.1          | •          | •            | •            | 0.1        | 0.1       | 0.1                             | •          | •            |           | •          |            |              |   |
| System<br>Control | PAR-CT01MAA Con   |                         | Opt          | Opt        | Opt          | Opt          | Opt        | Opt       | Opt                             | Opt        | Opt          | Opt       | Opt        | Opt        | Opt          |   |
|                   |   |                         | Opt          | Opt        | Opt          | Opt          | Opt        | Opt       | Opt                             | Opt        | Opt          | Opt       | Opt        | Opt        | Opt          |   |
|                   | PAC-YT52CRA Con Centraliesd On/Off C                        |                         | Opt          | Opt        | Opt          | Opt          | Opt        | Opt       | Opt                             | Opt        | Opt          | Opt       | Opt        | Opt        | Opt          |   |
|                   | System Group Contr  |                         | Opt          | Opt        | Opt          | Opt          | Opt        | Opt       | Opt                             | Opt        |              | Opt       |            | Opt        | Opt          | - |
|                   | M-NET Connection  |                         | •            | •          | •            | •            | •          | Opt       | Opt                             | •          | •            | •         | •          | Opt        | Opt          |   |
|                   |   | 1                       | Opt          | Opt        | Opt          | Opt          | Opt        | Opt       | Opt                             | Opt        | Opt          | Opt       | Opt        | Opt        | Opt          |   |
|                   | COMPO *2  | de albertal MELOLET     | •            | 71-250     | 71-250       | •            | •          |           |                                 | •          |              | •         |            | 71-200     | 71-200       |   |
|                   | Energy Consumption Monito                                   | • •                     |              |            |              |              |            |           |                                 |            |              |           |            |            |              |   |
| Installation      |   |                         |              | •          | •            | •            | •          | •         | •                               | •          | •            | •         | •          | •          | •            |   |
|                   | Reuse of Existing W   |                         | Opt          | Opt        | Opt          | Opt          | Opt        |           |                                 |            |              |           |            | Opt        | Opt          |   |
|                   |   | ction Function          | _            |            | _            |              | _          | _         | _                               |            |              |           |            |            |              |   |
|                   | Wiring/Piping Correction Fun Drain Pump Pump Down Switch    |                         | <b>•</b> *3  | •*3        | •*3          | •*3          | •*3        | ●*3       | <b>•</b> *3                     | Opt        | Opt          | Opt       | Opt        | Opt        | Opt          |   |
|                   | Pump Down Switch  |                         | •            | •          | •            | •            | •          | _         |                                 | •          | •            | •         | •          | •          | •            |   |
|                   | Flare Connection  |                         | •            | •          | •            | •            | •          | •         | •                               | •          | •            | •         | •          | •          | •            |   |
| Maintenance       | Self-Diagnosis Function (C<br>Failure Recall Funct          |                         | •            | •          | •            | •            | •          | •         | •                               | •          | •            | •         | •          | •          | •            |   |
|                   |   | ion                     |              |            |              | •            |            |           |                                 |            | •            |           |            |            |              | 1 |

<sup>1</sup> Please refer to "System Control" on pages for details.
2 Please refer to page 64 for details.
3 PEAD-M JAL are not equipped with a drain pump.
4 This function is only available with PAR-40MAA, PAC-YT52CRA, PAR-SL100A-E.

|           |            |              |                    |              |           |            |                    |                    | P SERIES  |               |           |            |            |                    |                    |                        |
|-----------|------------|--------------|--------------------|--------------|-----------|------------|--------------------|--------------------|-----------|---------------|-----------|------------|------------|--------------------|--------------------|------------------------|
| PKA-M35   | 5/50LA(L)  |              | PKA                | -M60/71/100k | (A(L)     |            |                    | PC/                |           | 71/100/125/14 | 10KA      |            | PCA-N      | M71HA              | RP7                | SA-<br>1/100/<br>140KA |
| PUZ<br>-M | PUHZ<br>-P | PUHZ<br>-SHW | PUZ<br>-ZM         | PUHZ<br>-ZRP | PUZ<br>-M | PUHZ<br>-P | PUZ<br>-ZM         | PUHZ<br>-ZRP       | PUZ<br>-M | PUHZ<br>-P    | SUZ<br>-M | SUZ<br>-KA | PUZ<br>-ZM | PUHZ<br>-ZRP       | PUHZ<br>-ZRP       | PUHZ<br>-P             |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          | •          | •                  | •                  | •                      |
| 100       | 100        |              | 60/71              | 60/71        | 100       | 100        | 35-71              | 35-71              | 100       | 100           | •         | •          | 71         | 71                 | 71                 | 100                    |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             |           |            | •          | •                  | •                  | •                      |
| •         | 100-140    |              | 60/71              | 60/71        | 100-140   | 100-140    | 35-71              | 35-71              | 100-140   | 100-140       | •         | •          | 71         | 71                 | 71                 | 100-140                |
|           | 200        | •            | 100-250            | 100-250      | 200/250   | 200/250    | 100-250            | 100-250            | 200/250   | 200/250       |           |            | 100-250    | 100-250            | 100-250            | 200/250                |
|           |            |              | 60/71              | 60/71        | 100       | 100        | 35-71              | 35-71              | 100       | 100           | •         | •          | 71         | 71                 | 71                 | 100                    |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          | •          | •                  | •                  | •                      |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             |           |            | •          | •                  | •                  | •                      |
| 100V-140V | 100V-140V  | •            | 60-140             | 60-140       | 100-140V  | 100-140V   | 35-140             | 35-140             | 100-140V  | 100-140V      | •         | •          | 71-140     | 71-140             | 71-140             | 100-140V               |
| 100-140   | 100-140    | •            | 60-250             | 60-140       | 100-250   | 100-140    | 35-250             | 35-140             | 100-250   | 100-140       |           |            | 71-250     | 71-140             | 71-140             | 100-140                |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          | •          | •                  | •                  | •                      |
|           |            |              |                    |              |           |            |                    |                    |           |               |           |            |            |                    |                    |                        |
|           |            |              |                    |              |           |            |                    |                    |           |               |           |            |            |                    |                    |                        |
| Opt       | Opt        | Opt          | Opt                | Opt          | Opt       | Opt        | Opt                | Opt                | Opt       | Opt           |           |            | Opt        | Opt                | Opt                | Opt                    |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          |            |                    | •                  | •                      |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          |            |                    |                    |                        |
|           |            |              |                    |              |           |            | •                  | •                  | •         | •             | •         | •          | •          | •                  |                    |                        |
|           |            |              |                    |              |           |            | Opt                | Opt                | Opt       | Opt           | Opt       | Opt        |            |                    |                    |                        |
|           |            |              |                    |              |           |            |                    |                    |           |               |           |            | •          | •                  |                    |                        |
|           |            |              |                    |              |           |            | •                  | •                  | •         | •             | •         | •          |            |                    | •                  | •                      |
| Opt       | Opt        | Opt          | Opt                | Opt          | Opt       | Opt        | •                  | •                  | •         | •             | •         | •          | •          | •                  | •                  | •                      |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          |            |                    |                    |                        |
|           |            |              |                    |              |           |            |                    |                    |           |               |           |            |            |                    | •                  | •                      |
|           |            |              |                    |              |           |            | •                  | •                  | •         | •             | •         | •          |            |                    |                    |                        |
|           |            |              |                    |              |           |            | •                  | •                  | •         | •             | •         | •          |            |                    |                    |                        |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          |            |                    | •                  | •                      |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          | •          | •                  | •                  | •                      |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          | •          | •                  | •                  | •                      |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          | •          | •                  | •                  | •                      |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          | •          | •                  | •                  | •                      |
| •         | •          | •            | CO 140V            | 60-140V      | •         | •          | CO 140V            | CO 140V            | •         | •             |           |            | •          | 71 1401/           | 71 140\/           | •                      |
|           |            | 112/140      | 60-140V<br>200/250 | 200/250      |           |            | 60-140V<br>200/250 | 60-140V<br>200/250 |           |               |           |            |            | 71-140V<br>200/250 | 71-140V<br>200/250 |                        |
|           |            |              |                    |              |           |            |                    |                    |           |               |           |            |            |                    |                    |                        |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             |           |            | •          | •                  |                    |                        |
| •         | •          |              | •                  | •            | •         | •          | •                  | •                  | •         | •             |           |            |            |                    |                    |                        |
| Opt       | Opt        | Opt          | Opt                | Opt          | Opt       | Opt        | Opt                | Opt                | Opt       | Opt           | Opt       | Opt        | Opt        | Opt                |                    |                        |
| Opt       | Opt        | Opt          | Opt                | Opt          | Opt       | Opt        | Opt                | Opt                | Opt       | Opt           | Opt       | Opt        | Opt        | Opt                |                    |                        |
| Opt       | Opt        | Opt          | Opt                | Opt          | Opt       | Opt        | Opt                | Opt                | Opt       | Opt           | Opt       | Opt        | Opt        | Opt                |                    |                        |
| Opt       | Opt        | Opt          | Opt                | Opt          | Opt       | Opt        | Opt                | Opt                | Opt       | Opt           | Opt       | Opt        | Opt        | Opt                | Opt                | Opt                    |
| Opt       | Opt        | Opt          | Opt                | Opt          | Opt       | Opt        | •                  | •                  | •         | •             | Opt       | Opt        | •          | •                  | Opt                | Opt                    |
| Opt       | Opt        | Opt          | Opt                | Opt          | Opt       | Opt        | Opt                | Opt                | Opt       | Opt           | Opt       | Opt        | Opt        | Opt                | Opt                | Opt                    |
| •         | •          | •            | 71-250             | 71-250       | •         | •          | 71-250             | 71-250             | •         | •             |           |            | 71-250     | 71-250             | 71-250             | •                      |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          | •          | •                  | •                  | •                      |
| Opt       | Opt        | Opt          | Opt                | Opt          | Opt       | Opt        | Opt                | Opt                | Opt       | Opt           | ,         |            | Opt        | Opt                | Opt                | Opt                    |
| -1        |            | -4,          |                    |              |           |            |                    |                    | 75.       |               |           |            | 75.        |                    |                    | 26.                    |
| Opt       | Opt        | Opt          | Opt                | Opt          | Opt       | Opt        | Opt                | Opt                | Opt       | Opt           | Opt       | Opt        |            |                    |                    |                        |
| •         | •          | •            | Φ.                 | •            | •         | Φ.         | Φ.                 | •                  | •         | •             | - 61      | - 61       | •          | •                  | •                  | •                      |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          | •          | •                  | •                  | •                      |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          | •          | •                  | •                  | •                      |
| •         | •          | •            | •                  | •            | •         | •          | •                  | •                  | •         | •             | •         | •          | •          | •                  | •                  | •                      |
| -         | _          |              | _                  |              | _         |            |                    | _                  | _         |               |           |            |            |                    |                    | that capacity.         |

If a numerical figure is listed, the feature is only available with the outdoor unit of that capacity.
 Opt: Optional parts must be purchased.

# **FUNCTION LIST (2)**

| Category            | Icon   |             |             |             |             |             |             | MXZ s       | SERIES      |             |             |      |             |             |             |                |
|---------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|-------------|-------------|-------------|----------------|
|                     | Series   |             |             | Std         |             |             | Lo-         | std         | Н           | l2i         | Lo          | -std |             | Std         |             |                |
|                     |  |             |             | MXZ-VA(2)   |             |             | MX          | Z-VA        | MX          | Z-VA        | MX          | Z-VF |             | MXZ-VF3     |             |                |
|                     | Outdoor unit                                     | 2D          | 3E          | 4E          | 5E          | 6D          | 2DM         | 3DM         | 2E          | 4E          | 2HA         | ЗНА  | 2F          | 3F          | 4F          |                |
| echnology           | DC Inverter                                      | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •    | •           | •           | •           | ${}^{-}$       |
|                     | Joiint Lap DC Motor                              | •           | •           | •           | •           |             | •           | •           | •           |             | •           | •    | •           | •           | •           |                |
|                     | Magnetic Flux Vector Sine Wave Drive             |             |             |             |             |             |             |             |             |             |             |      |             |             |             | 1              |
|                     | Reluctance DC Rotary Comperssor                  |             |             | 83          | •           | •           |             |             |             |             |             |      |             |             |             |                |
|                     | Highly Efficient DC Scroll Compressor            |             |             | 00          |             |             |             |             |             |             |             |      |             |             |             | ┢              |
|                     |  |             |             |             |             |             |             |             |             |             |             |      |             |             |             | $\vdash$       |
|                     | Heating Caulking (Compressor)                    | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •    | •           | •           | •           | +              |
|                     | DC Fan Motor                                     | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •    | •           | •           | •           | ⊢              |
|                     | Vector-Wave Eco Inverter                         |             |             |             |             |             |             |             |             |             |             |      |             |             |             | _              |
|                     | PAM (Pulse Amplitude Modulation)                 | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •    | •           | •           | •           | Щ              |
|                     | Power Receiver and Twin LEV Control              |             | •           | 72          |             |             |             | •           |             |             |             | •    |             | •           | •           |                |
|                     | Grooved Piping                                   | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •    | •           | •           | •           |                |
| i-see Sensor        | Felt Temperature Control (3D i-see)              |             |             |             |             |             |             |             |             |             |             |      |             |             |             |                |
|                     | AREA Temperature Monitor                         |             |             |             |             |             |             |             |             |             |             |      |             |             |             |                |
| Energy Saving       | Demand Function                                  |             |             |             |             |             |             |             |             |             |             |      |             |             |             |                |
| Attractive          | Pure White                                       |             |             |             |             |             |             |             |             |             |             |      |             |             |             | Т              |
|                     | Auto Vane  |             |             |             |             |             |             |             |             |             |             |      |             |             |             |                |
| Air Quality         | Fresh-air Intake                                 |             |             |             |             |             |             |             |             |             |             |      |             |             |             | T              |
|                     | High-efficiency Filter                           |             |             |             |             |             |             |             |             |             |             |      |             |             |             | $\vdash$       |
|                     | Oil Mist Filter                                  |             |             |             |             |             |             |             |             |             |             |      |             |             |             | +              |
|                     | Filter Check Signal                              |             |             |             |             |             |             |             |             |             |             |      |             |             |             | $\vdash$       |
| A.i.,               |  |             |             |             |             |             |             |             |             |             |             |      |             |             |             | ₩              |
| Air<br>Distribution | Horizontal Vane                                  |             |             |             |             |             |             |             |             |             |             |      |             |             |             | ╄              |
|                     | Vertical vane                                    |             |             |             |             |             |             |             |             |             |             |      |             |             |             | ▙              |
|                     | High Ceiling Mode                                |             |             |             |             |             |             |             |             |             |             |      |             |             |             |                |
|                     | Auto Fan Speed Mode                              |             |             |             |             |             |             |             |             |             |             |      |             |             |             |                |
| Convenience         | On/off Operation Timer                           |             |             |             |             |             |             |             |             |             |             |      |             |             |             |                |
|                     | Auto Changeover                                  | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •    | •           | •           | •           |                |
|                     | Auto Restart                                     | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •    | •           | •           | •           |                |
|                     | Low- temperature Cooling                         | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •    | •           | •           | •           | Т              |
|                     | 10°C Heating                                     | <b>●</b> *1 | <b>•</b> *1 | <b>•</b> *1 | <b>•</b> *1 | <b>•</b> *1 |             |             | <b>•</b> *1 | <b>•</b> *1 |             |      | <b>•</b> *1 | <b>•</b> *1 | <b>•</b> *1 | T              |
|                     | Low-noise Operation (Outdoor)                    | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •    | •           | •           | •           |                |
|                     | Night Mode                                       |             |             |             |             |             |             |             |             |             |             |      |             |             |             | ${}^{\dagger}$ |
|                     | Ampere Linit Adjustment                          |             |             | 83          | •           | •           |             |             | •           | •           |             |      |             |             |             |                |
| 2                   | Operation Lock (Indoor)                          |             |             | 0.5         |             |             |             |             |             |             |             |      |             |             |             | ┢              |
|                     |  |             |             |             |             |             |             |             |             |             |             |      |             |             |             | ┢              |
| 2                   | Operation Lock (Outdoor)                         | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •    | •           | •           | •           | ₩              |
|                     | Built-in Weekly Timer Function                   |             |             |             |             |             |             |             |             |             |             |      |             |             |             | _              |
|                     | Rotation, Back-up abd 2nd Stage Cut-in Functions |             |             |             |             |             |             |             |             |             |             |      |             |             |             |                |
|                     | Dual Set Point                                   |             |             |             |             |             |             |             |             |             |             |      |             |             |             | ┺              |
| System<br>Control   | PAR-40MAA Control                                | Opt         | Opt  | Opt         | Opt         | Opt         |                |
|                     | PAR-CT01MAA Cotrol                               | Opt         | Opt  | Opt         | Opt         | Opt         |                |
|                     | PAC-YT52CRA Control                              | Opt         | Opt  | Opt         | Opt         | Opt         |                |
|                     | Centralised On/off Control                       | Opt         | Opt  | Opt         | Opt         | Opt         | П              |
|                     | System Group Control                             | Opt         | Opt  | Opt         | Opt         | Opt         |                |
|                     | M-NET Connection                                 |             |             | Opt (83)    | Opt         | Opt         |             |             | Opt         | Opt         |             |      |             |             |             | T              |
|                     | Wi-Fi Interface                                  |             |             |             |             |             |             |             |             |             |             |      |             |             |             |                |
|                     | Energy/Consumption Monitaring trouth MEL Cloud   |             |             |             |             |             |             |             |             |             |             |      |             |             |             | т              |
|                     | СОМРО  |             |             |             |             |             |             |             |             |             |             |      |             |             |             | $\vdash$       |
|                     | MXZ Connection                                   | •*2         | •*2         | <b>*</b> 2  | •*2         | •*2         | <b>•</b> *2 | <b>•</b> *2 | <b>*</b> 2  | <b>*</b> 2  | •*2         | •*2  | •*2         | •*2         | <b>*</b> 2  | ┢              |
| Installation        |  | 2           | - 2         | 2           | - 2         | - 2         | - 2         | - 2         | - 2         | 2           |             |      |             |             |             | ╆              |
| Installation        | Cleaning-free Pipe Reuse                         |             |             |             |             |             |             |             |             |             | <b>●</b> *3 | •*3  | ●*3         | ●*3         | <b>•</b> *3 |                |
|                     | Reuse of Existing Wiring                         |             |             |             |             |             |             |             |             |             |             |      |             |             |             | $\vdash$       |
|                     | Wiring/Piping Correction Function                | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •    | •           | •           | •           |                |
|                     | Drain Pump                                       |             |             |             |             |             |             |             |             |             |             |      |             |             |             | $\perp$        |
|                     | Pump Down Switch                                 |             | •           | •           | •           | •           |             | •           |             | •           |             | •    |             | •           | •           |                |
|                     | Flare Connection                                 | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •    | •           | •           | •           | $\perp$        |
| Maintenance         | Self-Diagnosis Function (Check Code Display)     | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •    | •           | •           | •           |                |
|                     | Failure Recall Function                          | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •    | •           | •           | •           | Т              |

<sup>\*1</sup> When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible.
\*2 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on pages 113 for details.
\*3 Please refer to "System Control" on pages for details.

|             |               | MXZ SERIES   |             |             |
|-------------|---------------|--------------|-------------|-------------|
|             | Std           |              | Hyper H     | leating     |
|             | MXZ-VF        |              | MXZ-        |             |
| 4F          | 5F            | 6F           | 2F          | 4F          |
| 71          | •             | 01           |             | -11         |
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| •           | •             | •            | •           | •           |
| •           | •             | •            | •           | •           |
| <b>•</b> *1 | <b>•</b> *1   | <b>•</b> *1  | <b>●</b> *1 | <b>•</b> *1 |
| •           | •             | •            | •           | •           |
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| •           | •             | •            | •           | •           |
|             |               |              |             |             |
|             |               |              |             |             |
|             |               |              |             |             |
| Opt         | Opt           | Opt          | Opt         | Opt         |
| Opt         | Opt           | Opt          | Opt         | Opt         |
| Opt         | Opt           | Opt          | Opt         | Opt         |
| Opt         | Opt           | Opt          | Opt         | Opt         |
| Opt         |               | Opt          |             |             |
| Орг         | Opt           | Opt          | Opt         | Opt         |
|             |               |              |             |             |
|             |               |              |             |             |
|             |               |              |             |             |
|             |               |              |             |             |
| <b>•</b> *2 | <b>•</b> *2   | <b>*</b> 2   | <b>•</b> *2 | <b>•</b> *2 |
| ●*3         | <b>*</b> 3    | ●*3          | <b>*</b> 3  | <b>*</b> 3  |
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|             |               |              |             |             |
| The figures | listed in the | table are "o | nly when co | mhined with |

<sup>The figures listed in the table are "only when combined with an outdoor unit with the appropriate capacity range".
Opt: Separate parts must be purchased.</sup> 

## Major Optional Parts

| Part Name   | Description   | Part Name  | Description  |
|---|---|--|--|
| Deodorising Filter Captures small foul-smelling substances in the air.  | Deodorising liller  | Drain Pump Pumps drain water to a point higher than that where the unit is installed.  | *for ceiling-suspended units   |
| Air-cleaning Filter Removes fine dust particles from the air by means of static electricity.  | Air-cleaning filter   | Decorative Cover  To be attached to the upper section of ceiling- suspended models for professional kitchen use. Helps prevent dust accumulation.  | Decorative cover   |
| Silver-ionized Air Purifier Filter Captures the bacteria, pollen and other allergens in the air and neutralises them.                   | Silver-ionized Air Purifier Filter  | MA & Contact Terminal Interface Interface for connecting with the PAR-40MAA remote controller and PAC-YT52CRA, and to relay operation signals.   | MA & contact terminal interface  |
| Oil Mist Filter Element Filter element (12 pieces) that blocks the oil mist for ceiling-suspended models used in professional kitchens. | Filter frame Filter frame Oil mist filter   | System Control Interface Interface to connect with M-NET controllers.  | System control interface   |
| High-efficiency Filter Element Element for high-efficiency filter. Removes fine dust particles from the air.                            | Plup (for directing airflow)  High-efficiency fifter element  *For 4-way cassette units (PLA) | Wi-Fi Interface Interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.   | WiFi interface Indoor unit Smartphone  |
| 3D i-see Sensor Corner Panel for SLZ Corner panel holding the 3D i-see Sensor.  | I-see Sensor corner panel   | Connector Cable  This product is an adaptor which inputs the incoming signals from an open/close switch to the air conditioner and outputs the on/off signals from the air conditioner to the back-up heater.                        | Switch Indoor unit |
| 3D i-see Sensor Corner Panel for PLA Corner panel holding the 3D i-see Sensor.  | i-see Sensor<br>comer panel   | Power Supply Terminal Kit Terminal bed to change the power supply from outdoor power supply to separate indoor/ outdoor power supplies.  |  |
| Shutter Plate Plate for blocking an air outlet of the 4-way cassette (PLA) indoor unit.   | Shutter Plate   | Wired Remote Controller Advanced deluxe remote controller with full-dot liquid-crystal display and backlight. Equipped with convenient functions like night-setback.   | TOV (6)  |
| Multi-functional Casement Casement for fresh-air intake and attaching the high-efficiency filter element (optional).                    | Indoor unit body Multi-functional casement  | MA Touch Remote Controller Remote controller with the full color touch display. Smartphone/Tublet App is available for setting, customize and control.   |  |
| Fresh-air Intake Duct Flange Flange attachment for adding a duct to take in fresh air from outside.                                     | *For 4-way cassette units (PLA)   | Simple Wired Remote Controller Remote controller with liquid-crystal display, and backlight function for operation in dark location.   |  |
| Space Panel Decorative cover for the installation when the ceiling height is low.   | Space Panel   | Remote Controller Terminal Block Kit for PKA  The terminal block is used as a relay to wire an indoor unit and to two remote controllers or to wire a remote controller and multiple indoor units in order to perform group control. |  |

| Part Name  | Description  |
|--|--|
| Wireless Remote Controller Signal Sender Handheld unit for sending operation signals to the indoor unit.   | Handheld unit  |
| Wireless Remote Controller Signal Receiver Receives operation signals from the wireless remote controller handheld unit.                                       | Signal receiver  |
| Wireless Remote Controller Kit (Sender & Receiver) Remote controller handheld unit (signal sender) and receiver (signal receiver) for ceiling-suspended units. | Signal receiver  |
| Control Holder Holder for storing the remote controller.   | Control holder   |
| Remote Sensor Sensor to detect the room temperature at remote positions.   | Remote sensor  |
| Remote On/Off Adapter Connector for receiving signals from the local system to control the on/off function.  | Remote on/off adapter  |
| Remote Operation Adapter Adapter to display the operation status and control on/off function from a distance.  | Remote operation adapter   |
| Connector Cable for Remote Display Connector used to display the operation status and control on/off function from a distance.                                 | Connector cable for remote display  Brown  Red  Orange  Yellow  Green  |
| <b>Distribution Pipe</b> Branch pipe for P Series simultaneous multisystem use, or to connect two branch boxes for PUMY.                                       | Indoor unit Indoor |
| <b>Joint Pipe</b> Part for connecting refrigerant pipes of different diametres.  | Joint pipe Onsite pipe Indoor unit Outdoor unit Insulator  |
| Liquid Refrigerant Dryer Removes water and minute particles from refrigerant pipes.  |  |
| Branch Box Outer Cover Casement for branch boxes.  | Complete view  Branch box outer cover  |

| Part Name  | Description  |
|--|--|
| Air Discharge Guide Changes the direction of air being exhausted from the outdoor unit.  |  |
| Air Protection Guide Protects the outdoor unit from the wind.  |  |
| <b>Drain Socket</b> A set of caps to cover unnecessary holes at the bottom of the outdoor unit, and a socket to guide drain water to the local drain pipe. | Cap  |
| Centralised Drain Pan Catches drain water generated by the outdoor unit.   | Outdoor unit Centralised drain pan Base (local construction)   |
| M-NET Converter Used to connect P Series A-control models to M-NET controllers.  | Crosp remote controller  Crosp remote Controller  Converter  Conve |
| Control/Service Tool  Monitoring tool to display operation and self-diagnosis data.  | Control/service tool   |
| Step Interface Interface for adjusting the capacity of inverter- equipped outdoor units.   | Case interior  Installed in case   |
| High-static Fan Motor<br>Static pressure enhanced up to +30pa.   |  |

## Optional Parts List <Indoor>

|            | Option                   |                    |                     | Fil                   | ter                | l                    |                      | 0-6:   | System          | MA &                              |                    |                  |                  |               | Wired Rem       | ote Controlle   | er               |                |
|------------|--------------------------|--------------------|---------------------|-----------------------|--------------------|----------------------|----------------------|--|-----------------|-----------------------------------|--------------------|------------------|------------------|---------------|-----------------|-----------------|------------------|----------------|
|            |                          |                    | Silver-<br>Air Puri | ionized<br>fier Filte |                    | Deodo<br>Fil         |                      | Softdry<br>cloth                                 | Control         | Contract<br>Terminal<br>Interface | Wi-Fi<br>Interface |                  | nector<br>ble    |               | Controlle       | r               |                  | troller        |
| ndoor Unit |                          | MAC-<br>2360<br>FT | MAC-<br>2370<br>FT  | MAC-<br>2380<br>FT    | MAC-<br>2390<br>FT | MAC-<br>3000<br>FT-E | MAC-<br>3010<br>FT-E | MAC-<br>1001<br>CL-E                             | MAC-<br>334IF-E | MAC-<br>397IF-E                   | MAC-<br>567IF-E    | MAC-<br>1702RA-E | MAC-<br>1710RA-E | PAR-<br>40MAA | PAR-<br>CT01MAA | PAC-<br>YT52CRA | MAC-<br>1200RC-E | MAC-<br>1300RC |
| Wall -     | MSZ-LN18VG2(W)(V)(R)(B)  |                    |                     |                       | •                  |                      | •                    | •  | •               | •                                 |                    | •                | •                | *1            | *1              | <b>1</b> 1      |                  | <b>•</b> *2    |
| mounted    | MSZ-LN25VG2(W)(V)(R)(B)  |                    |                     |                       | •                  |                      | •                    | •  | •               | •                                 |                    | •                | •                | <b>1</b> 1    | ●*1             | <b>6</b> *1     |                  | 0.5            |
|            | MSZ-LN35VG2(W)(V)(R)(B)  |                    |                     |                       | •                  |                      | •                    | •  | •               | •                                 |                    | •                | •                | <b>1</b> 1    | <b>0</b> *1     | <b>0</b> 11     |                  | 0.5            |
|            | MSZ-LN50VG2(W)(V)(R)(B)  |                    |                     |                       | •                  |                      | •                    | •  | •               | •                                 |                    | •                | •                | ●*1           | ●*1             | ●*1             |                  | 0.5            |
|            | MSZ-LN60VG2(W)(V)(R)(B)  |                    |                     |                       | •                  |                      | •                    | •  | •               | •                                 | <b>6</b> *3        | •                | •                | ●*1<br>●*1    | ●*1<br>●*1      | 0°1             |                  | 0*2            |
|            | MSZ-FT25VG<br>MSZ-FT35VG |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | 9,3                | •                | •                | 011           | *1              | -11             |                  | •              |
|            | MSZ-FT50VG               |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | -3                 | •                | •                | -11           | -11             | 01              |                  | •              |
|            | MSZ-AP15VG               |                    | _                   |                       |                    |                      |                      |  |                 |                                   | -3                 |                  |                  | -11           | *1              | *1              |                  | •              |
|            | MSZ-AP20VG               |                    |                     |                       |                    |                      |                      |  | •               | •                                 | -3                 | •                | •                | -11           | *1              | -11             |                  | •              |
|            | MSZ-AP25VG               |                    | •                   |                       |                    |                      |                      |  |                 | •                                 | •                  | •                | •                | -11           | -11             | <b>0</b> "1     |                  | •              |
|            | MSZ-AP35VG               |                    |                     |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | 11            | *1              | 0"1             |                  | •              |
|            | MSZ-AP42VG               |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | <b>1</b> 1    | *1              | *1              |                  |                |
|            | MSZ-AP50VG               |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | <b>1</b> 1    | <b>0</b> "1     | <b>0</b> "1     |                  |                |
|            | MSZ-AP60VG               |                    |                     |                       |                    |                      |                      |  | •               | •                                 |                    | •                | •                | <b>1</b> 1    | <b>•</b> *1     | <b>1</b> 1      |                  | •              |
|            | MSZ-AP71VG               | •                  |                     |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | <b>●</b> *1   | *1              | <b>6</b> *1     |                  | •              |
|            | MSZ-EF18VG(W)(B)(S)      |                    | •                   |                       |                    |                      |                      | •  | •               | •                                 | ●*3                | •                | •                | <b>●</b> *1   | ●*1             | <b>1</b> 1      |                  | •              |
|            | MSZ-EF22VG(W)(B)(S)      |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | ●,3                | •                |                  | <b>1</b> 1    | <b>•</b> *1     | <b>1</b> 1      |                  | •              |
|            | MSZ-EF25VG(W)(B)(S)      |                    | •                   |                       |                    |                      |                      | •  | •               | •                                 | ●*3                | •                | •                | <b>●</b> *1   | <b>1</b>        | <b>6</b> *1     |                  | •              |
|            | MSZ-EF35VG(W)(B)(S)      |                    | •                   |                       |                    |                      |                      | •  | •               | •                                 | ●*3                | •                | •                | <b>●</b> *1   | <b>1</b>        | <b>6</b> *1     |                  | •              |
|            | MSZ-EF42VG(W)(B)(S)      |                    |                     |                       |                    |                      |                      |  |                 |                                   | 6.3                |                  |                  | <b>0</b> *1   | <b>●</b> *1     | <b>0</b> *1     |                  | •              |
|            | MSZ-EF50VG(W)(B)(S)      |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | ●,3                | •                | •                | <b>●</b> *1   | ●*1             | ●"1             |                  |                |
|            | MSZ-BT20VG               |                    |                     |                       |                    |                      |                      |  | •               |                                   | <b>●</b> *3        | •                |                  | <b>1</b> 1    | <b>1</b> 1      | <b>1</b> 1      |                  |                |
|            | MSZ-BT25VG               |                    | •                   |                       |                    |                      |                      |  |                 |                                   | <b>●</b> *3        | •                |                  | <b>11</b>     | <b>•</b> *1     | <b>11</b>       |                  |                |
|            | MSZ-BT35VG               |                    |                     |                       |                    |                      |                      |  | •               | •                                 | ●*3                | •                | •                | ●*1           | <b>1</b> 1      | <b>1</b> 1      |                  |                |
|            | MSZ-BT50VG               |                    |                     |                       |                    |                      |                      |  | •               | •                                 | *3                 | •                | •                | <b>1</b> 1    | *1              | <b>1</b> 1      |                  |                |
|            | MSZ-HR25VF<br>MSZ-HR35VF |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | •             | •               | •               | •                |                |
|            | MSZ-HR42VF               |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | •             | •               | •               | •                | _              |
|            | MSZ-HR50VF               |                    | •                   |                       |                    |                      |                      |  |                 | •                                 |                    |                  |                  |               |                 |                 |                  |                |
|            | MSZ-HR60VF               |                    | •                   |                       |                    |                      |                      |  | •               | •                                 |                    | •                |                  | 11            | *1              | 911             |                  | _              |
|            | MSZ-HR71VF               |                    | •                   |                       |                    |                      |                      |  |                 |                                   |                    | •                | •                | -11           | -11             | 01              |                  | _              |
|            | MSY-TP35VF               |                    |                     |                       |                    |                      |                      |  | •               | •                                 | •                  | •                |                  | •             | •               |                 |                  |                |
|            | MSY-TP50VF               |                    |                     |                       |                    |                      |                      |  |                 |                                   | •                  |                  | •                |               |                 |                 |                  |                |
|            | MSZ-FH25VE2              |                    |                     | •                     |                    | •                    |                      |  | •               | •                                 | •                  | •                | •                | <b>0</b> "1   | <b>1</b> 1      | <b>0</b> 11     |                  |                |
|            | MSZ-FH35VE2              |                    |                     |                       |                    |                      |                      |  |                 |                                   |                    |                  |                  | <b>0</b> *1   | <b>6</b> *1     | <b>0</b> *1     |                  |                |
|            | MSZ-FH50VE2              |                    |                     | •                     |                    | •                    |                      |  | •               | •                                 | •                  | •                | •                | <b>0</b> °1   | <b>●</b> *1     | <b>●</b> *1     |                  |                |
|            | MSZ-SF15VA               |                    |                     |                       |                    |                      |                      |  | •               | •                                 | •                  |                  |                  | <b>1</b> 1    | <b>●</b> *1     | <b>1</b> 1      |                  |                |
|            | MSZ-SF20VA               |                    |                     |                       |                    |                      |                      |  |                 |                                   |                    |                  |                  | <b>-1</b>     | <b>●</b> *1     | <b>0</b> *1     |                  | •              |
|            | MSZ-SF25VE3              |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  |                  |                  | <b>1</b> 1    | <b>•</b> "1     | <b>0</b> 11     |                  |                |
|            | MSZ-SF35VE3              |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  |                  |                  | <b>1</b> 1    | <b>1</b> 1      | <b>1</b> 1      |                  | •              |
|            | MSZ-SF42VE3              |                    |                     |                       |                    |                      |                      |  | •               | •                                 |                    |                  |                  | <b>1</b> 1    | <b>•</b> *1     | <b>1</b>        |                  |                |
|            | MSZ-SF50VE3              |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  |                  |                  | <b>●</b> 11   | <b>1</b> 1      | <b>1</b> 1      |                  | •              |
|            | MSZ-GF60VE2              |                    |                     |                       |                    |                      |                      |  | •               | •                                 | •                  |                  |                  | ●*1           | *1              | <b>1</b> 1      |                  | •              |
|            | MSZ-GF71VE2              | •                  |                     |                       |                    |                      |                      |  | •               | •                                 | •                  |                  |                  | <b>11</b>     | *1              | <b>1</b> 1      |                  |                |
|            | MSZ-WN25VA               | -                  | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | •             | •               | •               |                  |                |
|            | MSZ-WN35VA               |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | •             | 0 11            | 0 11            | -                | •              |
|            | MSZ-DM25VA               |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | @*1<br>@*1    | <b>0</b> *1     | *1<br>*1        | •                |                |
|            | MSZ-DM35VA<br>MSZ-HJ25VA | <u> </u>           | •                   |                       |                    |                      |                      | -  | -               | -                                 | •                  | •                | •                | <u> </u>      | 9.              | <u> </u>        | •                | <del></del>    |
|            | MSZ-HJ35VA               |                    |                     |                       |                    |                      |                      |  |                 |                                   |                    |                  |                  |               |                 |                 | •                |                |
|            | MSZ-HJ50VA               |                    | •                   |                       |                    |                      |                      |  |                 |                                   |                    | •                | •                |               |                 |                 | •                |                |
|            | MSZ-HJ60VA               |                    | •                   |                       |                    |                      |                      | <del>                                     </del> |                 |                                   |                    | •                |                  |               |                 |                 |                  | $\vdash$       |
|            | MSZ-HJ71VA               |                    | •                   |                       |                    |                      |                      |  |                 |                                   |                    | •                |                  |               |                 |                 |                  |                |
| Floor-     | MFZ-KJ25VE2              |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | <b>1</b> 1    | <b>•</b> *1     | <b>0</b> *1     |                  | •              |
| standing   | MFZ-KJ35VE2              |                    |                     |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | <b>1</b> 1    | <b>1</b>        | <b>0</b> *1     |                  | 0              |
|            | MFZ-KJ50VE2              |                    | •                   |                       |                    |                      |                      |  | •               |                                   |                    |                  |                  | <b>1</b> 1    | <b>•</b> *1     | <b>0</b> *1     |                  | •              |
|            | MFZ-KT25VG               |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | <b>1</b> 1    | <b>1</b>        | <b>1</b> 1      |                  | •              |
|            | MFZ-KT35VG               |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | <b>1</b> 1    | <b>1</b>        | <b>1</b> 1      |                  | •              |
|            | MFZ-KT50VG               |                    |                     |                       |                    |                      |                      |  | •               | •                                 |                    | •                |                  | <b>1</b> 1    | <b>•</b> *1     | <b>1</b>        |                  | •              |
|            | MFZ-KT60VG               |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | <b>1</b> 1    | <b>•</b> "1     | <b>●</b> *1     |                  | •              |
| 1-way      | MLZ-KP25VF               |                    | •                   |                       |                    |                      |                      |  | •               | •                                 | •                  | •                | •                | <b>1</b> 1    | <b>•</b> *1     | <b>●</b> *1     |                  |                |
| cassette   | MLZ-KP35VF               |                    |                     |                       |                    |                      |                      |  | •               |                                   |                    | •                |                  | <b>1</b> 1    | <b>-1</b>       | <b>•</b> *1     |                  | •              |
|            | MLZ-KP50VF               | 1                  | •                   | I                     | 1                  |                      | 1                    | 1  | •               | •                                 | •                  | •                | •                | <b>0</b> 11   | <b>●</b> *1     | <b>●</b> *1     |                  | (              |

<sup>\*1</sup> MAC-394IF-E or MAC-397IF-E is required. When using MAC-397IF-E with PAR-40MAA, brightness needs to be set as low.
\*2 Available only for LN18/25/35/50/60VG2W.
\*3 Outside attachment only.

## Optional Parts List <Indoor>

|                        | Option                  |                               |  | _                    |  |  | Filter   | _             |              |  |  |          |  | i-see                  | 0,               | _ Multi-      | Fre                  | sh-air         |                      |          |              |              |              |   |                      |          |
|------------------------|-------------------------|-------------------------------|--|----------------------|--|--|--|---------------|--------------|--|--|----------|--|------------------------|------------------|---------------|----------------------|----------------|----------------------|----------|--------------|--------------|--------------|---|----------------------|----------|
|                        |                         | Oil Mist<br>Filter<br>Element | Life   | F                    | High-eft<br>Filter E                             | fficiency<br>Element                             | t l  |               | ı            | Filter Bo                              | OX                                     |          | Cor  | ensor<br>orner<br>anel | Shutter<br>Plate | functional    | Intake               | e Duct<br>ange | Space<br>Panel       |          |              | Dra          | ain Pur      | mp  |                      |          |
| ndoor Unit             |                         | PAC-<br>SG38<br>KF-E          |  | PAC-<br>SH59<br>KF-E | SH88   | SH89   | PAC-<br>SH90<br>KF-E                             | KE92          | KE93         | KE94                                   | KE95                                   | KE250    | PAC-<br>SF1<br>ME-E                              | SE1                    | SJ37             | SJ41          | PAC-<br>SH65<br>OF-E | SF28           | PAC-<br>SJ65<br>AS-E | SH94     | 1 SK01       | SJ92         | SJ93         | PAC-<br>SJ94<br>DM-E  | PAC-<br>KE07<br>DM-E | KE06     |
| 4-way                  | SLZ-M15FA               |                               |  |                      |  |  |  |               |              |  |  |          | •  |                        |                  |               |                      |                |                      |          |              |              |              |   |                      |          |
| cassette               | SLZ-M25FA               |                               |  | Γ ,                  |  |  | '  |               |              |  |  |          | •  |                        |                  |               |                      |                |                      |          |              |              |              |   | 匚                    |          |
|                        | SLZ-M35FA               |                               |  |                      |  |  |  |               |              |  |  |          |  |                        |                  |               |                      |                |                      |          |              |              |              |   |                      |          |
|                        | SLZ-M50FA               | '                             |  | ſ.,                  |  |  | <u> </u>   | Ē.            |              | '                                      | ഥ'                                     |          | •  |                        |                  |               |                      |                |                      |          |              |              |              |   | 匚                    |          |
|                        | SLZ-M60FA               | '                             |  | Ι.,                  |  |  | 'سلّــــــــــــــــــــــــــــــــــــ         | Ĺ.,           | <u></u>      | <u> </u>                               | 'ـــــــــــــــــــــــــــــــــــــ |          |  | <u></u>                |                  | '             | '                    |                |                      | $\perp$  | $\perp$      | $\perp$      | $oxed{oxed}$ |   | Ī.                   | L        |
| Ceiling -              | SEZ-M25DA(L)            |                               |  |                      |  |  |  |               |              |  |  |          |  |                        |                  |               |                      |                |                      |          |              |              |              |   |                      |          |
| conceald               | SEZ-M35DA(L)            | <u> </u>                      |  | Γ.                   |  | <u> </u>   | 'ـــــــــــــــــــــــــــــــــــــ           | Ĺ.,           | <u></u>      | <u> </u>                               | 'ـــــــــــــــــــــــــــــــــــــ |          | L'   | Ĺ.                     |                  | Г'            | Γ_'                  | Ī              |                      | $\perp$  | $\perp$      | $\perp$      | $\Box$       | <u>[</u>  |                      |          |
|                        | SEZ-M50DA(L)            | '                             |  |                      |  |  | 'ــــــــــــــــــــــــــــــــــــ            | Ĺ.            |              | '                                      | <u> </u>                               |          | '  |                        |                  |               |                      |                |                      |          | $\perp$      | $\Box$       |              | '   |                      |          |
|                        | SEZ-M60DA(L)            |                               |  |                      |  |  |  |               |              |  |  |          |  |                        |                  |               |                      |                |                      |          |              |              |              |   |                      |          |
|                        | SEZ-M71DA(L)            | '                             |  | Γ.                   |  |  | 'ست  | Ĺ.,           | Ĺ            | <u> </u>                               | 'ـــــــــــــــــــــــــــــــــــــ |          | L'   | Ĺ                      |                  | '             | '                    |                |                      | $\perp$  | $\perp$      | $\perp$      | $oxed{oxed}$ | اللل  |                      | L        |
| 4-way                  | PLA-ZM35EA              | '                             |  | •                    |  | '  | <u>"</u>   | Ι             |              | <u> </u>                               | <u> </u>                               |          | L'   | •                      | •                | •             | •                    |                | •                    |          |              | $\perp$      | $\Box$       | '   | Ī.                   |          |
| Cassette               | PLA-ZM50EA              | '                             |  |                      |  |  | <u> </u>   | Ĺ'            | <u></u>      | <u> </u>                               | <u> </u>                               |          | <u> </u>   | •                      |                  | •             | •                    | Ĺ'             |                      |          |              | <u> </u>     |              |   | Ĺ                    |          |
|                        | PLA-ZM60EA              |                               |  | •                    |  |  |  |               |              |  |  |          |  | •                      | •                | •             | •                    |                | •                    |          |              |              |              |   |                      |          |
|                        | PLA-ZM71EA              | <u> </u>                      | <u> </u>   |                      |  | Щ'   | <u> </u>   | Щ.            |              | 'ـــــــــــــــــــــــــــــــــــــ | Щ'                                     | Ц_       | <u> </u>   |                        | •                | •             | •                    | 1              | •                    |          | $\perp$      |              |              | $\perp$   | Щ.                   | <u> </u> |
|                        | PLA-ZM100EA             | <u> </u>                      | <u> </u>   |                      | <u> </u>   | Щ'   | <u> </u>   | <u> </u>      |              | Щ'                                     | <b>└</b>                               |          | <u> </u>   |                        | •                | •             | •                    | <del></del>    | •                    |          |              |              |              | ╙   |                      | <u> </u> |
|                        | PLA-ZM125EA             | 4                             |  | •                    |  |  |  |               |              |  |  |          |  | •                      | •                | •             | •                    | 4              | •                    |          |              |              |              |   |                      |          |
|                        | PLA-ZM140EA             | <u> </u>                      | <del>                                     </del> | •                    | <u> </u>   | ↓'   | 'ـــــــــــــــــــــــــــــــــــــ           | <b></b> '     |              | <u> </u> '                             | <b>↓</b> '                             | ↓        | ↓'   | •                      |                  | •             | •                    | 1              |                      |          | <b>↓</b>     | $\perp$      | <b>↓</b>     | $\perp$   | Ь—                   | <b>↓</b> |
|                        | PLA-M35EA               | <u> </u>                      | <del></del>                                      | •                    |  | <u> </u>   | <u> </u>   | <u> </u>      |              | <b>└</b>                               | <u> </u>                               |          | <u> </u>   | •                      | 0                | •             | •                    | <del></del>    |                      |          |              |              | $\perp$      | $\perp$   | _                    |          |
|                        | PLA-M50EA               | 4                             |  | •                    |  |  | 4  | 4             |              |  |  |          |  | •                      | •                | •             | •                    |                | •                    |          |              |              |              |   |                      |          |
|                        | PLA-M60EA               | <u> </u>                      | <u> </u>   |                      |  | Щ'   | <u>'</u> ــــــــــــــــــــــــــــــــــــ    | Щ.            |              | <u> </u>                               | Щ'                                     | Ц_       | <u> </u>   |                        | •                | •             | •                    | 1              | •                    |          | $\perp$      |              | <b>⊥</b>     | $\perp$   | Щ.                   | <b>⊥</b> |
|                        | PLA-M71EA               | '                             |  |                      | <u> </u>   |  | 'ــــــــــــــــــــــــــــــــــ              | Ĺ'            | <u></u>      | <u> </u>                               | 'ــــــــــــــــــــــــــــــــــ    |          | <u> </u>   | •                      |                  | •             | •                    | Ĺ'             |                      |          |              | <u> </u>     | <u> </u>     |   | Ĺ                    |          |
|                        | PLA-M100EA              |                               |  | •                    |  |  |  |               |              |  |  |          |  | •                      | •                | •             | •                    |                | •                    |          |              |              |              |   |                      |          |
|                        | PLA-M125EA              | <u> </u>                      | <u> </u>   | •                    | <u> </u>   | ↓'   | 'ـــــــــــــــــــــــــــــــــــــ           | <b></b> '     |              | <u> </u>                               | <b>↓</b> '                             | <u> </u> | ↓'   | •                      |                  | •             | •                    | 1              | •                    |          |              | $\perp$      |              | $\perp$   | Ь_                   | ــــــ   |
|                        | PLA-M140EA              | <u> </u>                      | <del></del>                                      | •                    |  | <u> </u>   | <u> </u>   | Щ'            |              | <b>└</b>                               | <u> </u>                               |          | <u> </u>   | •                      | •                | •             | •                    | <del></del>    | •                    |          |              | Щ.           | Щ.           | $\perp$   | Щ.                   | _        |
| Ceiling -              | PEAD-M35JA(L)           | 4                             |  |                      |  |  |  | •             |              |  |  |          |  |                        |                  |               |                      |                |                      |          |              |              |              |   |                      |          |
| conceald               | PEAD-M50JA(L)           | <u> </u>                      | <del> </del>                                     | <u> </u>             | <u> </u>   | Щ'   | <u>'</u>   | •             | 1            | <u> </u>                               | <b>↓</b> '                             | <u> </u> | ļ'   |                        | <u> </u> '       | <b></b> '     | <del></del> '        | 1              |                      |          | ₩.           | ↓            | ↓            | $\perp$   | ₩.                   | ـــــ    |
|                        | PEAD-M60JA(L)           | <u> </u>                      | <del></del> '                                    | <u> </u>             | <u> </u>   | L'   | <b></b> '  | Щ.            | 0            | <u> </u>                               | <u></u> '                              | Щ        | <u> </u>   |                        | <u> </u>         | <u> </u>      | <u> </u>             | 1              |                      |          | _            | ـــــ        | ـــــ        | ₩.  | Щ.                   | _        |
|                        | PEAD-M71JA(L)           | 4                             |  |                      |  |  | 4  | 4             | •            |  | 4                                      |          |  |                        |                  |               |                      | 4              |                      |          |              |              |              |   |                      |          |
|                        | PEAD-M100JA(L)          | <u> </u>                      | <u> </u>   | <del></del> '        | <del> </del>                                     | ↓'   | ₩'   | <del></del>   | 4            | •                                      | <b>↓</b> —'                            | ↓        | <u> </u>   | 4                      | <u> </u>         | <u> </u>      | <u> </u>             | <del></del>    | <del></del>          | —        |              | ↓            | ↓            | Щ'  | —                    |          |
|                        | PEAD-M125JA(L)          | <u> </u>                      | <u> </u>   | <del></del> '        | <u> </u>   | Щ'   | <b>↓</b> '                                       | <u> </u>      | 4            | •                                      | <b>└</b>                               | <b>↓</b> | <u> </u>   | 1                      | <u> </u>         | <u> </u>      | <u> </u>             | <del></del>    | <b>↓</b>             |          | <del></del>  | <del>↓</del> | ₩            | <b>└</b>  | Ь                    | _        |
|                        | PEAD-M140JA(L)          | 4                             |  | 4                    |  |  | 4—"  | 4             | 4            | 4                                      | •                                      |          |  | 4                      | 4                | 4             | 4                    | 4              |                      | 4        |              |              |              |   | -                    |          |
|                        | PEA-M200LA              | <u> </u>                      | •  | <del></del> '        | <u> </u>   | ↓'   | <b>↓</b> '                                       | <del>_</del>  | —            | <b>↓</b> ′                             | <b>—</b> '                             | •        | <u> </u>   | 1                      | <u> </u>         | <u> </u>      | <u> </u>             | 1              | ↓                    | ₩        | <del> </del> | ↓            | ₩            | Щ'  | ₩                    |          |
|                        | PEA-M250LA              | <u></u> '                     | •  | <del></del> '        | <u> </u>   | <u> </u>   | ——'  | <del></del>   |              | <u></u> '                              | —'                                     | •        | <u> </u>   |                        | <u></u> '        | <u> </u>      | <u></u>              |                |                      |          |              | —            | <b>—</b>     | <u> </u>  | _                    | •        |
| Wall -                 | PKA-M35LA(L)            | 4                             | 4  | 4——"                 | 4  | 4  | 4  | 4—/           | 4—           | 4——'                                   | 4                                      | _        | 4  | 4                      | 4—"              | 4'            | 4                    | 4—/            | 4/                   | 4/       | •            | 4            | _            | $\perp$   | $\leftarrow$         | _        |
| mounted                | PKA-M50LA(L)            | <del></del> '                 | <del></del>                                      | <b>↓</b> —'          | <b></b> '  | <u> </u>   | <b>↓</b> —_′                                     | <del></del> ' | +            | <b></b> '                              | +—'                                    | —        | <b></b> '  | +                      | <u>+</u> '       | <b>↓</b> —_'  | <del></del> '        | <del></del>    | <del></del>          | +        | •            | ₩.           | ₩            | ₩'  | ₩                    | ₩        |
|                        | PKA-M60KA(L)            | <del></del> '                 | <u> </u>   | <del></del> '        | <del></del>                                      | <u> </u>   | <b>─</b>   | <del></del> ' | $\leftarrow$ | <u></u> '                              | —'                                     | —        | <u></u> '  | +-                     | <u></u> '        | <del></del> ' | <u></u> '            | <del></del>    | ₩.                   | •        | ₩            | ₩.           | ₩            | $\perp \!\!\! \perp \!\!\! \perp \!\!\! \perp \!\!\! \perp$ | ₩                    | _        |
|                        | PKA-M71KA(L)            | 4—'                           | 4—   | 4—'                  | 4—   | <b></b> '  | <b></b> '  | +'            | 4—           | <del></del> '                          | ←–′                                    | -        | +  | 4—                     | 4—'              | <del></del> ' |                      | +              | 4                    | •        | 4            | 4            | -            | $\vdash$  | $\vdash$             | ₩        |
| 0 111                  | PKA-M100KA(L)           | <del></del> '                 | <del></del>                                      | +'                   | -  | <b>↓</b> —'                                      | +—′  | ₩.            | +            | ₩'                                     | +—'                                    | ₩        | <u></u> '  | +                      | <del></del> '    | <del></del> ' | <del></del> '        | +              | +                    | •        | +-           | _            | ₩            | ₩   | —                    | ₩        |
| Ceiling -<br>suspended | PCA-M35KA               | <u>+</u> '                    | <u> </u>   | ₩'                   | 0  | <u></u> '  | <b>↓</b> —′                                      | ₩.            | ₩            | —'                                     | —'                                     | ₩        | <u></u> '  | $\leftarrow$           | <u></u> '        | <u> </u>      | <u></u> '            | <del></del>    |                      | —        | $\perp$      |              | _            | $\perp \!\!\! \perp \!\!\! \perp \!\!\! \perp \!\!\! \perp$ | _                    | _        |
| suspended              | 1 O/ CINICOTO C         | 4—"                           | 4—   | +-                   | •  |  | ₩'   | <del></del> ' | +            | +'                                     | ← '                                    | _        | -  | $\leftarrow$           | 4-               | +'            | +                    | -              | 4                    | 4-       | +-           | •            | -            |   | $\leftarrow$         | +-       |
|                        | PCA-M60KA               | <del></del> '                 | <del></del>                                      | +'                   | <del></del>                                      | •  | +'   | +             | +            | <del></del> '                          | +'                                     | ₩        | <u>+</u> '                                       | +                      | +'               | <del></del> ' | <del></del> '        | +              | +                    | +        | +            | ₩            | -            | •   | ₩                    | +-       |
|                        | PCA-M71KA               | <del></del> '                 | <u> </u>   | <del>-</del>         | -  | •  | <del>                                     </del> | <del>-</del>  | +-           | <b></b> '                              | <u>+</u> '                             | _        | <u> </u>   | +-                     | <u>+</u> '       | <del></del> ' | <del>-</del>         | _              | _                    | _        | +            | ₩            | 0            | $\vdash$  | ₩                    | _        |
|                        | PCA-M100KA              | 4-                            | +  |                      | -  |  | •  | <del></del>   |              | +                                      |  | _        | +  | $\leftarrow$           | +                | -             | -                    | $\leftarrow$   | 4                    | 4        | +            | 4            | •            |   | -                    |          |
|                        | PCA-M125KA              | +'                            | +  | +'                   | +  | <del>                                     </del> | •  | <u> </u>      | $\leftarrow$ | +'                                     | <u>—</u>                               | +        | +'   | $\leftarrow$           | +'               | +'            | +'                   | t              | +                    | +-       | +-           | +-           | •            | $\vdash$  | <del></del>          | +        |
|                        | PCA-M140KA<br>PCA-M71HA |                               | <del></del>                                      | <b>—</b>             | <u> </u>   | <u> </u>   | •  | <u> </u>      | $\vdash$     | <del>-</del>                           |  | _        | <del></del>                                      | _                      | <b>—</b>         | <b>—</b>      | <del>-</del>         |                | +-                   | $\vdash$ | +            | +            | •            | $\vdash$  | _                    |          |
| Floor -                | PCA-M/1HA<br>PSA-RP71KA | -                             | +  | +                    | _  |  | <del></del> '                                    | <del></del>   | $\leftarrow$ | +'                                     |  | $\vdash$ | +  | $\leftarrow$           | +'               | +             | +'                   | •              | 4                    | +-       | +-           | 4—           | $\leftarrow$ | $\vdash$  |                      | $\vdash$ |
| standing               |                         | +'                            | +  | +'                   | <del>                                     </del> | <del>                                     </del> | <u>+</u> '                                       | <del></del>   | +            | +'                                     | <u> </u>                               | +        | +'   | +                      | +'               | +'            | <del></del>          | <del></del>    | +                    | +        | +-           | +            | +            | $\vdash$  | <del></del>          | +        |
| Stariumy               | PSA-RP100KA             | <del></del> '                 | <del></del>                                      | <del>-</del>         | <u> </u>   | <u> </u>   | <u> </u>   | <del>—</del>  | _            | <del>-</del>                           |  | _        | <del>                                     </del> | _                      | <b>—</b>         | <del></del> ' | <del>-</del>         | <del></del>    | +-                   | $\vdash$ | +            | +            | $\vdash$     | $\vdash$  | $\vdash$             | $\vdash$ |
|                        | PSA-RP125KA             | 4—"                           | +  | -                    | -  | -  | +'   | -             | 1            | +                                      | -                                      |          | 1  | 1                      | 4                |               | +                    | $\leftarrow$   | 4                    | 4—       | 4            | 4            | _            | $\vdash$  | $\vdash$             | +-       |
|                        | PSA-RP140KA             | 1 '                           | 1 '  | 1 '                  | 1 '  | 1 '  | 1 '  | 1 '           | 1            | 1 '                                    | 1 '                                    | 1        | 1  | 1                      | 1 '              | 1 '           | 1 '                  | 1              | 1                    | 1        |              |              | 1            | 1 '   | 1                    | _        |

<sup>\*1</sup> P Series indoor units can be used in combination with SUZ or MXZ outdoor units.
\*2 Unable to use with wireless remote controller.
\*3 PAC-SH29TC-E is required for wireless model.
\*4 Group control cannot be used.

|   |                      |                      |                                | MA &                             |                    |                      |                      |                      |                      |                      | Wir           | ed Remo         | ote Conti       | roller                           |                     | Wirele               | ess Re              | mote C            | ontrolle            |   |                      | <u> </u>                    |                                | Connector                      |
|---|----------------------|----------------------|--------------------------------|----------------------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------|-----------------|-----------------|----------------------------------|---------------------|----------------------|---------------------|-------------------|---------------------|---|----------------------|-----------------------------|--------------------------------|--------------------------------|
|   | Deco                 |                      | System<br>Control<br>Interface | Contact<br>Terminal<br>Interface | Wi-Fi<br>Interface |                      |                      | ver Su<br>rminal     |                      |                      |               | Controlle       | er              | Terminal<br>Block kit<br>for PKA | Sig<br>Ser          | ınal<br>nder         | F                   | Signal<br>Receive | r                   | Controller<br>Kit<br>(Sender &<br>Receiver) | Remote<br>Sensor     | Remote<br>On/Off<br>Adapter | Remote<br>Operation<br>Adapter | Cable for<br>Remote<br>Display |
|   | PAC-<br>SF81<br>KC-E | PAC-<br>SF82<br>KC-E | MAC-<br>334IF-E                | MAC-<br>397IF-E                  | MAC-<br>567IF-E    | PAC-<br>SK38<br>HR-E | PAC-<br>SG94<br>HR-E | PAC-<br>SG96<br>HR-E | PAC-<br>SG97<br>HR-E | PAC-<br>SJ39<br>HR-E | PAR-<br>40MAA | PAR-<br>CT01MAA | PAC-<br>YT52CRA | PAC-<br>SH29TC-E                 | PAR-<br>SL97<br>A-E | PAR-<br>SL100<br>A-E | PAR-<br>SA9C<br>A-E | PAR-<br>SF9<br>FA | PAR-<br>SE9<br>FA-E | PAR-<br>SL94<br>B-E                         | PAC-<br>SE41<br>TS-E | PAC-<br>SE55<br>RA-E        | PAC-<br>SF40<br>RM-E           | PAC-<br>SA88<br>HA-E           |
|   |                      |                      | •                              | •                                | •                  |                      |                      |                      |                      |                      | •             | •               | •               |                                  | •                   | ●*4                  |                     | •                 |                     |   | •                    | •                           | <b>●</b> *2                    | •                              |
|   |                      |                      | •                              | •                                | •                  |                      |                      |                      |                      |                      | •             | •               | •               |                                  | •                   | ●*4<br>●*4           |                     | •                 |                     |   | •                    | •                           | *2<br>*2                       | •                              |
|   |                      |                      | •                              | •                                | •                  |                      |                      |                      |                      |                      | •             | •               | •               |                                  | •                   | 0*4                  |                     | •                 |                     |   | •                    | •                           | • 2                            | •                              |
|   |                      |                      | -                              | •                                |                    |                      |                      |                      |                      |                      | •             | •               | •               |                                  | •                   | 0*4                  |                     | •                 |                     |   | •                    | •                           | • *2                           |                                |
|   |                      |                      | •                              | •                                | •                  |                      |                      |                      |                      |                      | DA            | DA              | DA              |                                  | •                   |                      | •                   |                   |                     |   | •                    | •                           | •*2                            | •                              |
|   |                      |                      | •                              | •                                |                    |                      |                      |                      |                      |                      | DA            | DA              | DA              |                                  | •                   |                      | •                   |                   |                     |   | •                    | •                           | <b>•</b> *2                    | •                              |
|   |                      |                      | •                              | •                                | •                  |                      |                      |                      |                      |                      | DA            | DA              | DA              |                                  |                     |                      |                     |                   |                     |   |                      | •                           | •*2                            | •                              |
|   |                      |                      |                                | •                                |                    |                      |                      |                      |                      |                      | DA            | DA              | DA              |                                  | •                   |                      | •                   |                   |                     |   | •                    | •                           | •*2                            | •                              |
|   |                      |                      | *1                             | • 1<br>• 1                       | •                  |                      |                      |                      |                      | •                    | DA            | DA              | DA              |                                  | •                   | <b>●</b> *4          | •                   |                   | •                   |   | •                    | •                           | *2<br>*2                       | •                              |
|   |                      |                      | 91                             | 011                              |                    |                      |                      |                      |                      | •                    | •             |                 | •               |                                  | •                   | <b>0</b> *4          |                     |                   |                     |   | •                    | •                           | 0.5                            |                                |
|   |                      |                      | -11                            | •1                               | •                  |                      |                      |                      |                      | •                    | •             |                 | •               |                                  | •                   | • 4                  |                     |                   | •                   |   | •                    | •                           | • 2                            |                                |
|   |                      |                      | <b>1</b> 1                     | •1                               | •                  |                      |                      |                      |                      | •                    | •             | •               | •               |                                  | •                   | <b>●</b> *4          |                     |                   | •                   |   |                      | •                           | <b>*</b> 2                     | •                              |
|   |                      |                      | <b>●</b> *1                    | <b>•</b> "1                      | •                  |                      |                      |                      |                      | •                    | •             | •               | •               |                                  | •                   | ●*4                  |                     |                   | •                   |   |                      | •                           | <b>•*2</b>                     | •                              |
|   |                      |                      | <b>1</b>                       | <b>•</b> "1                      |                    |                      |                      |                      |                      |                      | •             |                 | •               |                                  | •                   | ●*4                  |                     |                   |                     |   |                      | •                           | <b>*</b> 2                     |                                |
|   |                      |                      | ●"1<br>●"1                     | 011                              | •                  |                      |                      |                      |                      | •                    |               | •               | •               |                                  | •                   | <b>●</b> *4          |                     |                   | •                   |   | •                    |                             | <b>●</b> *2                    | •                              |
|   |                      |                      | 0°1                            | *1<br>*1                         | •                  |                      |                      |                      |                      | •                    | •             | •               | •               |                                  | •                   | ●*4<br>●*4           |                     |                   | •                   |   | •                    | •                           | *2<br>*2                       | •                              |
|   |                      |                      | 11                             | 911                              | •                  |                      |                      |                      |                      | •                    | •             | •               | •               |                                  | •                   | 0*4                  |                     |                   | •                   |   | •                    | •                           | • 2                            | •                              |
|   |                      |                      | -11                            | 011                              | •                  |                      |                      |                      |                      | •                    | •             | •               | •               |                                  | •                   | <b>6</b> *4          |                     |                   | •                   |   | •                    | •                           | • 2                            |                                |
|   |                      |                      | <b>1</b>                       | 011                              | •                  |                      |                      |                      |                      | •                    | •             | •               | •               |                                  | •                   | <b>6</b> *4          |                     |                   | •                   |   |                      | •                           | •*2                            | •                              |
|   |                      |                      | •                              | •                                |                    |                      |                      |                      |                      | •                    | •             | •               | •               |                                  | •                   | ●*4                  |                     |                   | •                   |   |                      |                             | <b>•</b> *2                    | •                              |
|   |                      |                      | •                              | •                                |                    |                      |                      |                      |                      | •                    | •             | •               | •               |                                  | •                   | ●*4                  |                     |                   |                     |   | •                    |                             | <b>•</b> *2                    |                                |
|   |                      |                      | <b>1</b> 1                     | <b>0</b> *1                      | •                  |                      |                      |                      | •                    |                      | •             | •               | •               |                                  | •                   |                      | •                   |                   |                     |   | •                    | •                           | <b>*</b> 2                     | •                              |
|   |                      |                      | ●*1<br>●*1                     | ●*1<br>●*1                       | •                  |                      |                      |                      | •                    |                      | •             | •               | •               |                                  | •                   |                      | •                   |                   |                     |   | •                    | •                           | *2<br>*2                       | •                              |
|   |                      |                      | -11                            | 011                              |                    |                      |                      |                      | •                    |                      | •             |                 | •               |                                  | •                   |                      |                     |                   |                     |   |                      |                             | • 2                            |                                |
|   |                      |                      | -1                             | -11                              | •                  |                      |                      |                      | •                    |                      | •             | •               | •               |                                  | •                   |                      | •                   |                   |                     |   | •                    | •                           | •*2                            |                                |
|   |                      |                      | <b>1</b> 1                     | <b>0</b> *1                      | •                  |                      |                      |                      | •                    |                      | •             | •               | •               |                                  | •                   |                      | •                   |                   |                     |   | •                    | •                           | • *2                           | •                              |
|   |                      |                      | <b>●</b> *1                    | <b>•</b> *1                      |                    |                      |                      |                      |                      |                      |               |                 |                 |                                  |                     |                      |                     |                   |                     |   |                      |                             | <b>•</b> *2                    |                                |
|   |                      |                      | <b>●</b> *1                    | <b>1</b> 1                       | •                  |                      |                      |                      |                      |                      |               | •               |                 |                                  |                     |                      |                     |                   |                     |   |                      | •                           | •*2                            | •                              |
|   |                      |                      | <b>1</b> 1                     | <b>1</b> 1                       |                    |                      |                      |                      |                      |                      | •             | •               | •               |                                  | •                   |                      | •                   |                   |                     |   | •                    |                             | •*2                            | •                              |
|   |                      |                      | *1<br>*1                       | *1<br>*1                         | •                  | •                    |                      |                      |                      |                      | •*3           | ●.3<br>●.3      | •*3             | •                                | •                   | •                    |                     |                   |                     |   | •                    | •                           | *3<br>*2                       | •                              |
|   |                      |                      | -1                             | 011                              | •                  |                      |                      |                      |                      |                      | 9.3           | 9.3             | 9.3             | •                                | •                   | •                    |                     |                   |                     |   | •                    | •                           | -                              | •                              |
|   |                      |                      | 011                            | 011                              |                    |                      | •                    |                      |                      |                      | 9.3           | 9.3             | -3              | •                                | •                   |                      |                     |                   |                     |   | •                    | •                           |                                |                                |
|   |                      |                      | <b>1</b> 1                     | <b>1</b> 1                       | •                  |                      | •                    |                      |                      |                      | ●,3           | ●.3             | ●,3             | •                                | •                   |                      |                     |                   |                     |   | •                    | •                           |                                | •                              |
|   |                      |                      | <b>1</b> 1                     | <b>•</b> *1                      | •                  |                      |                      | •                    |                      |                      | •             | •               | •               |                                  | •                   |                      |                     |                   |                     | •   | •                    | •                           | <b>•</b> *2                    | •                              |
|   |                      |                      | <b>1</b> 1                     | <b>•</b> *1                      | •                  |                      |                      | •                    |                      |                      |               | •               | •               |                                  | •                   |                      |                     |                   |                     |   |                      | •                           | •*2                            | •                              |
|   |                      |                      | <b>1</b> 1                     | <b>1</b> 1                       | •                  |                      |                      | •                    |                      |                      | •             | •               | •               |                                  | •                   |                      |                     |                   |                     | •   | •                    | •                           | •*2                            | •                              |
|   |                      |                      | <b>1</b> 1                     | <b>•</b> *1                      | •                  |                      |                      | •                    |                      |                      | •             | •               | •               |                                  | •                   |                      |                     |                   |                     | •   | •                    | •                           | *2<br>*2                       | •                              |
|   |                      |                      |                                |                                  |                    |                      |                      |                      |                      |                      | •             |                 | •               |                                  | •                   |                      |                     |                   |                     |   | •                    | •                           | 0*2                            |                                |
| - |                      |                      |                                |                                  |                    |                      |                      | •                    |                      |                      | •             | •               | •               |                                  | •                   |                      |                     |                   |                     |   | •                    | •                           | • 2                            |                                |
|   | •                    |                      |                                |                                  |                    |                      |                      |                      |                      |                      | •             | •               | •               |                                  | •                   |                      |                     |                   |                     |   | •                    | •                           | • *2                           |                                |
|   |                      |                      |                                |                                  | •                  |                      |                      | •                    |                      |                      |               |                 |                 |                                  |                     |                      |                     |                   |                     |   | •                    | •                           | •*2                            | •                              |
|   |                      |                      |                                |                                  | •                  |                      |                      | •                    |                      |                      |               |                 |                 |                                  |                     |                      |                     |                   |                     |   | •                    | •                           | •*2                            | •                              |
|   |                      |                      |                                |                                  | •                  |                      |                      | •                    |                      |                      |               |                 |                 |                                  |                     |                      |                     |                   |                     |   | •                    | •                           | •*2                            | •                              |
|   |                      |                      |                                |                                  | •                  |                      |                      | •                    |                      |                      | <u> </u>      |                 | <u> </u>        |                                  | l                   |                      | l                   |                   |                     |   | •                    |                             | <b>•</b> *2                    | •                              |

## Optional Parts List <Outdoor>

|        | 0               |                              |                 |                 | Distributi                                       | ion Pipe         |                    |                        |  |                        |                     | Joint              | Pipe        |                        |                       |                        | Liquid F         | Refrigera  | nt Dryer     |          |
|--------|-----------------|------------------------------|-----------------|-----------------|--|------------------|--------------------|------------------------|--|------------------------|---------------------|--------------------|-------------|------------------------|-----------------------|------------------------|------------------|--|--------------|----------|
|        |                 | Option                       |                 | Turin           |  | ·                | F 0                | nder-1                 | Unit<br>ø6.35                                    |                        | Unit<br>ø15.88      | Unit               |             |                        | Unit                  |                        |                  |  | For          |          |
|        |                 |                              | For 7<br>(50:   |                 | For T<br>(33:33                                  |                  | For Qua<br>(25:25: | adruple<br>:25:25)     | 96.35<br>><br>Pipe                               | >                      | #15.88<br>><br>Pipe | ø9.52<br>><br>Pipe | >           | ø9.52<br>><br>Pipe     | >                     | >                      | For pipe ø6.35   | For pipe   | pipe         |          |
|        |                 |                              |                 |                 |  |                  |                    | l                      |  |                        | ø19.05              | ø15.88             | ø9.52       | ø12.7                  | ø9.52                 | ø15.88                 |                  | JJ.02  | ۱۷.۱ ت       |          |
| _      | itdoor Unit     |                              | MSDD-<br>50TR-E | MSDD-<br>50WR-E | MSDT-<br>111R-E                                  | MSDT-<br>111R3-E | MSDF-<br>111R-E    | MSDF-<br>111R2-E       | PAC-<br>SG72                                     | PAC-<br>SG73           | PAC-<br>SG75        | PAC-<br>SG76       | PAC-<br>493 | Flare<br>MAC-<br>A454  | MAC-                  | MAC-<br>A456<br>JP-E   | PAC-<br>SG81     | PAC-<br>SG82                                     | PAC-<br>SG85 |          |
| UL     | utdoor Unit     | MUZ-LN25VG                   | SOIN-E          | SOVALU-E        | ···n-E   | ıı               | ····R-E            | 2-E                    | RJ-E   | RJ-E                   | RJ-E                | SG76<br>RJ-E       | 493<br>PI   | JP-E                   | JP-E                  | JP-E                   | DR-E             | DR-E   | DR-E         | <u> </u> |
|        | L Series        | MUZ-LN25VGHZ                 |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-LN35VG                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-LN35VGHZ<br>MUZ-LN50VG   |                 | <del></del>     |  | <u> </u>         | -                  |                        | <del></del>                                      | $\vdash$               | -                   | -                  | <b></b>     | $\vdash$               | $\vdash$              | $\vdash$               | $\vdash$         | <u> </u>   | $\vdash$     | $\vdash$ |
|        |                 | MUZ-LN50VGHZ                 |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | FT Sories       | MUZ-LN60VG<br>MUZ-FT25VGHZ   |                 |                 |  |                  |                    | $\vdash$               | $\vdash$   | $\Box$                 | $\Box$              | $\Box$             |             | $ar{\Box}$             | $\vdash \bar{\vdash}$ | $\vdash \vdash$        | $\vdash \exists$ | $\overline{\Box}$                                | $\vdash$     | $\vdash$ |
|        | FT Series       | MUZ-FT35VGHZ                 |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | A Coder         | MUZ-FT50VGHZ                 |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       | $\Box$                 |                  |  |              |          |
|        | A Series        | MUZ-AP15VG<br>MUZ-AP20VG     |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-AP25VG                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-AP25VGH<br>MUZ-AP35VG    |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-AP35VGH                  |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-AP42VG                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-AP42VGH<br>MUZ-AP50VG    |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-AP50VGH                  |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-AP60VG<br>MUZ-AP71VG     |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | E Series        | MUZ-EF25VG                   |                 | <u> </u>        |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | E Series        | MUZ-EF25VGH                  |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-EF35VG<br>MUZ-EF35VGH    |                 | <del></del>     | <del>                                     </del> |                  | <del></del>        |                        |  | $\vdash$               |                     | -                  |             | $\vdash\vdash$         | $\vdash$              | $\vdash$               | $\vdash$         |  | $\vdash$     | -        |
|        |                 | MUZ-EF42VG                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | BT Series       | MUZ-EF50VG<br>MUZ-BT20VG     |                 | $\vdash$        | $\vdash$   |                  |                    |                        | $\vdash$   | $\vdash \vdash \vdash$ |                     |                    |             | $\vdash \vdash \vdash$ | $\vdash \vdash$       | $\vdash$               | $\vdash$         |  | $\vdash$     | <u> </u> |
|        | D1 Genes        | MUZ-BT25VG                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-BT35VG                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       | $\Box$                 |                  |  |              |          |
|        | HR Series       | MUZ-BT50VG<br>MUZ-HR25VF     |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
| S      |                 | MUZ-HR35VF                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
| SERIES |                 | MUZ-HR42VF<br>MUZ-HR50VF     |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
| M SE   |                 | MUZ-HR60VF                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | TD Sories       | MUZ-HR71VF                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | TP Series       | MUY-TP35VF<br>MUY-TP50VF     |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | F Series        | MUZ-FH25VE                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-FH25VEHZ<br>MUZ-FH35VE   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-FH35VEHZ                 |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-FH50VE                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | S Series        | MUZ-FH50VEHZ<br>MUZ-SF25VE   |                 | <u></u>         |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-SF25VEH                  |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-SF35VE<br>MUZ-SF35VEH    |                 | <del></del>     |  | <u> </u>         | -                  |                        | $\vdash$   | $\vdash$               |                     |                    | <b>'</b>    | $\vdash$               | $\vdash$              | $\vdash$               | $\vdash$         |  | $\vdash$     | $\vdash$ |
|        |                 | MUZ-SF42VE                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-SF42VEH<br>MUZ-SF50VE    |                 | $\vdash$        | $\vdash = $                                      |                  |                    | $\vdash \vdash \vdash$ | $\vdash$   | $\Box$                 | $\Box$              |                    | $\Box$      | oxdot                  | oxdot                 | $\vdash \vdash \vdash$ | ert              |  | igsquare     |          |
|        |                 | MUZ-SF50VEH                  |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | G Series        | MUZ-GF60VE                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | W Series        | MUZ-GF71VE<br>MUZ-WN25VA     |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-WN35VA                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | D Series        | MUZ-DM25VA<br>MUZ-DM35VA     |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | H Series        | MUZ-HJ25VA                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-HJ35VA                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUZ-HJ50VA<br>MUZ-HJ60VA     |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | 0               | MUZ-HJ71VA                   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | Compact floor   | MUFZ-KJ25VE<br>MUFZ-KJ25VEHZ |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUFZ-KJ35VE                  |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUFZ-KJ35VEHZ                |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | MUFZ-KJ50VE<br>MUFZ-KJ50VEHZ |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | SERIES          | SUZ-M25VA                    |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
| (R3    |                 | SUZ-M35VA<br>SUZ-M50VA       |                 | $\vdash$        |  |                  | -                  |                        | <del>                                     </del> | $\vdash$               |                     |                    | -           | $\vdash$               | •                     | $\vdash$               | $\vdash$         | <del>                                     </del> | $\vdash$     | -        |
|        |                 | SUZ-M60VA                    |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        | DEDIES.         | SUZ-M71VA                    | $\vdash$        | $\Box$          |  |                  |                    | $\vdash$               | $\vdash$   | Щ                      | Щ                   |                    | $\Box$      | Щ                      | Щ                     | $\vdash$               | $\Box$           | $\vdash$   | $\Box$       | $\vdash$ |
|        | SERIES<br>410A) | SUZ-KA25VA6<br>SUZ-KA35VA6   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        | •                     |                        |                  |  |              |          |
| V-14   |                 | SUZ-KA50VA6                  |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |
|        |                 | SUZ-KA60VA6<br>SUZ-KA71VA6   |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  | آليا         |          |
|        |                 | OUL INTIVAU                  |                 |                 |  |                  |                    |                        |  |                        |                     |                    |             |                        |                       |                        |                  |  |              |          |

|   | Air Outlet Guide  MAC- MAC- MAC- MAC- MAC- PAC- PAC- 881 882 856 886 883 SJ07 SG59 SG SG-E SG SG-E SG-E SG-E |                   |                   |                     |                   |                      |                      | Air Protectio        |                      | Guide                | Dra                  | ain Soc              | ket                  | р                    | Freeze-<br>reventio<br>Heater<br>Drain P | n                   | Centra              | ılized Dra           | ain Pan              | M-NET<br>Adapter     | M-N<br>Conv           | IET<br>erter         | Control/<br>Service<br>Tool | Step<br>Interface<br>1 PC<br>board<br>w/attach-<br>ment kit | Insul<br>fo<br>Accum | ation<br>or<br>nulator | High<br>Static<br>Fan<br>Motor |                      |
|---|--|-------------------|-------------------|---------------------|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|---------------------|---------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|-----------------------------|---|----------------------|------------------------|--------------------------------|----------------------|
| • | MAC-<br>881<br>SG  | MAC-<br>882<br>SG | MAC-<br>856<br>SG | MAC-<br>886<br>SG-E | MAC-<br>883<br>SG | PAC-<br>SJ07<br>SG-E | PAC-<br>SG59<br>SG-E | PAC-<br>SH96<br>SG-E | PAC-<br>SJ06<br>AG-E | PAC-<br>SH63<br>AG-E | PAC-<br>SH95<br>AG-E | PAC-<br>SJ08<br>DS-E | PAC-<br>SG60<br>DS-E | PAC-<br>SG61<br>DS-E | MAC-<br>643<br>BH-E                      | MAC-<br>644<br>BH-E | MAC-<br>646<br>BH-E | PAC-<br>SG63<br>DP-E | PAC-<br>SG64<br>DP-E | PAC-<br>SH97<br>DP-E | PAC-<br>IF01<br>MNT-E | PAC-<br>SJ96<br>MA-E | PAC-<br>SJ95<br>MA-E        | PAC-<br>SK52ST  | PAC-<br>IF012<br>B-E | MAC-<br>892<br>INS-E   | MAC-<br>893<br>INS-E           | PAC-<br>SJ71<br>FM-E |
|   | •  |                   |                   |                     |                   |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |                     |                     |                      |                      |                      |                       |                      |                             |   |                      |                        |                                |                      |
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|   |  |                   |                   | •                   |                   |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |                     |                     |                      |                      |                      |                       |                      |                             |   |                      |                        |                                |                      |
|   |  |                   |                   |                     |                   |                      |                      |                      |                      |                      |                      |                      |                      |                      |  |                     |                     |                      |                      |                      |                       |                      |                             |   |                      |                        |                                |                      |

## Optional Parts List <Outdoor>

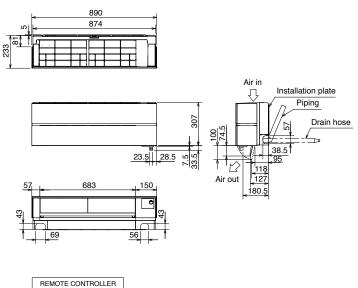
|                      | Option                                      |  |         | Di   | istribut | ion Pip | е    | 1      |         | Brai     | nch Pip | e/Hea    | der (Jo | oint)       |          |   |        |          |                |               |       |       |       |               | Liquid F  | ele pipe pipe pipe of 12.  C- PAC- PAC- SCA2 SCA8 SCA8 SCA8 SCA8 SCA8 SCA8 SCA8 SCA8 | nt Dryer | _  |
|----------------------|---|--|---------|------|----------|---------|------|--------|---------|----------|---------|----------|---------|-------------|----------|---|--------|----------|----------------|---------------|-------|-------|-------|---------------|---|--|----------|----|
|                      | 24.000                                      |  | _       |      |          | _       |      | -      | or      |          |         |          |         |             | [ Init a | 16 25   | Unit   | 19.52    | Unit<br>ø15.88 | Unit<br>ø9.52 | Unit  | Unit  | Unit  | Unit<br>ø12 7 | For   | For  | For      | ı  |
|                      |   |  |         |      |          |         |      | Quad   | druple  |          |         |          | Hea     | der         | :        | >   |        | >        | >              | >             | >     | >     | >     | >             | pipe  | pipe   | pipe     | ı  |
|                      |   |  | •       | ,    |          | `       | ,    | (25:25 | :25:25) | bo       | xes     |          |         |             | Pipe Ø   | 9.52  | Pipe @ |          |                |               | ø9.52 | ø12.7 | ø9.52 |               | ø6.35   | ø9.52  | ø12./    | ı  |
|                      |   | MCDD   | Medu    | Medu | Medu     | MODT    | MCDT | MODE   | MCDE    | Flare    | Brazing | CMY-     | CMY-    | CMY-        | PAC-     | PAC-  | PAC-   |          | PAC-           | DAG           | DAG   | Flare | 1440  | 1440          | PAC-  | PAC-   | PAC-     | ı  |
| utdoor Unit          |   |  |         |      |          |         |      |        |         | MSDD-    | MSDD-   | Y62-     | Y64-    | Y68-<br>G-E |          |   |        |          |                | SG76          | 493   | A454  | A455  | A456          |   | SG82   | SG85     | i  |
| Power                | PUZ-ZM35VKA                                 | ╁  |         |      |          |         |      |        |         | JOHNE    | OODIT L | <u> </u> | -       | ŭ <u>-</u>  | 1.0 2    | •   | 1.0 =  |          |                | RJ-E          | PI    | JP-E  | JP-E  | JP-E          | •   |  | D        | _  |
| Inverter             | PUZ-ZM50VKA                                 |  |         |      |          |         |      |        |         |          |         |          |         |             |          | •   |        |          |                |               |       |       |       |               | •   |  |          | _  |
| (R32)                | PUZ-ZM60VHA                                 |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        | •        |                |               |       |       |       |               |   |  |          | _  |
|                      | PUZ-ZM71VHA<br>PUZ-ZM100VKA                 | -  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | _  |
|                      | PUZ-ZM100YKA                                |  |         |      |          |         | •    |        |         |          |         |          |         |             |          |   |        | •        |                |               |       |       |       |               |   | _  |          | _  |
|                      | PUZ-ZM125VKA                                |  | •       |      |          |         | •    |        | •       |          |         |          |         |             |          |   |        | •        |                |               |       |       |       |               |   | •  |          | _  |
|                      | PUZ-ZM125YKA                                |  |         |      |          |         | •    |        | •       |          |         |          |         |             |          |   |        | •        |                |               |       |       |       |               |   | _  |          |    |
|                      | PUZ-ZM140VKA<br>PUZ-ZM140YKA                |  |         |      |          |         |      |        | _       |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | _  |
|                      | PUZ-ZM200YKA                                |  |         |      | •        |         | •    |        | •       |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | _  |
|                      | PUZ-ZM250YKA                                |  |         |      | •        |         | •    |        | •       |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | Ξ  |
| Power                | PUHZ-ZRP35VKA2                              |  | -       |      |          |         |      |        |         |          |         |          |         |             | •        |   |        |          |                |               |       |       |       |               | •   |  |          | _  |
| Inverter<br>(R410A)  | PUHZ-ZRP50VKA2<br>PUHZ-ZRP60VHA2            |  |         |      |          |         |      |        |         |          |         |          |         |             | •        |   |        |          |                |               |       |       |       |               | •   |  |          | _  |
|                      | PUHZ-ZRP71VHA2                              |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   | •      |          | •              |               |       |       |       |               |   |  |          | _  |
|                      | PUHZ-ZRP100VKA3                             | •  |         |      |          | •       |      |        |         |          |         |          |         |             |          |   | •      |          | •              |               |       |       |       |               |   | •  |          | _  |
|                      | PUHZ-ZRP100YKA3                             | •  |         |      |          | •       |      |        |         |          |         |          |         |             |          |   | •      |          |                |               |       |       |       |               |   |  |          |    |
|                      | PUHZ-ZRP125VKA3<br>PUHZ-ZRP125YKA3          |  | +       |      | -        |         |      |        |         | -        |         |          |         |             | $\vdash$ |   | _      |          |                |               |       |       |       |               |   |  |          | _  |
|                      | PUHZ-ZRP140VKA3                             | •  |         |      |          | •       |      | •      |         |          |         |          |         |             |          |   | •      |          | •              |               |       |       |       |               |   |  |          | _  |
|                      | PUHZ-ZRP140YKA3                             | •  |         |      |          | •       |      | •      |         |          |         |          |         |             |          |   | •      |          | •              |               |       |       |       |               |   | •  |          | _  |
|                      | PUHZ-ZRP200YKA3<br>PUHZ-ZRP250YKA3          |  |         | •    |          | 0       |      | •      |         |          |         |          |         |             |          |   | •      |          |                |               |       |       |       |               |   | •  |          |    |
| Standard             | PUHZ-ZRP250YKA3<br>PUZ-M100VKA              |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | _  |
| Inverter             | PUZ-M125VKA                                 |  | •       |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | _  |
| (R32)                | PUZ-M140VKA                                 |  | •       |      |          |         | •    |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | Ī  |
|                      | PUZ-M100YKA                                 | 1  | •       |      |          | _       |      |        |         | <u> </u> |         |          |         |             | oxdot    |   |        | $\Box$   |                |               |       |       |       |               |   |  |          | _  |
|                      | PUZ-M125YKA<br>PUZ-M140YKA                  |  | _       |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | Ē  |
|                      | PUZ-M200YKA                                 |  |         |      | •        |         | •    |        | •       |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | _  |
|                      | PUZ-M250YKA                                 |  |         |      | •        |         | •    |        | •       |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  | •        | _  |
| Standard             | PUHZ-P100VKA                                | •  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | 4  |
| Inverter<br>(R410A)  | PUHZ-P125VKA<br>PUHZ-P140VKA                | _  | 1       |      | 1        | •       |      |        |         |          |         |          |         |             | $\vdash$ |   |        |          |                |               |       |       |       |               |   |  |          | _  |
|                      | PUHZ-P100YKA                                | •  |         |      |          |         |      |        |         |          |         |          |         |             |          | 16.35 Unit up 5.2 |        |          |                |               |       |       |       |               |   |  |          |    |
|                      | PUHZ-P125YKA                                | Fee Tuning (25-35)  Fee Tu | -       |      | _        |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          |    |
|                      | PUHZ-P140YKA                                | •  |         |      |          | _       |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   | _  |          |    |
|                      | PUHZ-P200YKA3<br>PUHZ-P250YKA3              |  |         | _    |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  | •        |    |
| IXZ SERIES           | MXZ-2F33VF3                                 |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | _  |
| R32)                 | MXZ-2F42VF3                                 |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | Ī  |
|                      | MXZ-2F53VF(H)3                              | 1  | -       |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | _  |
|                      | MXZ-2F53VFHZ<br>MXZ-3F54VF3                 |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          |    |
|                      | MXZ-3F68VF3                                 |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                | •             | •     |       |       |               |   |  |          |    |
|                      | MXZ-4F72VF3                                 |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                | _             |       |       |       |               |   |  |          | Ē  |
|                      | MXZ-4F80VF3<br>MXZ-4F83VF                   |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | A  |
|                      | MXZ-4F83VF<br>MXZ-4F83VFHZ                  | 1  | +       |      |          |         |      |        |         |          |         |          |         |             | $\vdash$ |   |        |          |                |               |       |       |       |               |   |  |          | _  |
|                      | MXZ-5F102VF                                 |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          |    |
|                      | MXZ-6F122VF                                 |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                | •             |       | •     |       | •             |   |  |          | _  |
|                      | MXZ-2HA40VF<br>MXZ-2HA50VF                  |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          |    |
|                      | MXZ-2HA50VF<br>MXZ-3HA50VF                  |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | f  |
| IXZ SERIES           | MXZ-2D33VA                                  |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | _  |
| R410A)               | MXZ-2D42VA2                                 |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | أع |
|                      | MXZ-2D53VA(H)2<br>MXZ-2E53VAHZ              | 1  | +       | -    |          |         |      |        |         |          |         |          |         |             | $\vdash$ |   |        |          |                |               |       |       |       |               |   |  |          | _  |
|                      | MXZ-2E53VAHZ<br>MXZ-3E54VA                  |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          |    |
|                      | MXZ-3E68VA                                  |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       | •     |       |               |   |  |          | Ĺ  |
|                      | MXZ-4E72VA                                  |  | $\perp$ |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       | _             |   |  |          | _  |
|                      | MXZ-4E83VA<br>MXZ-4E83VAHZ                  |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | Æ  |
|                      | MXZ-4E83VAHZ<br>MXZ-5E102VA                 |  |         |      |          |         |      |        |         |          |         |          |         |             | $\vdash$ |   |        | $\vdash$ |                |               |       | _     |       |               |   |  |          | _  |
|                      | MXZ-6D122VA2                                |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       | _             |   |  |          | Ī  |
|                      | MXZ-2DM40VA                                 | 1  |         |      |          |         |      |        |         |          |         |          |         |             | oxdot    |   |        | $\sqcup$ |                |               |       |       |       |               |   |  |          | _  |
| IMV Cories           | MXZ-3DM50VA<br>PUMY-SP112VKM(-BS)           |  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          |    |
| UMY Series<br>R410A) | PUMY-SP112YKM(-BS)                          |  |         |      |          |         |      |        |         | _        |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   |  |          | f  |
| ,                    | PUMY-SP125VKM(-BS)                          |  |         |      |          |         |      |        |         | •        | •       | •        | •       | •           |          |   |        |          |                |               |       |       |       |               |   |  |          | _  |
|                      | PUMY-SP125YKM(-BS)                          |  |         |      |          |         |      |        |         | _        | _       |          |         |             |          |   |        |          |                |               |       |       |       |               | For pipe pipe of 6.35 op 9.52 of 12 |  | أع       |    |
|                      | PUMY-SP140VKM(-BS)<br>PUMY-SP140YKM(-BS)    | -  | -       |      | -        | -       |      |        |         | _        | _       |          | _       | _           |          |   |        |          |                |               |       |       |       |               |   |  |          | _  |
|                      | PUMY-SP140YKM(-BS)<br>PUMY-P112VKM5(-BS)    |  |         |      |          |         |      |        |         | _        | _       |          | _       |             |          |   |        |          |                |               |       |       |       |               |   |  |          |    |
|                      | PUMY-P112YKM(E)4(-BS)                       |  | L       |      |          |         |      |        |         | _        | _       |          | _       |             |          |   |        |          |                |               |       |       |       |               |   |  |          | _  |
|                      | PUMY-P125VKM5(-BS)                          |  |         |      |          |         |      |        |         | •        | •       | •        | •       | •           |          |   | •      |          |                |               |       |       |       |               |   |  |          | _  |
|                      | PUMY-P125YKM(E)4(-BS)                       |  |         |      |          |         |      |        |         | _        | _       |          | _       |             |          |   |        |          |                |               |       |       |       |               |   |  |          | أع |
|                      | PUMY-P140VKM5(-BS)<br>PUMY-P140YKM(E)4(-BS) | -  | -       |      |          |         |      |        |         | _        | _       |          | _       | _           |          |   |        |          |                |               |       |       |       |               |   |  |          | _  |
|                      | PUMY-P140YKM(E)4(-BS) PUMY-P200YKM2(-BS)    |  |         |      |          |         |      |        |         | _        | _       |          |         |             |          |   |        |          | _              |               |       |       |       |               |   |  |          |    |
|                      |   | _  |         |      |          |         |      |        |         |          | _       | -        | _       | _           |          |   |        |          | _              |               |       |       |       |               |   |  |          | 7  |
| OWERFUL              | PUHZ-SHW112VHA                              |  |         |      |          |         |      |        |         |          |         |          |         |             | '        |   |        |          | !              |               | '     |       |       |               |   |  |          | `  |
| POWERFUL<br>HEATING  | PUHZ-SHW112YHA                              | •  |         |      |          |         |      |        |         |          |         |          |         |             |          |   |        |          |                |               |       |       |       |               |   | •  |          | _  |

|                    | Branch Box         | Reactor Box    |                | Diff           | erent Diameter | Joint         |                  |
|--------------------|--------------------|----------------|----------------|----------------|----------------|---------------|------------------|
|                    | Outer Cover        | neactor box    | ø9.52>ø12.7    | ø12.7>ø9.52    | ø12.7>ø15.88   | ø6.35>ø9.52   | ø9.52>ø15.88     |
|                    | PAC-<br>AK350CVR-E | PAC-<br>RB01BC | MAC-<br>A454JP | MAC-<br>A455JP | MAC-<br>A456JP | PAC-<br>493PI | PAC-<br>SG76RJ-E |
| PAC-MK34BC (Flare) | •                  | •              | •              | •              | •              | •             | •                |
| PAC-MK54BC (Flare) | •                  | •              | •              | •              | •              | •             | •                |

| Air Outlet<br>Guide           |                  | ,                     | Air Out           | let Gui          | de                   |                | Air Pro          | tection          | Guide            | Dra                  | ain Soc          | ket              |                     |                     | e-preve<br>for Dra  |                     | Heater               |                      |                  | entraliz<br>rain Pa  |   | M-NET<br>Adapter      | M-N<br>Conv          |                  | Control<br>Service<br>Tool | 1 PC<br>w/at         | ep<br>rface<br>board<br>tach-<br>nt kit | Insu<br>f<br>Accu    | lation<br>or<br>mlator | Con-<br>nection<br>Kit | High<br>Static<br>Fan<br>Motor |
|-------------------------------|------------------|-----------------------|-------------------|------------------|----------------------|----------------|------------------|------------------|------------------|----------------------|------------------|------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|------------------|----------------------|---|-----------------------|----------------------|------------------|----------------------------|----------------------|---|----------------------|------------------------|------------------------|--------------------------------|
| MAC- MAC-<br>881 882<br>SG SG | MAC<br>856<br>SG | - MAC-<br>886<br>SG-E | MAC-<br>883<br>SG | PAC-SJ07<br>SG-E | PAC-<br>SG59<br>SG-E | PAC-SH96<br>SG | PAC-SJ06<br>AG-E | PAC-SH63<br>AG-E | PAC-SH95<br>AG-E | PAC-<br>SJ08<br>DS-E | PAC-SG60<br>DS-E | PAC-SG61<br>DS-E | MAC-<br>643<br>BH-E | MAC-<br>644<br>BH-E | PAC-<br>645<br>BH-E | PAC-<br>646<br>BH-E | PAC-<br>SJ10<br>BH-E | PAC-<br>SJ20<br>BH-E | PAC-SG63<br>DP-E | PAC-<br>SG64<br>DP-E | PAC-SH97<br>DP-E                        | PAC-<br>IF01<br>MNT-E | PAC-<br>SJ96<br>MA-E | PAC-SJ95<br>MA-E | PAC-SK52<br>ST             | PAC-<br>IF012<br>B-E | PAC-(S) IF013 B-E                       | MAC-<br>892<br>INS-E | MAC-<br>893<br>INS-E   | PAC-<br>LV11<br>M-J    | PAC-<br>SJ71<br>FM-E           |
|                               |                  |                       |                   |                  |                      |                |                  |                  |                  |                      |                  |                  |                     |                     |                     |                     |                      |                      |                  |                      |   |                       |                      |                  |                            |                      |   |                      |                        |                        |                                |
|                               | •                |                       |                   |                  |                      |                |                  |                  |                  |                      | •                |                  |                     |                     | •                   |                     | •                    |                      |                  |                      | 0 |                       |                      |                  |                            |                      |   |                      |                        |                        |                                |
|                               |                  |                       |                   |                  | •                    | •              |                  | •                | 0                |                      |                  | •                |                     |                     |                     |                     |                      | •                    |                  |                      | •                                       |                       |                      | •                |                            | •                    | •                                       |                      |                        | •                      | 0                              |

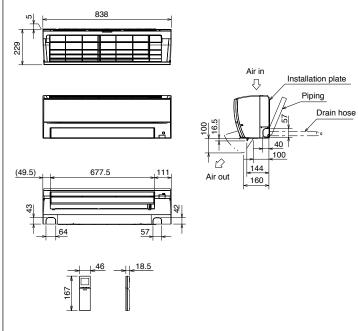
#### $$\label{eq:msz-ln25vg2} \begin{split} & \text{MSZ-LN25vG2(W)(V)(R)(B)} & \text{MSZ-LN35vG2(W)(V)(R)(B)} \\ & \text{MSZ-LN50vG2(W)(V)(R)(B)} & \text{MSZ-LN60vG2(W)(V)(R)(B)} \end{split}$$

#### INDOOR UNIT



#### MSZ-FT25VG MSZ-FT35VG MSZ-FT50VG MSZ-FT25VGK MSZ-FT35VGK MSZ-FT50VGK

#### **INDOOR UNIT**



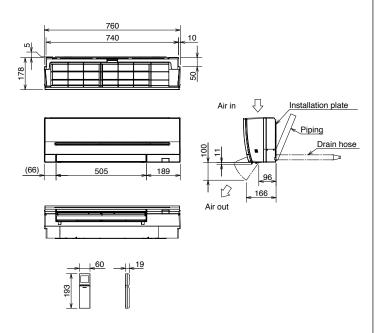
#### MSZ-AP15VG MSZ-AP20VG

IN CASE OF (V)(R)(B)

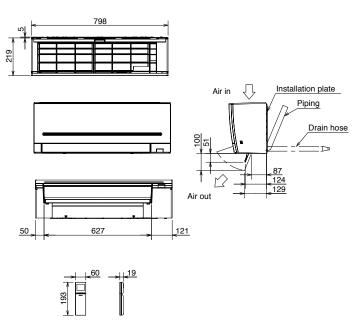
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193

193

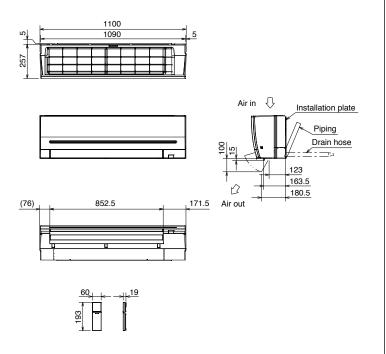


#### MSZ-AP25VG MSZ-AP35VG MSZ-AP42VG MSZ-AP50VG MSZ-AP25VGK MSZ-AP35VGK MSZ-AP42VGK MSZ-AP50VGK



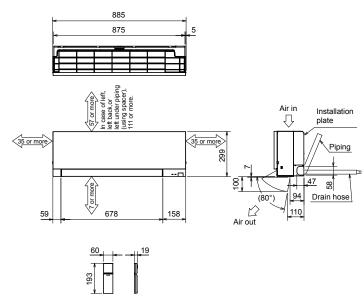
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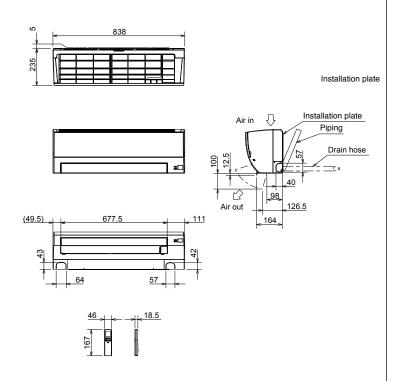
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MSZ-EF25VG(W)(B)(S) MSZ-EF35VG(W)(B)(S)
MSZ-EF18VGK(W)(B)(S) MSZ-EF50VG(W)(B)(S)
MSZ-EF25VGK(W)(B)(S) MSZ-EF22VGK(W)(B)(S)
MSZ-EF42VGK(W)(B)(S) MSZ-EF50VGK(W)(B)(S)

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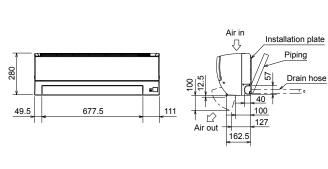
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#### INDOOR UNIT



#### MSZ-HR25VF MSZ-HR35VF MSZ-HR42VF MSZ-HR50VF

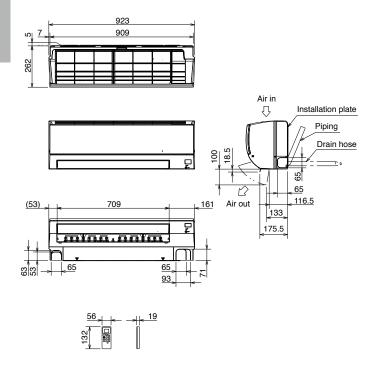
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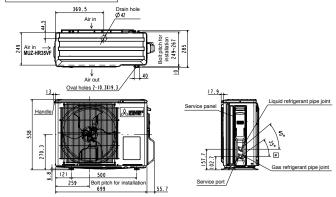
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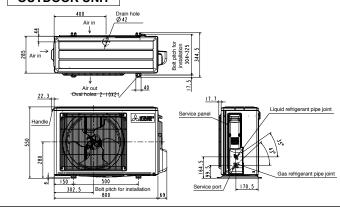
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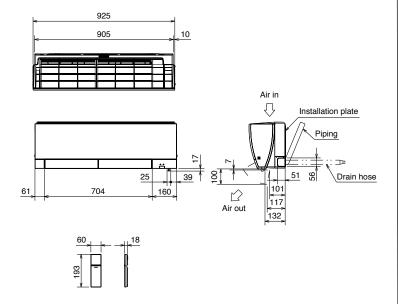
#### MUZ-HR42VF MUZ-HR50VF

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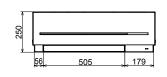
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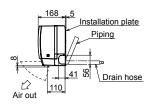
#### **INDOOR UNIT**



#### MSZ-SF15VA MSZ-SF20VA



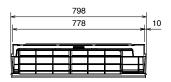


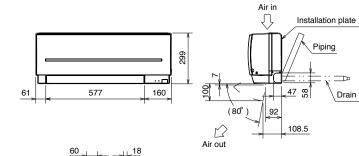




#### MSZ-SF25VE3 MSZ-SF35VE3 MSZ-SF42VE3 MSZ-SF50VE3

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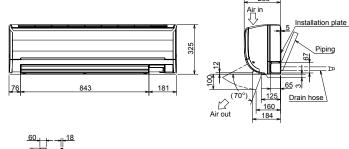




#### MSZ-GF60VE2 MSZ-GF71VE2

#### INDOOR UNIT



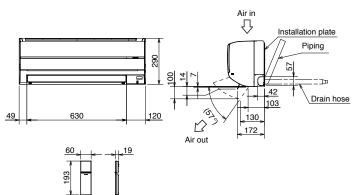




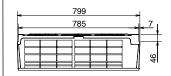
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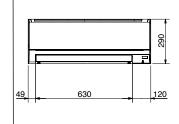
#### INDOOR UNIT

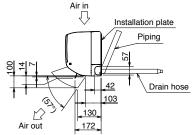




#### MSZ-DM25VA MSZ-DM35VA

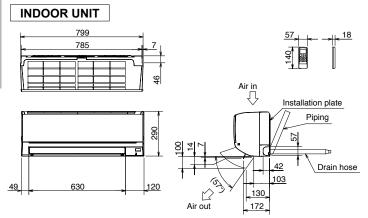




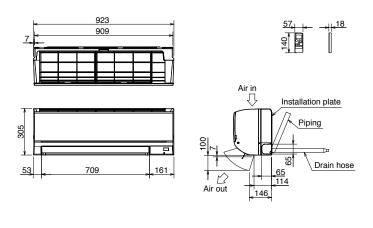




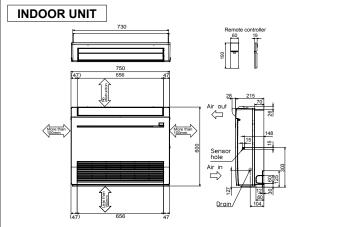
#### MSZ-HJ25VA MSZ-HJ35VA MSZ-HJ50VA



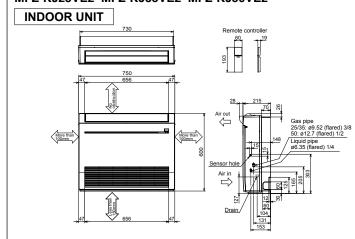
#### MSZ-HJ60VA MSZ-HJ71VA MSY-TP35VF MSY-TP50VF



#### MFZ-KT25VG MFZ-KT35VG MFZ-KT50VG MFZ-KT60VG



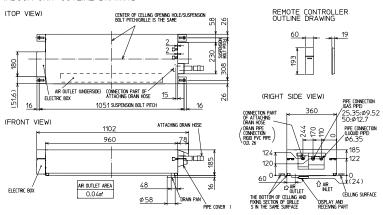
#### MFZ-KJ25VE2 MFZ-KJ35VE2 MFZ-KJ50VE2



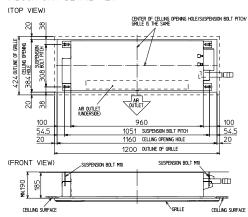
#### MLZ-KP25VF MLZ-KP35VF MLZ-KP50VF

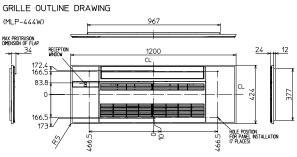
#### INDOOR UNIT



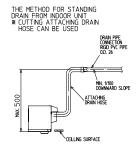


#### INDOOR UNIT DETAIL VIEW





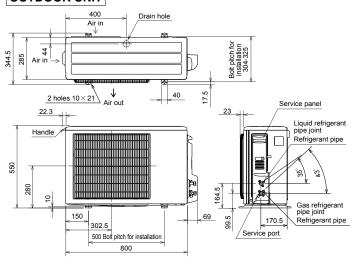
|                       |                     | KP25/35VF                             | KP50VF                     |  |
|-----------------------|---------------------|---------------------------------------|----------------------------|--|
| EXTENSION             | LIQUID PIPE<br>O.D. | Ø6                                    | .35                        |  |
| PIPE                  | GAS PIPE<br>O.D.    | ø9.52                                 | ø12.7                      |  |
| CONNECTIONS LIQUID PI |                     | FLARED CONNECTION<br>Ø6.35            |                            |  |
| OF PIPE               | GAS PIPE            | Flared Connection<br>Ø9.52            | FLARED CONNECTION<br>Ø12.7 |  |
| DRAIN HOSE            |                     | HEAT INSULATER O.D. CONNECT<br>Ø32 Ø2 |                            |  |
| DRAIN PIPE CONNECTION |                     | RIGID PVC PIPE                        | O.D. 26                    |  |



**MUZ-LN25VGHZ MUZ-LN25VG MUZ-LN35VG MUZ-LN35VGHZ MUZ-AP20VG MUZ-AP25VG MUZ-AP25VGH MUZ-AP35VGH MUZ-AP35VG MUZ-AP42VG MUZ-AP42VGH MUZ-HR42VF MUZ-FT25VGHZ MUZ-HR50VF MUZ-FH25VE MUZ-FH35VE MUZ-FH25VEHZ MUZ-FH35VEHZ MUZ-EF25VG MUZ-EF25VGH MUY-TP50VF** MUZ-EF35VGH **MUZ-EF35VG MUZ-EF42VG MUY-TP35VF MUZ-SF35VE MUZ-SF42VEH MUZ-SF25VE MUZ-SF25VEH MUZ-SF35VEH MUZ-SF42VE MUZ-HJ50VA MUFZ-KJ25VE MUFZ-KJ35VE** 

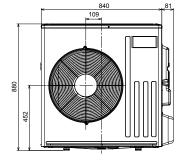
**OUTDOOR UNIT** 

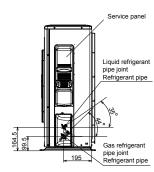
MUFZ-KJ25VEHZ MUFZ-KJ35VEHZ



MUZ-LN50VGHZ **MUZ-LN60VG MUZ-AP71VG MUZ-FH50VEHZ MUZ-FH50VE MUZ-SF50VE** MUZ-SF50VEH **MUZ-GF60VE MUZ-GF71VE MUZ-HJ60VA MUZ-HJ71VA MUFZ-KJ50VE MUFZ-KJ50VEHZ OUTDOOR UNIT** 

Drain hole Ø42 ↓ Air out 2-holes 10 X 21





**MUZ-AP60VG** 

MUZ-WN25VA MUZ-WN35VA MUZ-HR25VF **MUZ-HR35VF** MUZ-DM25VA MUZ-DM35VA MUZ-HJ25VA MUZ-HJ35VA **MUZ-AP15VG** 

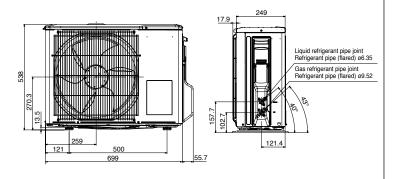
**MUZ-BT20VG MUZ-BT25VG MUZ-BT35VG** 

**MUZ-BT50VG** 

**OUTDOOR UNIT** 

349.5

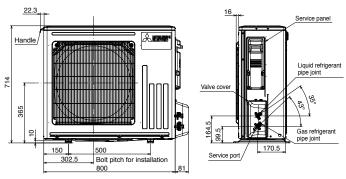
Û Drain hole ø33 9.6 Air out 2-10.3×19.3 Oval hole



**MUZ-LN50VG** MUZ-FT35/50VGHZ MUZ-AP50VG MUZ-AP50VGH MUZ-EF50VG MUZ-HR60VF MUZ-HR71VF

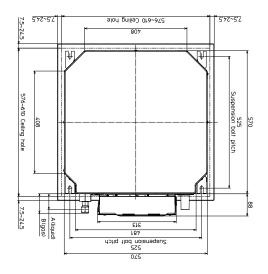
**OUTDOOR UNIT** 

Drain hole ø42 Û Bolt pitch for installation 304~325 Air in 17.5 40 Oval holes 2-10×21

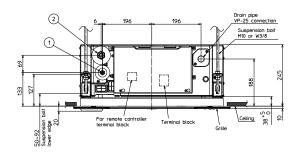


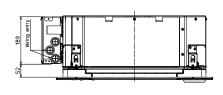
#### SLZ-M15FA SLZ-M25FA SLZ-M35FA SLZ-M50FA SLZ-M60FA

#### **INDOOR UNIT**

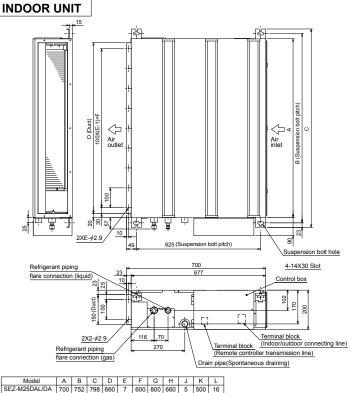


| Models                              | Refrigerent pipe (liquid) | ② Refrigerent pipe (gas)                | Α    | В    |
|-------------------------------------|---------------------------|---|------|------|
| SLZ-M15FA<br>SLZ-M25FA<br>SLZ-M35FA |                           |   | 63mm | 72mm |
| SLZ-M50FA                           |                           | φ 12.7mm<br>flared connection 1/2F      | 63mm | 78mm |
| SLZ-M60FA                           |                           | \$\phi\$ 15.88mm flared connection 5/8F | 63mm | 78mm |





#### SEZ-M25DA(L) SEZ-M35DA(L) SEZ-M50DA(L) SEZ-M60DA(L) SEZ-M71DA(L)

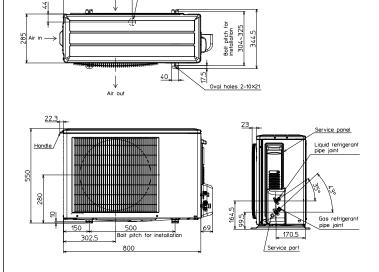


# 

# Notes: 1. Use M10 bolts for suspension (purchase locally). 2. Keep service space for maintenance at the bottom. 3. This chart is based on the SEZ-M50DAL/DA, which has three fans. SEZ-M25, 35DAL/DA has two fans, and SEZ-M60, 71DAL/DA has four fans. 4. If an inlet duct is used, remove the air filter supplied with the unit, and install a locally purchased filter on the suction side.

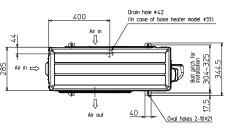
#### SUZ-M25VA SUZ-M35VA

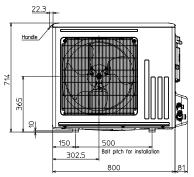
#### **OUTDOOR UNIT**

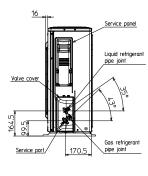


#### SUZ-M50VA

#### **OUTDOOR UNIT**

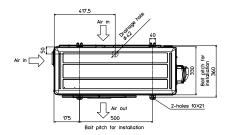


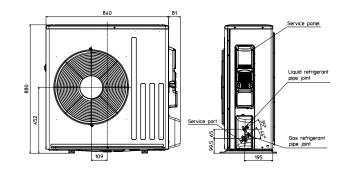




#### SUZ-M60VA SUZ-M71VA

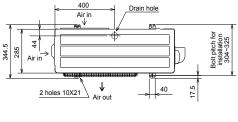
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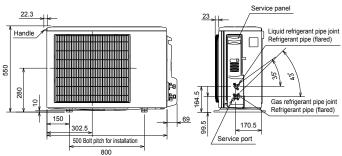




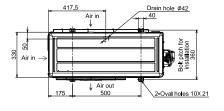
#### SUZ-KA25VA6 SUZ-KA35VA6

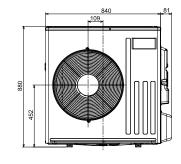
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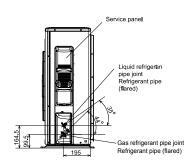




#### SUZ-KA50VA6 SUZ-KA60VA6 SUZ-KA71VA6

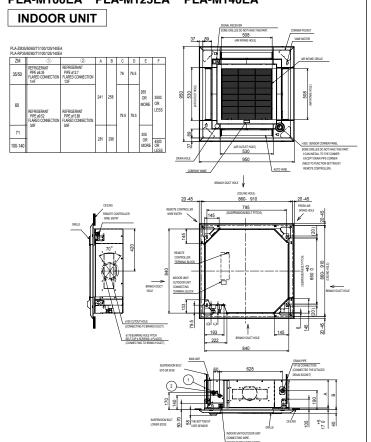




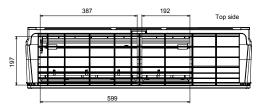


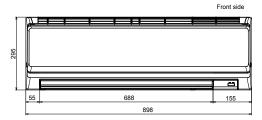
P SERIES Unit: mm

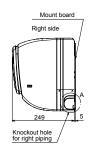
PLA-ZM35EA PLA-ZM50EA PLA-ZM60EA PLA-ZM71EA PLA-ZM100EA PLA-ZM125EA PLA-M60EA PLA-M71EA PLA-M100EA PLA-M125EA PLA-M140EA



#### PKA-M35HA(L) PKA-M50HA(L) INDOOR UNIT

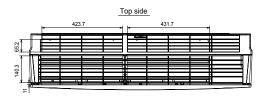


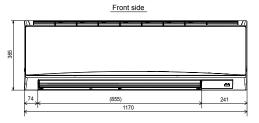


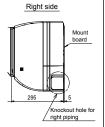


#### PKA-M60KA(L) PKA-M71KA(L) PKA-M100KA(L)

#### INDOOR UNIT

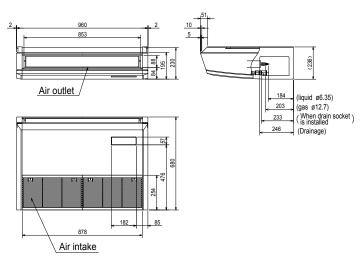






#### PCA-M35KA PCA-M50KA

#### INDOOR UNIT

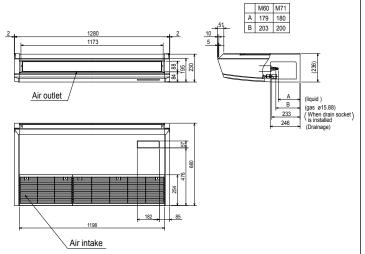


#### NOTES.

- 1.Use M10 or W3/8 screw for anchor bolt.
- 2.Please be sure when installing the drain pump (option parts), refrigerant pipe will be only upward.

#### PCA-M60KA PCA-M71KA

#### INDOOR UNIT



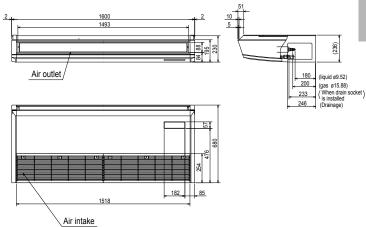
#### NOTES.

- 1.Use M10 or W3/8 screw for anchor bolt.
- 2.Please be sure when installing the drain pump (option parts), refrigerant pipe will be only upward.

Use the current nuts meeting the pipe size of the outdoor unit. Available pipe size

#### PCA-M100KA PCA-M125KA PCA-M140KA

#### INDOOR UNIT



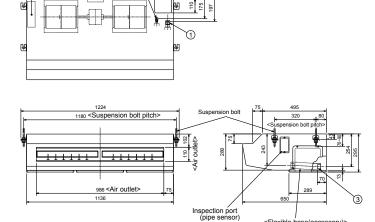
#### NOTES.

- 1.Use M10 or W3/8 screw for anchor bolt.
- 2.Please be sure when installing the
- drain pump (option parts), refrigerant pipe will be only upward.

#### PCA-M71HA

#### **INDOOR UNIT**

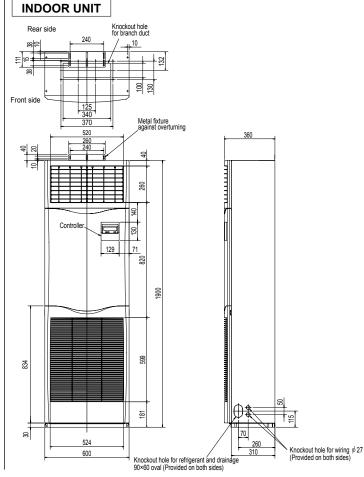
Terminal block box



<Flexible hose(accessory)>

- ①Refrigerant pipe connection(gas pipe side/flared connection) ②Refrigerant pipe connection(liquid pipe side/flared connection) ③Flexible hose(accessory) —Drainage pipe connection

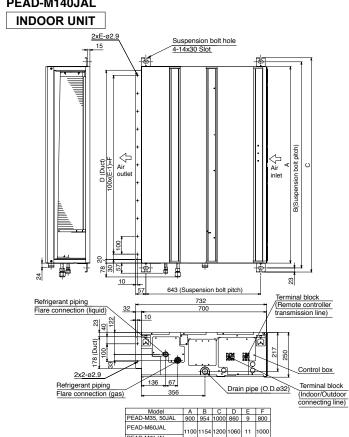
#### PSA-RP71KA PSA-RP100KA PSA-RP125KA PSA-RP140KA



#### PEAD-M35JA PEAD-M50JA PEAD-M60JA PEAD-M71JA PEAD-M100JA PEAD-M125JA PEAD-M140JA

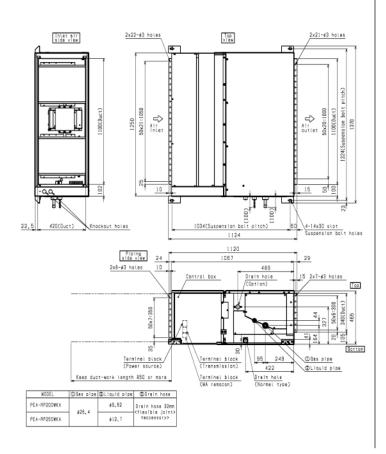
#### **INDOOR UNIT** Suspension bolt hole 4-14x30 Slot A B(Suspension bolt pitch) Air outlet 65 83 10 g 28 643 (Suspension bolt pitch) Terminal block (Remote controller 32 transmission line) Drain pipe Drain pump Control box 2x2-ø2.9 Drain pipe (O.D.ø32) (Spontaneous draining) Refrigerant piping Flare connection (gas) connecting line) A B C D E F G 900 954 1000 860 9 800 858 Model PEAD-M35, 50JA PEAD-M60JA 1100 1154 1200 1060 11 1000 1058 PEAD-M71JA PEAD-M100, 125JA | 1400 | 1454 | 1500 | 1360 | 14 | 1300 | 1358 | PEAD-M140JA | 1600 | 1654 | 1700 | 1560 | 16 | 1500 | 1558 |

#### PEAD-M35JAL PEAD-M50JAL PEAD-M60JAL PEAD-M71JAL PEAD-M100JAL PEAD-M125JAL PEAD-M140JAL



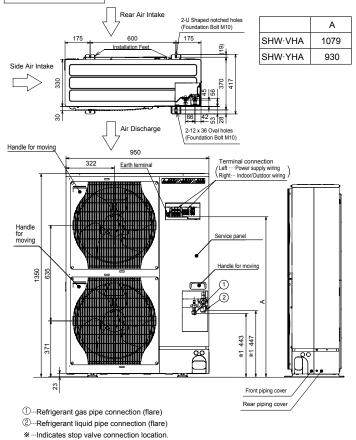
PEAD-M100, 125JAL 1400 1454 1500 1360 14 1300
PEAD-M140JAL 1600 1654 1700 1560 16 1500

#### PEA-RP200WKA PEA-RP250WKA

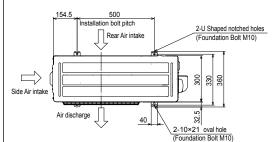


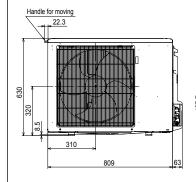
#### PUHZ-SHW112VHA PUHZ-SHW112YHA PUHZ-SHW140YHA

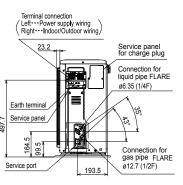
#### **OUTDOOR UNIT**



#### PUZ-ZM35VKA PUZ-ZM50VKA OUTDOOR UNIT

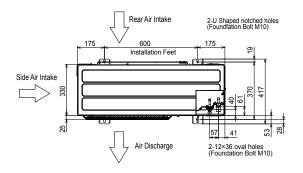




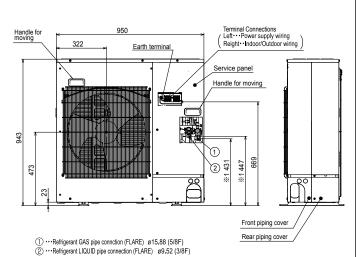


#### PUZ-ZM60VHA PUZ-ZM71VHA

#### **OUTDOOR UNIT**

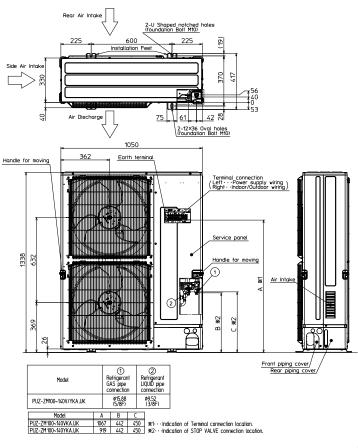


¾ 1 · · · Indication of STOP VALVE connection location.



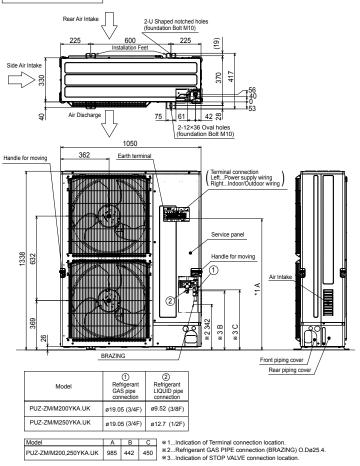
#### PUZ-ZM100VKA PUZ-ZM125VKA PUZ-ZM140VKA PUZ-ZM100YKA PUZ-ZM125YKA PUZ-ZM140YKA

#### **OUTDOOR UNIT**



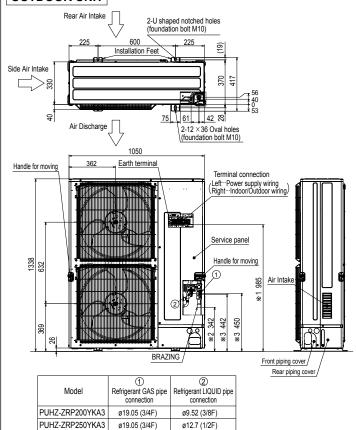
#### PUZ-ZM200YKA PUHZ-ZM250YKA

#### **OUTDOOR UNIT**



#### PUHZ-ZRP200YKA3 PUHZ-ZRP250YKA3

#### **OUTDOOR UNIT**



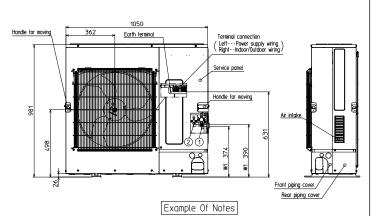
- \*1...Indication of Terminal connection location
- \*\*2---Refrigerant GAS pipe connection (BRAZING) O.Dø25.4.
  \*\*3---Indication of STOP VALVE connection location.

Rear Air Intake

#### PUZ-M100VKA PUZ-M100YKA PUZ-M125VKA PUZ-M125YKA PUZ-M140VKA PUZ-M140YKA

#### **OUTDOOR UNIT**

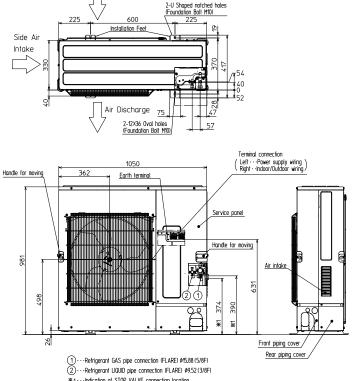
#### Rear Air Intake 2-U Shaped notched holes (Foundation Bolt M10) 600 Installation Feet Side Air Intake Air Discharge 75 2-12×36 Oval holes (Foundation Bolt M10)



#### ...Refrigerant GAS pipe connection (FLARE) Ø15.88 (5/8F) ...Refrigerant LIOUID pipe connection (FLARE) Ø9.52 (3/8F) \*1...Indication of STOP VALVE connection location.

#### PUHZ-P100VKA PUHZ-P100YKA PUHZ-P125VKA PUHZ-P125YKA PUHZ-P140VKA PUHZ-P140YKA

#### **OUTDOOR UNIT**



#### PUZ-M200YKA PUZ-M250YKA **OUTDOOR UNIT**

PUZ-ZM/M250YKA.UK

ø19.05 (3/4F)

ø12.7 (1/2F)

A B C \*1...Indication of Terminal connection location.

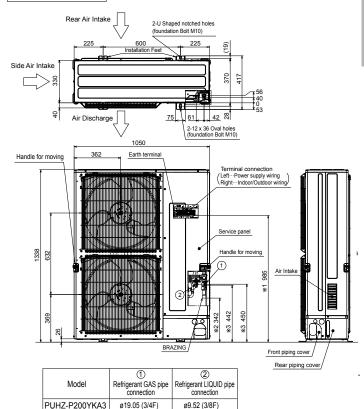
985 442 450 \*2...Refrigerant GAS PIPE connection (BRAZING) O.Dø25.4.

\*3...Indication of STOP VALVE connection location.

#### 2-U Shaped notched holes (foundation Bolt M10) (19) Side Air Intake 417 > 28 370 8 2-12×36 Oval holes (foundation Bolt M10) 1050 362 Earth terminal Handle for moving (Terminal connection Left...Power supply wiring Right...Indoor/Outdoor wiring) Service panel 1338 Handle for moving Œ Air Intake 99 \*3B Front piping cover Rear piping cover Refrigerant LIQUID pipe Model PUZ-ZM/M200YKA.UK ø9.52 (3/8F) ø19.05 (3/4F)

#### PUHZ-P200YKA3 PUHZ-P250YKA3

#### **OUTDOOR UNIT**



ø12.7 (1/2F)

PUHZ-P250YKA3

\*1--Indication of Terminal connection location.
\*2--Refrigerant GAS pipe connection (BRAZING) O.Dø25.4.
\*3--Indication of STOP VALVE connection location.

ø19.05 (3/4F)

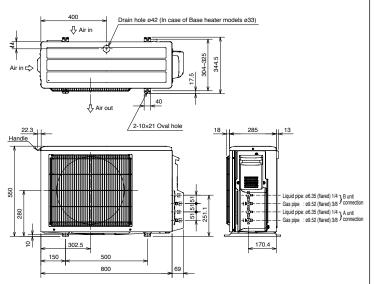
- Unit: mm

 MXZ-2D33VA
 MXZ-2D42VA2
 MXZ-2D53VA2
 MXZ-2D53VAH2

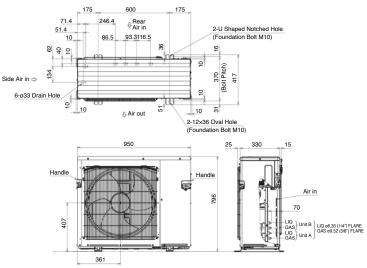
 MXZ-2DM40VA
 MXZ-2HA40VF
 MXZ-2HA50VF

 MXZ-2F33VF3
 MXZ-2F42VF3
 MXZ-2F53VF3
 MXZ-2F53VFH3

#### **OUTDOOR UNIT**

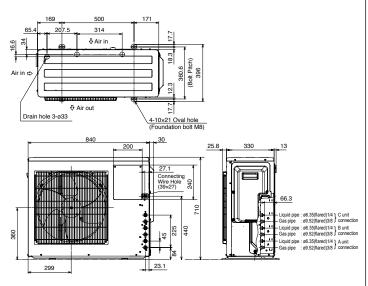


#### MXZ-2E53VAHZ MXZ-2F53VFHZ OUTDOOR UNIT



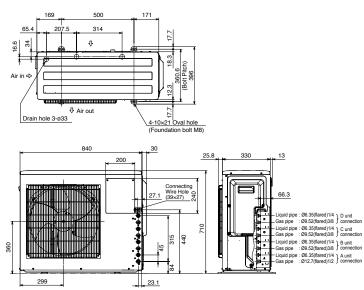
MXZ-3E54VA MXZ-3E68VA MXZ-3DM50VA MXZ-3HA50VF MXZ-3F54VF3 MXZ-3F68VF3

#### **OUTDOOR UNIT**

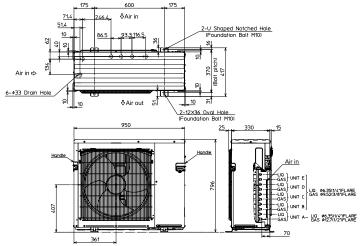


#### MXZ-4E72VA MXZ-4F72VF3 MXZ-4F80VF3

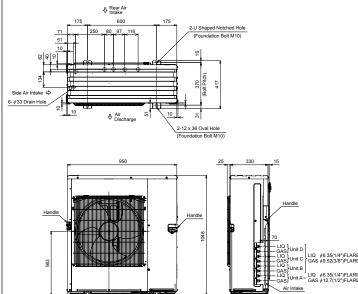
#### **OUTDOOR UNIT**



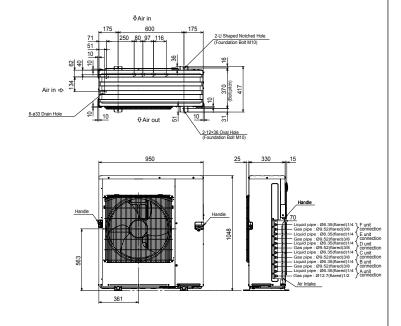
#### MXZ-4E83VA MXZ-5E102VA MXZ-4F83VF MXZ-5F102VF OUTDOOR UNIT



#### MXZ-4E83VAHZ MXZ-4F83VFHZ OUTDOOR UNIT

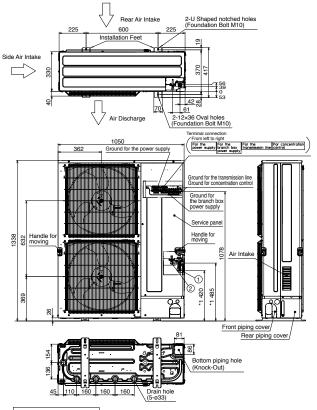


#### MXZ-6D122VA2 MXZ-6F122VF OUTDOOR UNIT



#### PUMY-P112/125/140VKM5(-BS)

#### **OUTDOOR UNIT**

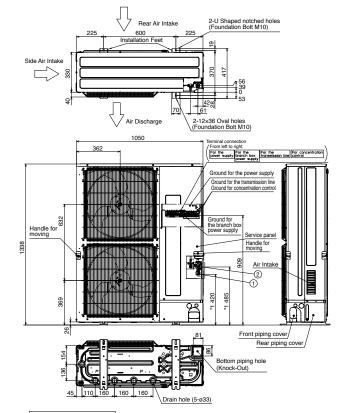


#### Example of Notes

Refrigerant GAS pipe connection (FLARE) ø15.88 (5/8F)
 Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
 Indication of STOP VALVE connection location.

#### PUMY-P112/125/140YKM(E)4(-BS)

#### **OUTDOOR UNIT**

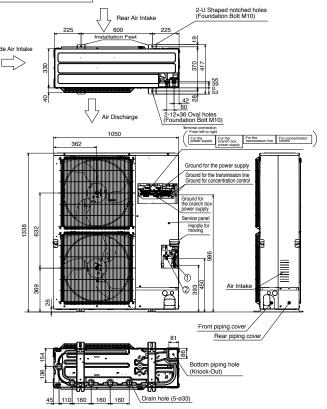


#### Example of Notes

- Refrigerant GAS pipe connection (FLARE) ø15.88 (5/8F)
  Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
  Indication of STOP VALVE connection location.

#### PUMY-P200YKM2(-BS)

#### **OUTDOOR UNIT**

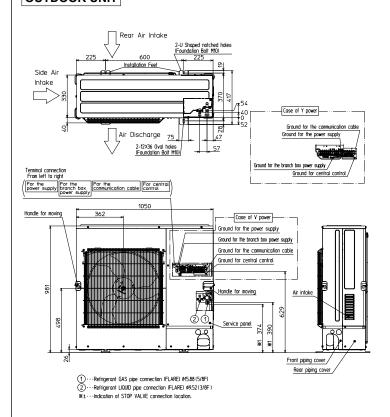


#### Example of Notes

- -- Refrigerant GAS pipe connection (FLARE) ø19.05 (3/4F)
  -- Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
  -- Indication of STOP VALVE connection location.

#### PUMY-SP112/125/140VKM(-BS) PUMY-SP112/125/140YKM(-BS)

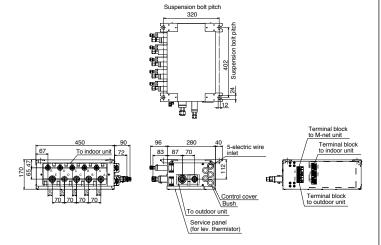
#### **OUTDOOR UNIT**



#### PAC-MK54BC

Suspension bolt: W3/W8 (M10)

#### Branch box



Suspension bolt : W3/8(M10) Refrigerant pipe flared connection

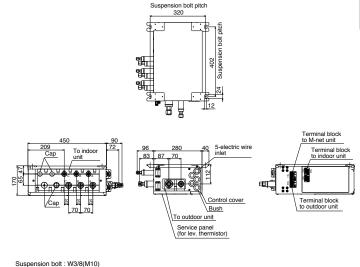
#### PAC-MK34BC

Suspension bolt: W3/W8 (M10)

Refrigerant pipe flared connection

| A B C | Liquid pipe | 1/4F | 1/4F | 1/4F | Gas pipe | 3/8F | 3/8F | 3/8F |

#### Branch box



To outdoor unit 3/8F 5/8F

#### Piping Installation

#### M SERIES

#### Single type

| Series         | Class                       | Maximum Piping Length (m) | Maximum Height Difference (m)  | Maximum Number of Bends |
|----------------|-----------------------------|---------------------------|--------------------------------|-------------------------|
| Series         | <outdoor unit=""></outdoor> | Total length (A)          | Outdoor unit - Indoor unit (H) | Total number            |
| MSZ-L          | 25 / 35                     | 20                        | 12                             | 10                      |
|                | 50                          | 20                        | 12                             | 10                      |
|                | 60                          | 30                        | 15                             | 10                      |
| MSZ-FT         | 25                          | 20                        | 12                             | 10                      |
|                | 35 / 50                     | 30                        | 15                             | 10                      |
| MSZ-A          | 15 / 25 / 35 / 42 / 50      | 20                        | 12                             | 10                      |
|                | 60 / 71                     | 30                        | 15                             | 10                      |
| MSZ-EF         | 25 / 35 / 42                | 20                        | 12                             | 10                      |
|                | 50                          | 30                        | 15                             | 10                      |
| MSZ-BT         | 20 / 25 / 35 / 50           | 20                        | 12                             | 10                      |
| MSZ-HR         | 25 / 35 / 42 / 50           | 20                        | 12                             | 10                      |
|                | 60 / 71                     | 30                        | 15                             | 10                      |
| MSY-TP         | 35 / 50                     | 20                        | 12                             | 10                      |
| MSZ-F<br>MFZ   | 25 / 35                     | 20                        | 12                             | 10                      |
| WIF Z          | 50                          | 30                        | 15                             | 10                      |
| MSZ-S          | 25 / 35 / 42                | 20                        | 12                             | 10                      |
|                | 50 / 60                     | 30                        | 15                             | 10                      |
| MSZ-G          | 60 / 71                     | 30                        | 15                             |                         |
| MSZ-W<br>MSZ-D | 25 / 35                     | 20                        | 12                             | 10                      |
| MSZ-HJ         | 25 / 35 / 50                | 20                        | 12                             | 10                      |
|                | 60 / 71                     | 30                        | 15                             | 10                      |

#### S SERIES & P SERIES

#### Single type

| O-d-                                | Class                       | Maximum Piping Length (m) | Maximum Height Difference (m)  | Maximum Number of Bends |
|-------------------------------------|-----------------------------|---------------------------|--------------------------------|-------------------------|
| Series                              | <outdoor unit=""></outdoor> | Total length (A)          | Outdoor unit - Indoor unit (H) | Total number            |
| ZUBADAN (PUHZ-SHW)                  | 80 / 112 / 140              | 75                        | 30                             | 15                      |
| Power Inverter (PUZ-ZM)             | 35 / 50                     | 50                        | 30                             | 15                      |
|                                     | 60 / 71                     | 55                        | 30                             | 15                      |
|                                     | 100 / 125 / 140             | 100                       | 30                             | 15                      |
| Power Inverter (PUHZ-ZRP)           | 35 / 50 / 60 / 71           | 50                        | 30                             | 15                      |
|                                     | 100 / 125 / 140             | 75                        | 30                             | 15                      |
|                                     | 200 / 250                   | 100                       | 30                             | 15                      |
| Standard Inverter (PUZ-M & SUZ-M)   | 25 / 35                     | 20                        | 12                             | 10                      |
|                                     | 50 / 60 / 71                | 30                        | 30                             | 10                      |
|                                     | 100                         | 55                        | 30                             | 45                      |
|                                     | 125 / 140                   | 65                        | 30                             | 15                      |
| Standard Inverter (PUHZ-P & SUZ-KA) | 25 / 35                     | 20                        | 12                             | 10                      |
|                                     | 50 / 60 / 71                | 30                        | 30                             | 10                      |
|                                     | 100 / 125 / 140             | 50                        | 30                             | 15                      |
|                                     | 200 / 250                   | 70                        | 30                             | 15                      |

#### Twin type

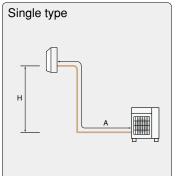
|                            |                                      | Ma                    | Maximum Piping Length (m)                          |   |                                    | Maximum Height Difference (m)     |              |
|----------------------------|--------------------------------------|-----------------------|--|---|------------------------------------|-----------------------------------|--------------|
| Series                     | Class<br><outdoor unit=""></outdoor> | Total length<br>A+B+C | Pipe length difference from distribution pipe  B-C | Indoor unit -<br>Distribution pipe<br>B | Outdoor unit -<br>Indoor unit<br>H | Indoor unit -<br>Indoor unit<br>h | Total number |
| ZUBADAN (PUHZ-SHW)         | 80 / 112 / 140                       | 75                    | 8  | 20                                      | 30                                 | 1                                 | 15           |
| Power Inverter (PUZ-ZM)    | 71                                   | 55                    | 8  | 20                                      | 30                                 | 1                                 | 15           |
|                            | 100 / 125 / 140                      | 100                   | 8  | 20                                      | 30                                 | 1                                 | 15           |
|                            | 200 / 250                            |                       |  |   |                                    |                                   |              |
| Power Inverter (PUHZ-ZRP)  | 71                                   | 50                    | 8  | 20                                      | 30                                 | 1                                 | 15           |
|                            | 100 / 125 / 140                      | 75                    | 8  | 20                                      | 30                                 | 1                                 | 15           |
|                            | 200 / 250                            | 100                   | 8  | 30                                      | 30                                 | 1                                 | 15           |
| Standard Inverter (PUZ-M)  | 100                                  | 55                    |  |   |                                    |                                   |              |
|                            | 125 / 140                            | 65                    | 8  | 20                                      | 30                                 | 1                                 | 15           |
|                            | 200 / 250                            |                       |  |   |                                    |                                   |              |
| Standard Inverter (PUHZ-P) | 100 / 125 / 140                      | 50                    | 8  | 20                                      | 30                                 | 1                                 | 15           |
|                            | 200 / 250                            | 70                    | 8  | 30                                      | 30                                 | 1                                 | 15           |

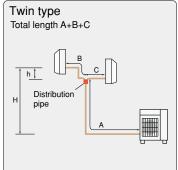
#### Triple type

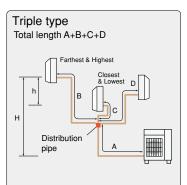
|                            |                                      | Maximum Piping Length (m) |  |   | Maximum Height Difference (m)      |                                   | Maximum Number of Bends |
|----------------------------|--------------------------------------|---------------------------|--|---|------------------------------------|-----------------------------------|-------------------------|
| Series                     | Class<br><outdoor unit=""></outdoor> | Total length<br>A+B+C+D   | Pipe length difference<br>from distribution pipe<br> B-C | Indoor unit -<br>Distribution pipe<br>B | Outdoor unit -<br>Indoor unit<br>H | Indoor unit -<br>Indoor unit<br>h | Total number            |
| Power Inverter (PUZ-ZM)    | 140                                  | 100                       | 8  | 20                                      | 30                                 | 1                                 | 15                      |
|                            | 200 / 250                            |                           |  |   |                                    |                                   |                         |
| Power Inverter (PUHZ-ZRP)  | 140                                  | 75                        | 8  | 20                                      | 30                                 | 1                                 | 15                      |
|                            | 200 / 250                            | 100                       | 8  | 30                                      | 30                                 | 1                                 | 15                      |
| Standard Inverter (PUZ-M)  | 140                                  | 65                        | 8  | 20                                      | 30                                 | 1                                 | 15                      |
|                            | 200 / 250                            |                           |  |   |                                    |                                   |                         |
| Standard Inverter (PUHZ-P) | 140                                  | 50                        | 8  | 20                                      | 30                                 | 1                                 | 15                      |
|                            | 200 / 250                            | 70                        | 8  | 28                                      | 30                                 | 1                                 | 15                      |

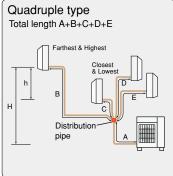
#### Quadruple type

|                                   |                                      | Maximum Piping Length (m) |  |   | Maximum Height Difference (m)      |                                   | Maximum Number of Bends |
|-----------------------------------|--------------------------------------|---------------------------|--|---|------------------------------------|-----------------------------------|-------------------------|
| Series                            | Class<br><outdoor unit=""></outdoor> | Total length<br>A+B+C+D+E | Pipe length difference<br>from distribution pipe<br> B-C | Indoor unit -<br>Distribution pipe<br>B | Outdoor unit -<br>Indoor unit<br>H | Indoor unit -<br>Indoor unit<br>h | Total number            |
| Power Inverter (PUZ-ZM, PUHZ-ZRP) | 200 / 250                            | 100                       | 8  | 30                                      | 30                                 | 1                                 | 15                      |
| Standard Inverter (PUZ-M, PUHZ-P) | 200 / 250                            | 70                        | 8  | 22                                      | 30                                 | 1                                 | 15                      |









#### **MXZ** SERIES

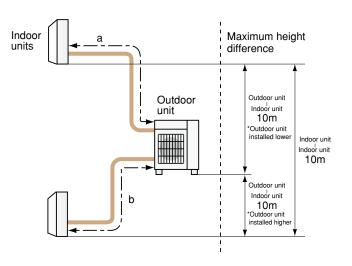
#### MXZ-2D33VA, MXZ-2F33VF3

| Maximum Piping Length            |     |  |  |  |
|----------------------------------|-----|--|--|--|
| Outdoor unit - Indoor unit (a,b) | 15m |  |  |  |
| Total length (a+b)               | 20m |  |  |  |

| Maximum Number of Bends          |    |
|----------------------------------|----|
| Outdoor unit - Indoor unit (a,b) | 15 |
| Total number (a+b)               | 20 |

<sup>\*</sup> When connecting MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please contact Mitsubishi Electric.

Regarding MXZ-2D33, the second unit should be a different type in the case of selecting one MFZ-KJ.



#### MXZ-2D42VA2, MXZ-2F42VF3

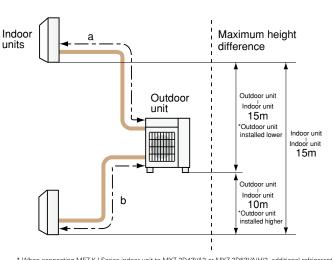
| Maximum Piping Length            |     |  |  |  |
|----------------------------------|-----|--|--|--|
| Outdoor unit - Indoor unit (a,b) | 20m |  |  |  |
| Total length (a+b)               | 30m |  |  |  |

| Maximum Number of Bends          |    |
|----------------------------------|----|
| Outdoor unit - Indoor unit (a,b) | 20 |
| Total number (a+b)               | 30 |

#### MXZ-2D53VA(H)2, MXZ-2E53VAHZ, MXZ-2F53VF(H)3

| Maximum Piping Length                |     |  |  |  |
|--------------------------------------|-----|--|--|--|
| Outdoor unit - Indoor unit (a,b) 20m |     |  |  |  |
| Total length (a+b)                   | 30m |  |  |  |

| Maximum Number of Bends          |    |
|----------------------------------|----|
| Outdoor unit - Indoor unit (a,b) | 20 |
| Total number (a+b)               | 30 |



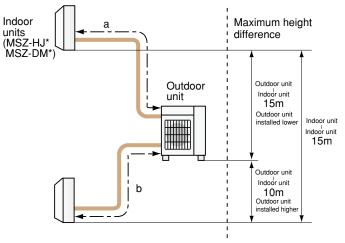
\* When connecting MFZ-KJ Series indoor unit to MXZ-2D42VA2 or MXZ-2D53VA(H)2, additional refrigerant is required. For details, please contact Mitsubishi Electric.

#### **MXZ** SERIES

#### MXZ-2DM40VA, MXZ-2HA40VF, MXZ-2HA50VF

| Maximum Piping Length            |     |
|----------------------------------|-----|
| Outdoor unit - Indoor unit (a,b) | 20m |
| Total length (a+b)               | 30m |

| Maximum Number of Bends          |    |
|----------------------------------|----|
| Outdoor unit - Indoor unit (a,b) | 20 |
| Total number (a+b)               | 30 |

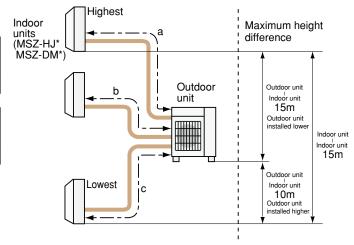


\*Only MSZ-HJ and DM model is connectable.

#### MXZ-3DM50VA, MXZ-3HA50VF

| Maximum Piping Length              |     |
|------------------------------------|-----|
| Outdoor unit - Indoor unit (a,b,c) | 25m |
| Total length (a+b+c)               | 50m |

| Maximum Number of Bends            |    |
|------------------------------------|----|
| Outdoor unit - Indoor unit (a,b,c) | 25 |
| Total number (a+b+c)               | 50 |



\*Only MSZ-HJ and DM model is connectable.

#### MXZ-4E72VA, MXZ-4F72VF3

| Maximum Piping Length                |     |
|--------------------------------------|-----|
| Outdoor unit - Indoor unit (a,b,c,d) | 25m |
| Total length (a+b+c+d)               | 60m |

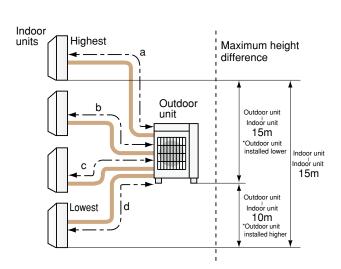
| Maximum Number of Bends              |    |
|--------------------------------------|----|
| Outdoor unit - Indoor unit (a,b,c,d) | 25 |
| Total number (a+b+c+d)               | 60 |

<sup>\*</sup> When connecting MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please contact Mitsubishi Electric.

#### MXZ-4E83VA, MXZ-4E83VAHZ

| Maximum Piping Length                |     |
|--------------------------------------|-----|
| Outdoor unit - Indoor unit (a,b,c,d) | 25m |
| Total length (a+b+c+d)               | 70m |

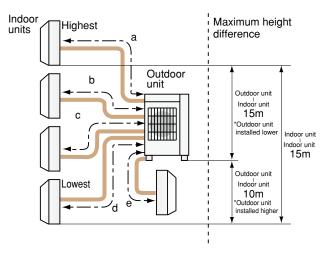
| Maximum Number of Bends              |    |
|--------------------------------------|----|
| Outdoor unit - Indoor unit (a,b,c,d) | 25 |
| Total number (a+b+c+d)               | 70 |



#### MXZ-5E102VA, MXZ-5F102VA

| Maximum Piping Length                  |     |
|--|-----|
| Outdoor unit - Indoor unit (a,b,c,d,e) | 25m |
| Total length (a+b+c+d+e)               | 80m |

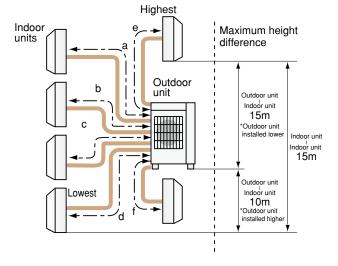
| Maximum Number of Bends                |    |
|--|----|
| Outdoor unit - Indoor unit (a,b,c,d,e) | 25 |
| Total number (a+b+c+d+e)               | 80 |



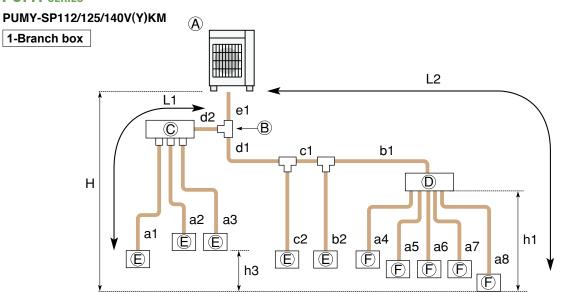
#### MXZ-6D122VA2, MXZ-6F122VF

| Maximum Piping Length                    |     |
|--|-----|
| Outdoor unit - Indoor unit (a,b,c,d,e,f) | 25m |
| Total length (a+b+c+d+e+f)               | 80m |

| Maximum Number of Bends                  |    |
|--|----|
| Outdoor unit - Indoor unit (a,b,c,d,e,f) | 25 |
| Total number (a+b+c+d+e+f)               | 80 |



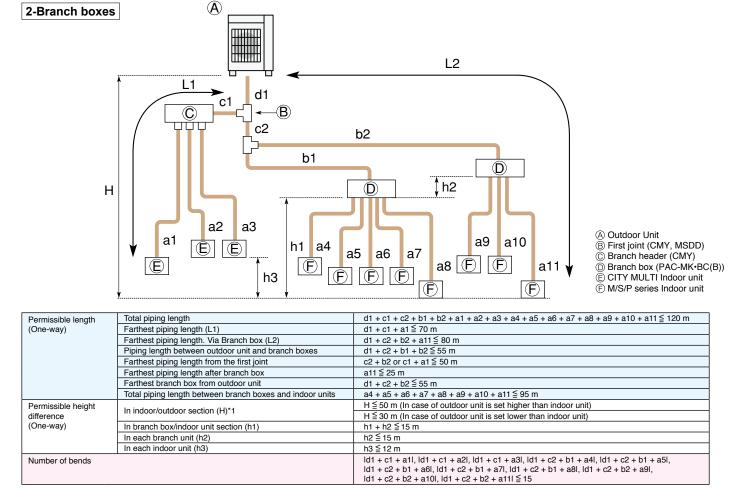
#### **PUMY** SERIES



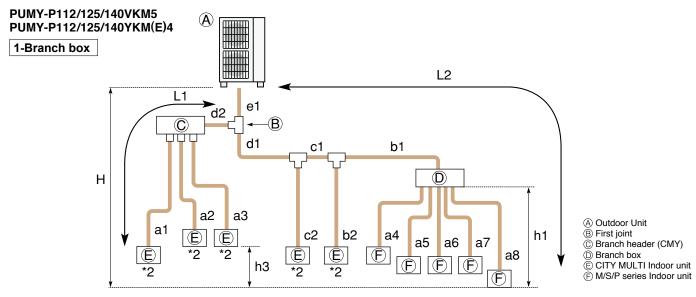
- (A) Outdoor Unit
- B First joint (CMY, MSDD)
- © Branch header (CMY)
- Branch box (PAC-MK•BC(B))
- © CITY MULTI Indoor unit

| Permissible length   | Total piping length                                       | $e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \le 120 \text{ m}$ |  |  |  |  |
|----------------------|---|--|--|--|--|--|
| (One-way)            | Farthest piping length (L1)                               | e1 + d2 + a1 or e1 + d1 + c1 + b2 ≦ 70 m   |  |  |  |  |
|                      | Farthest piping length. Via Branch box (L2)               | e1 + d1 + c1 + b1 + a8 ≦ 50 m  |  |  |  |  |
|                      | Piping length between outdoor unit and branch box         | e1 + d1 + c1 + b1 ≦ 55 m   |  |  |  |  |
|                      | Farthest piping length from the first joint               | d1 + c1 + b1 or d1 + c1 + b2 ≤ 50 m  |  |  |  |  |
|                      | Farthest piping length after branch box                   | a8≦ 25 m   |  |  |  |  |
|                      | Total piping length between branch boxes and indoor units | a4 + a5 + a6 + a7 + a8 ≦ 95 m  |  |  |  |  |
| Permissible height   | 1                   | H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)                            |  |  |  |  |
| difference (One-way) | In indoor/outdoor section (H)*1                           | H ≦ 30 m (In case of outdoor unit is set lower than indoor unit)                             |  |  |  |  |
|                      | In branch box/indoor unit section (h1)                    | h1≦15 m  |  |  |  |  |
|                      | In each indoor unit (h3)                                  | h3≦12 m  |  |  |  |  |
| Number of bends      |   | le1 + d2 + a1l, le1 + d2 + a2l, le1 + d2 + a3l, le1 + d1 + c2l, le1 + d1 + c1 + b2l,         |  |  |  |  |
|                      |   | le1 + d1 + c1 + b1 + a4l, le1 + d1 + c1 + b1 + a5l, le1 + d1 + c1 + b1 + a6l,                |  |  |  |  |
|                      |   | $ e1 + d1 + c1 + b1 + a7 $ , $ e1 + d1 + c1 + b1 + a8  \le 15$                               |  |  |  |  |

\*1: Branch box should be placed within the level between the outdoor unit and indoor units.

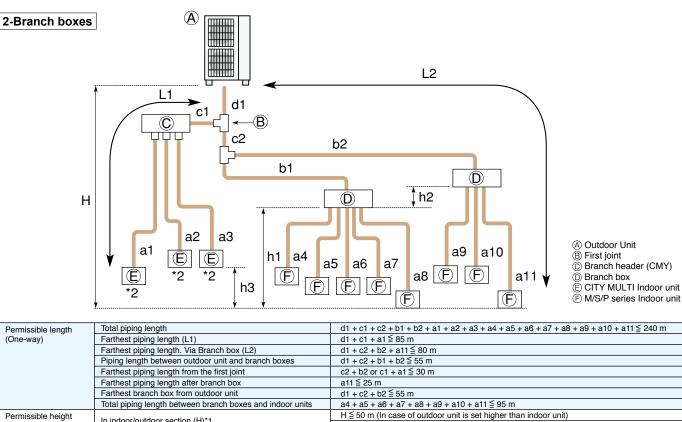


<sup>\*1:</sup> Branch box should be placed within the level between the outdoor unit and indoor units.



| Permissible length   | Total piping length                                       | e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 ≦ 300 m     |  |  |  |  |
|----------------------|---|--|--|--|--|--|
| (One-way)            | Farthest piping length (L1)                               | e1 + d2 + a1 or e1 + d1 + c1 + b2 ≦ 85 m   |  |  |  |  |
|                      | Farthest piping length. Via Branch box (L2)               | e1 + d1 + c1 + b1 + a8 ≦ 80 m  |  |  |  |  |
|                      | Piping length between outdoor unit and branch box         | e1 + d1 + c1 + b1 ≦ 55 m   |  |  |  |  |
|                      | Farthest piping length from the first joint               | d1 + c1 + b1 or d1 + c1 + b2 ≤ 30 m  |  |  |  |  |
|                      | Farthest piping length after branch box                   | a8≦25 m  |  |  |  |  |
|                      | Total piping length between branch boxes and indoor units | a4 + a5 + a6 + a7 + a8 ≦ 95 m  |  |  |  |  |
| Permissible height   | In indoor/outdoor section (H)*1                           | H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)                    |  |  |  |  |
| difference (One-way) |   | H ≤ 40 m (In case of outdoor unit is set lower than indoor unit)                     |  |  |  |  |
|                      | In branch box/indoor unit section (h1)                    | h1 ≦ 15 m  |  |  |  |  |
|                      | In each indoor unit (h3)                                  | h3≦12 m  |  |  |  |  |
| Number of bends      |   | le1 + d2 + a1l, le1 + d2 + a2l, le1 + d2 + a3l, le1 + d1 + c2l, le1 + d1 + c1 + b2l, |  |  |  |  |
|                      |   | le1 + d1 + c1 + b1 + a4l, le1 + d1 + c1 + b1 + a5l, le1 + d1 + c1 + b1 + a6l,        |  |  |  |  |
|                      |   | le1 + d1 + c1 + b1 + a7l, le1 + d1 + c1 + b1 + a8l ≦15                               |  |  |  |  |

- \*1: Branch box should be placed within the level between the outdoor unit and indoor units.
  \*2: PKFY and PFFY Series cannot be connected.



h1 + h2 ≦ 15 m h2 ≦ 15 m

h3 ≦ 12 m

H ≤ 40 m (In case of outdoor unit is set lower than indoor unit)

 $\begin{array}{l} | d1+c1+a1|, | d1+c1+a2|, | d1+c1+a3|, | d1+c2+b1+a4|, | d1+c2+b1+a5|, \\ | d1+c2+b1+a6|, | d1+c2+b1+a7|, | d1+c2+b1+a8|, | d1+c2+b2+a9|, \\ | d1+c2+b2+a10|, | d1+c2+b2+a11| \leqq 15 \\ \end{array}$ 

\*1: Branch box should be placed within the level between the outdoor unit and indoor units.
\*2: PKFY and PFFY Series cannot be connected.

In indoor/outdoor section (H)\*1

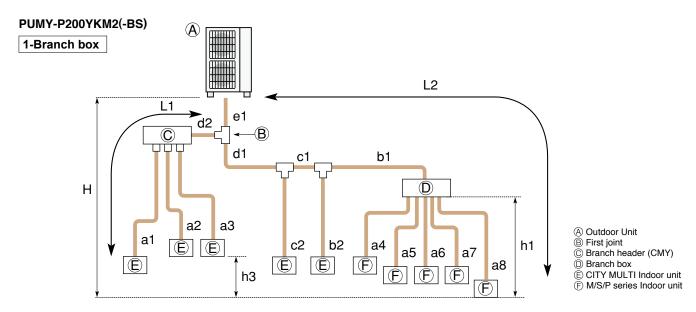
In each branch unit (h2) In each indoor unit (h3)

In branch box/indoor unit section (h1)

difference

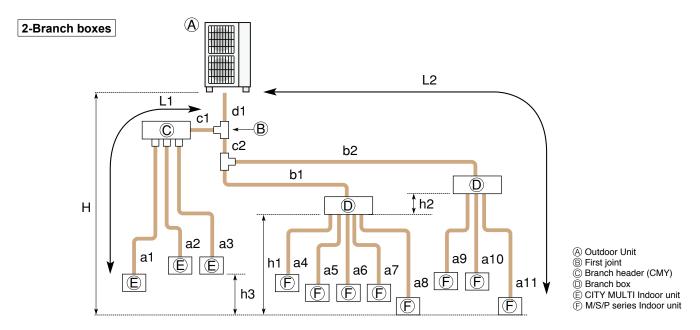
(One-way)

Number of bends



| Permissible length   | Total piping length                                       | e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 ≦ 150 m  |  |  |  |  |
|----------------------|---|---|--|--|--|--|
| (One-way)            | Farthest piping length (L1)                               | e1 + d2 + a1 or e1 + d1 + c1 + b2 ≤ 80 m  |  |  |  |  |
|                      | Farthest piping length. Via Branch box (L2)               | e1 + d1 + c1 + b1 + a8 ≦ 80 m   |  |  |  |  |
|                      | Piping length between outdoor unit and branch box         | e1 + d1 + c1 + b1 ≦ 55 m  |  |  |  |  |
|                      | Farthest piping length from the first joint               | d1 + c1 + b1 or d1 + c1 + b2 ≦ 30 m   |  |  |  |  |
|                      | Farthest piping length after branch box                   | a8≦25 m   |  |  |  |  |
|                      | Total piping length between branch boxes and indoor units | a4 + a5 + a6 + a7 + a8 ≦ 95 m   |  |  |  |  |
| Permissible height   | In indoor/outdoor section (H)*1                           | H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)   |  |  |  |  |
| difference (One-way) | III IIIdooi/outdoor section (H) 1                         | H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)  |  |  |  |  |
|                      | In branch box/indoor unit section (h1)                    | h1 ≦ 15 m   |  |  |  |  |
|                      | In each indoor unit (h3)                                  | h3≦12 m   |  |  |  |  |
| Number of bends      |   | le1 + d2 + a1 , le1 + d2 + a2 , le1 + d2 + a3 , le1 + d1 + c2 , le1 + d1 + c1 + b2 ,<br>  le1 + d1 + c1 + b1 + a4 , le1 + d1 + c1 + b1 + a5 , le1 + d1 + c1 + b1 + a6 ,<br>  le1 + d1 + c1 + b1 + a7 , le1 + d1 + c1 + b1 + a8  $\leq$ 15 |  |  |  |  |

<sup>\*1:</sup> Branch box should be placed within the level between the outdoor unit and indoor units.



| Permissible length | Total piping length                                       | $d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 150 \text{ m}$ |  |  |  |  |
|--------------------|---|---|--|--|--|--|
| (One-way)          | Farthest piping length (L1)                               | d1 + c1 + a1 ≦ 80 m   |  |  |  |  |
|                    | Farthest piping length. Via Branch box (L2)               | d1 + c2 + b2 + a11 ≦ 80 m   |  |  |  |  |
|                    | Piping length between outdoor unit and branch boxes       | d1 + c2 + b1 + b2 ≦ 55 m  |  |  |  |  |
|                    | Farthest piping length from the first joint               | c2 + b2 or c1 + a1 ≦ 30 m   |  |  |  |  |
|                    | Farthest piping length after branch box                   | a11 ≦ 25 m  |  |  |  |  |
|                    | Farthest branch box from outdoor unit                     | d1 + c2 + b2 ≦ 55 m   |  |  |  |  |
|                    | Total piping length between branch boxes and indoor units | a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 95 m  |  |  |  |  |
| Permissible height | In indeer/outdeer ceetien // I\*1                         | H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)                                   |  |  |  |  |
| difference         | In indoor/outdoor section (H)*1                           | H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)                                    |  |  |  |  |
| (One-way)          | In branch box/indoor unit section (h1)                    | h1 + h2 ≦ 15 m  |  |  |  |  |
|                    | In each branch unit (h2)                                  | h2 ≦ 15 m   |  |  |  |  |
|                    | In each indoor unit (h3)                                  | h3 ≦ 12 m   |  |  |  |  |
| Number of bends    |   | ld1 + c1 + a1l, ld1 + c1 + a2l, ld1 + c1 + a3l, ld1 + c2 + b1 + a4l, ld1 + c2 + b1 + a5l,           |  |  |  |  |
|                    |   | ld1 + c2 + b1 + a6l, ld1 + c2 + b1 + a7l, ld1 + c2 + b1 + a8l, ld1 + c2 + b2 + a9l,                 |  |  |  |  |
|                    |   | $ d1 + c2 + b2 + a10 $ , $ d1 + c2 + b2 + a11  \le 15$  |  |  |  |  |

<sup>\*1:</sup> Branch box should be placed within the level between the outdoor unit and indoor units.

#### **Explanation of Terminology**

#### Maximum piping length:

This is the maximum allowable length of the refrigerant piping. The amount of refrigerant pipe used cannot be longer than the length specified.

#### Total length:

The maximum allowable combined length of all the refrigerant piping between the outdoor unit and indoor unit(s).

#### **Outdoor Unit - Indoor Unit:**

The maximum allowable length of the refrigerant piping between the outdoor unit and indoor units installed when multiple units are connected to a single outdoor unit. This distance limitation refers to the maximum length between the outdoor unit and the farthest indoor unit.

#### Pipe length difference from distribution pipe:

The maximum allowable difference in refrigerant piping length from the distribution pipe to the farthest indoor unit and from the distribution pipe to the closest indoor unit when multiple indoor units are connected to a single outdoor unit using a distribution pipe.

#### Indoor Unit - Distribution Pipe:

The maximum allowable length of the refrigerant piping between indoor units and the distribution pipe when multiple indoor units are connected to a single outdoor unit.

#### Maximum height difference:

This is the maximum allowable height difference. It is necessary to install the air conditioning system so that the height distance is no more than the difference specified. (Specified differences may vary if the outdoor unit is installed higher or lower than the indoor units).

#### **Outdoor unit - Indoor unit:**

The maximum allowable difference in height between the outdoor unit and indoor units when installed (when multiple indoor units are connected to a single outdoor unit, this distance limitation refers to the maximum height difference between the outdoor unit and an indoor unit).

#### Indoor unit - Indoor unit

The maximum allowable difference between the heights of indoor units when multiple indoor units are connected to a single outdoor unit.

#### Maximum number of bends:

This is the maximum allowable number of bends in the refrigerant piping. The total number of bends in the refrigerant piping used cannot exceed the number specified.

#### Total number:

The maximum allowable number of bends for all refrigerant piping between the outdoor unit and indoor units.

#### **Outdoor unit - Indoor unit:**

The maximum allowable number of bends between the outdoor unit and each indoor unit when multiple indoor units are connected to a single outdoor unit.

#### Conditions for specifications

Temperature conditions are based on JIS B8616.

| Cooling | Indoor  | 27°C DB, 19°C WB |
|---------|---------|------------------|
| Cooling | Outdoor | 35°C DB, 24°C WB |
| Heating | Indoor  | 20°C DB          |
|         | Outdoor | 7°C DB, 6°C WB   |

#### Refrigerant piping length; 5m

The figures for total input are based on the following voltages.

| Series   | Indoor unit           | Outdoor unit  |
|--|-----------------------|---|
| M Series S Series P Series (except for PEA) MXZ Series POWERFUL HEATING Series | -                     | VG,VE,VA,VHA,VKA:230V/Single phase/50Hz<br>YA,YHA,YKA:400V/Three phase/50Hz |
| PEA Series   | 400V/Three phase/50Hz | 400V/Three phase/50Hz   |

#### Sound pressure level

- The sound pressure measurement is conducted in an anechoic chamber.
- The actual sound level depends on the distance from the unit and the acoustic environment.

#### How to read a model name

#### 1) M & S Series

| ., 🔍 | 2 001100   |
|------|--|
| M    | M: M Series S: S Series  |
| S    | "S"= Wall-mounted , "F"= Compact floor-standing , "E"= Compact ceiling-concealed ,   |
| 3    | "L"= 4- or 1-way cassette , "U"= Outdoor unit  |
| Z    | "Z"= Inverter heat pump , "H"= Fixed-speed heat pump , "blank"= Cooling only of Non-inverter , "Y"= Cooling only of inverter |
| _    |  |
| F    | Series   |
| Н    | Generation   |
| 25   | Rated cooling capacity (kW base)   |
| V    | 230V / Single phase / 50Hz   |
|      | "A"= R410A with new A control , "B"= R410A with conventional control ,   |
| Е    | "E"= R410A with new A control & ErP correspondance , "G"=R32 with new A control & ErP correspondance ,                       |
|      | "F"= R32 with new A control  |
|      | "HZ"= Hyper Heating model , "H"= Anti-freeze heater equipped model ,   |
| HZ   | "S"= Silver indoor unit , "W"= White/Natural White indoor unit , "B"= Black/Onyx Black indoor unit ,                         |
|      | "V"= Pearl White indoor unit , "R"= Ruby Red indoor unit   |
|      |  |

#### 2) P Series

| P             | P Series   |
|---------------|--|
| U             | "K"= Wall-mounted , "S"= Floor-standing , "L"= 4-way cassette , "E"= Ceiling-concealed , |
|               | "C"= Ceiling-suspended, "U"= Outdoor unit  |
| Н             | "H"= For heating and cooling   |
| Z             | "Z"= Inverter  |
|               |  |
| ZM/M/ZRP/RP/P | "ZM"= R32 Eco-conscious Power Inverter , "M"= R32 &R410A                                 |
|               | "ZRP"/"RP"= R410A & cleaning-free pipe reuse , "P"=R410A                                 |
| SHW           | "SH"= Powerful heating ZUBADAN , "W"= can be used as air to water application            |
| 71            | Rated cooling capacity (kW base)   |
| V             | "V"= 230V / Single phase / 50Hz , "Y"= 400V / Three phase / 50Hz                         |

#### 3) MXZ Series

Generation
"A"= A control

| •, := :     | 201100   |
|-------------|--|
| М           | M Series   |
| Х           | Multi-system outdoor unit (heat pump)                              |
| Z           | Inverter heat pump   |
| _           |  |
| 4           | Maximum number of connectable indoor units                         |
| D/E/F/HJ/DM | Generation / Type  |
| 72          | Rated cooling capacity (kW base)                                   |
| V           | "V"= 230V / Single phase / 50Hz                                    |
| Α           | "A"= R410A with new A control                                      |
| HZ          | "HZ"= Hyper Heating model , "H"= Anti-freeze heater equipped model |
|             |  |

#### Refrigerant Amount

#### M/S/P/Multi/Zubadan/ATW

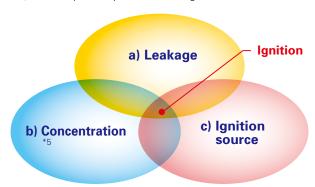
|          |                                | Refrige        | Refrigerant  |              | Pre-charged       |            | Max. added       |  |
|----------|--------------------------------|----------------|--------------|--------------|-------------------|------------|------------------|--|
|          | Model Name                     |                |              | Weight       | CO <sub>2</sub>   | Weight     | CO <sub>2</sub>  |  |
|          |                                |                | GWP          | [kg]         | equivalent<br>[t] | [kg]       | equivaler<br>[t] |  |
|          | MUZ-LN25VG                     | R32            | 675          | 1.00         | 0.68              | 0.26       | 0.18             |  |
|          | MUZ-LN25VG2<br>MUZ-LN35VG      | R32<br>R32     | 675<br>675   | 1.00         | 0.54<br>0.68      | 0.20       | 0.135<br>0.18    |  |
|          | MUZ-LN35VG2                    | R32            | 675          | 0.85         | 0.57              | 0.20       | 0.14             |  |
|          | MUZ-LN50VG                     | R32            | 675          | 1.25         | 0.85              | 0.26       | 0.18             |  |
|          | MUZ-LN50VG2                    | R32            | 675<br>675   | 1.25         | 0.85              | 0.10       | 0.07             |  |
|          | MUZ-LN60VG<br>MUZ-LN25VGHZ     | R32<br>R32     | 675          | 1.45         | 0.98              | 0.46       | 0.32             |  |
|          | MUZ-LN35VGHZ                   | R32            | 675          | 1.00         | 0.68              | 0.26       | 0.18             |  |
|          | MUZ-LN50VGHZ                   | R32            | 675          | 1.45         | 0.98              | 0.46       | 0.32             |  |
|          | MUZ-FT25VGHZ<br>MUZ-FT35VGHZ   | R32<br>R32     | 675<br>675   | 0.85         | 0.58<br>0.65      | 0.25       | 0.17             |  |
|          | MUZ-FT50VGHZ                   | R32            | 675          | 0.95         | 0.65              | 0.45       | 0.31             |  |
|          | MUZ-AP15VG                     | R32            | 675          | 0.49         | 0.34              | 0.26       | 0.18             |  |
|          | MUZ-AP20VG<br>MUZ-AP25VG       | R32<br>R32     | 675<br>675   | 0.55         | 0.37              | 0.26       | 0.18             |  |
|          | MUZ-AP35VG                     | R32            | 675          | 0.55         | 0.37              | 0.26       | 0.18             |  |
|          | MUZ-AP42VG                     | R32            | 675          | 0.70         | 0.47              | 0.26       | 0.18             |  |
|          | MUZ-AP50VG<br>MUZ-AP60VG       | R32<br>R32     | 675<br>675   | 1.00         | 0.68              | 0.26       | 0.18             |  |
|          | MUZ-AP71VG                     | R32            | 675          | 1.50         | 1.02              | 0.30       | 0.20             |  |
|          | MUZ-AP25VGH                    | R32            | 675          | 0.55         | 0.37              | 0.26       | 0.18             |  |
|          | MUZ-AP35VGH                    | R32            | 675<br>675   | 0.55         | 0.37              | 0.26       | 0.18<br>0.18     |  |
|          | MUZ-AP42VGH<br>MUZ-AP50VGH     | R32<br>R32     | 675<br>675   | 1.00         | 0.47              | 0.26       | 0.18             |  |
|          | MUZ-EF25VG(H)                  | R32            | 675          | 0.62         | 0.42              | 0.26       | 0.18             |  |
|          | MUZ-EF35VG(H)                  | R32            | 675          | 0.74         | 0.50              | 0.26       | 0.18             |  |
|          | MUZ-EF42VG<br>MUZ-EF50VG       | R32<br>R32     | 675<br>675   | 0.74<br>1.05 | 0.50<br>0.71      | 0.26       | 0.18             |  |
|          | MUZ-BT20VG                     | R32            | 675          | 0.45         | 0.30              | 0.46       | 0.32             |  |
|          | MUZ-BT25VG                     | R32            | 675          | 0.50         | 0.34              | 0.26       | 0.18             |  |
|          | MUZ-BT35VG<br>MUZ-BT50VG       | R32<br>R32     | 675<br>675   | 0.50         | 0.34              | 0.26       | 0.18             |  |
|          | MUZ-HR25VF                     | R32            | 675          | 0.70         | 0.47              | 0.26       | 0.18             |  |
|          | MUZ-HR35VF                     | R32            | 675          | 0.45         | 0.30              | 0.26       | 0.18             |  |
|          | MUZ-HR42VF                     | R32            | 675<br>675   | 0.70         | 0.47              | 0.26       | 0.18             |  |
|          | MUZ-HR50VF<br>MUZ-HR60VF       | R32<br>R32     | 675          | 1.05         | 0.54              | 0.26       | 0.18             |  |
|          | MUZ-HR71VF                     | R32            | 675          | 1.05         | 0.71              | 0.46       | 0.32             |  |
|          | MUY-TP35VF                     | R410A          | 2088         | 0.85         | 0.57              | 0.13       | 0.09             |  |
|          | MUY-TP50VF<br>MUZ-FH25VE       | R410A<br>R410A | 2088         | 0.85<br>1.15 | 0.57<br>2.41      | 0.13       | 0.09             |  |
|          | MUZ-FH35VE                     | R410A          | 2088         | 1.15         | 2.41              | 0.39       | 0.82             |  |
|          | MUZ-FH50VE                     | R410A          | 2088         | 1.55         | 3.24              | 0.46       | 0.97             |  |
|          | MUZ-FH25VEHZ<br>MUZ-FH35VEHZ   | R410A<br>R410A | 2088         | 1.15         | 2.41              | 0.39       | 0.82             |  |
|          | MUZ-FH50VEHZ                   | R410A          | 2088         | 1.55         | 3.24              | 0.46       | 0.97             |  |
| M-Series | MUZ-SF25VE(H)                  | R410A          | 2088         | 0.70         | 1.47              | 0.39       | 0.82             |  |
|          | MUZ-SF35VE(H)<br>MUZ-SF42VE(H) | R410A<br>R410A | 2088         | 0.80         | 1.68              | 0.39       | 0.82             |  |
|          | MUZ-SF50VE(H)                  | R410A          | 2088         | 1.15         | 3.24              | 0.39       | 0.82             |  |
|          | MUZ-GF60VE                     | R410A          | 2088         | 1.55         | 3.24              | 0.40       | 0.84             |  |
|          | MUZ-GF71VE                     | R410A          | 2088         | 1.90         | 3.97<br>1.47      | 1.10       | 2.30             |  |
|          | MUZ-WN25VA<br>MUZ-WN35VA       | R410A<br>R410A | 2088         | 0.70         | 1.47              | 0.26       | 0.55<br>0.55     |  |
|          | MUZ-DM25VA                     | R410A          | 2088         | 0.70         | 1.47              | 0.26       | 0.55             |  |
|          | MUZ-DM35VA                     | R410A          | 2088         | 0.72         | 1.51              | 0.26       | 0.55             |  |
|          | MUZ-HJ25VA<br>MUZ-HJ35VA       | R410A<br>R410A | 2088<br>2088 | 0.70         | 1.47<br>1.51      | 0.26       | 0.55<br>0.55     |  |
|          | MUZ-HJ35VA<br>MUZ-HJ50VA       | R410A<br>R410A | 2088         | 1.15         | 2.41              | 0.26       | 0.55             |  |
|          | MUZ-HJ60VA                     | R410A          | 2088         | 1.80         | 3.76              | 0.46       | 0.97             |  |
|          | MUZ-HJ71VA                     | R410A          | 2088         | 1.80         | 3.76              | 0.46       | 0.97             |  |
|          | MUFZ-KJ25VE<br>MUFZ-KJ35VE     | R410A<br>R410A | 2088         | 1,1          | 2.30              | 0.39       | 0.82             |  |
|          | MUFZ-KJ50VE                    | R410A          | 2088         | 1.50         | 3.14              | 0.46       | 0.97             |  |
|          | MUFZ-KJ25VEHZ                  | R410A          | 2088         | 1,1          | 2.30              | 0.39       | 0.82             |  |
|          | MUFZ-KJ35VEHZ<br>MUFZ-KJ50VEHZ | R410A<br>R410A | 2088         | 1,1          | 2.30<br>3.14      | 0.39       | 0.82             |  |
|          | MXZ-2D33VA                     | R410A          | 2088         | 1.15         | 2.72              | 0.0        | 0.00             |  |
|          | MXZ-2D42VA2                    | R410A          | 2088         | 1.3          | 2.72              | 0.2        | 0.42             |  |
|          | MXZ-2D53VA(H)2<br>MXZ-3E54VA   | R410A<br>R410A | 2088         | 1.3<br>2.7   | 2.72<br>5.64      | 0.2        | 0.42             |  |
|          | MXZ-3E68VA                     | R410A<br>R410A | 2088         | 2.7          | 5.64              | 0.2        | 0.42             |  |
|          | MXZ-4E72VA                     | R410A          | 2088         | 2.7          | 5.64              | 0.4        | 0.84             |  |
|          | MXZ-4E83VA                     | R410A          | 2088         | 2.99         | 6.25              | 0.9        | 1.88             |  |
|          | MXZ-5E102VA<br>MXZ-6D122VA     | R410A<br>R410A | 2088         | 2.99<br>4.0  | 6.25<br>8.36      | 1.6        | 3.35<br>2.09     |  |
|          | MXZ-2F33VF3                    | R32            | 675          | 0.8          | 0.54              | 0.8        | 0.54             |  |
|          | MXZ-2F42VF3                    | R32            | 675          | 1.0          | 0.675             | 1.0        | 0.675            |  |
|          | MXZ-2F53VF(H)3<br>MXZ-3F54VF3  | R32<br>R32     | 675<br>675   | 1.0<br>2.4   | 0.675<br>1.62     | 1.0<br>2.4 | 0.675<br>1.62    |  |
|          | MXZ-3F68VF3                    | R32            | 675          | 2.4          | 1.62              | 2.4        | 1.62             |  |
|          | MXZ-4F72VF3                    | R32            | 675          | 2.4          | 1.62              | 2.4        | 1.62             |  |
|          | MXZ-4F80VF3                    | R32            | 675          | 2.4          | 1.62              | 2.4        | 1.62             |  |
|          | MXZ-4F83VF<br>MXZ-5F102VF      | R32<br>R32     | 675<br>675   | 2.4          | 1.62<br>1.62      | 2.4        | 1.62<br>1.62     |  |
|          | MXZ-6F122VF                    | R32            | 675          | 2.4          | 1.62              | 2.4        | 1.62             |  |
|          | MXZ-2F53VFHZ                   | R32            | 675          | 2.4          | 1.62              | 2.4        | 1.62             |  |
|          | MXZ-4F83VFHZ<br>MXZ-2E53VAHZ   | R32<br>R410A   | 675<br>2088  | 2.4          | 1.62<br>4.18      | 0.2        | 1.62<br>0.42     |  |
|          | MXZ-4E83VAHZ                   | R410A<br>R410A | 2088         | 3.9          | 8.15              | 0.2        | 1.88             |  |
|          | MXZ-2DM40VA                    | R410A          | 2088         | 0.95         | 1.99              | 0.2        | 0.42             |  |
|          | MXZ-3DM50VA                    | R410A          | 2088         | 2.7          | 5.64              | 0.2        | 0.42             |  |
|          | MXZ-2HA40VF<br>MXZ-2HA50VF     | R32<br>R32     | 675<br>675   | 0.9          | 0.61              | 0.9        | 0.61             |  |
|          | MXZ-2HA50VF<br>MXZ-3HA50VF     | R32            | 675          | 1.4          | 0.95              | 1.6        | 1.08             |  |

|                 |  | Pofrin   | orant   | Pre-  | charged  | Max   | k. added   |
|-----------------|--|--|---|---|--|---|--|
|                 | Model Name   | Refrige  | erant   | qu  | uantity<br>CO <sub>2</sub>   | qu  | uantity<br>CO <sub>2</sub>   |
|                 |  |  | GWP   | Weight [kg]   | equivalent   | Weight [kg]   | equivalent   |
|                 | SUZ-M25VA  | R32  | 675   | 0.65  | [t]<br>0.44  | 0.91  | (t)<br>0.61  |
|                 | SUZ-M35VA  | R33  | 675   | 0.90  | 0.61   | 1.16  | 0.78   |
|                 | SUZ-M50VA  | R34  | 675   | 1.20  | 0.81   | 1.66  | 1.12   |
|                 | SUZ-M60VA<br>SUZ-M71VA   | R35<br>R36   | 675<br>675  | 1.25  | 0.84   | 1.71<br>2.37  | 1.15<br>1.60   |
| S-Series        | SUZ-KA25VA6  | R410A  | 2088  | 0.80  | 1.68   | 0.39  | 0.82   |
|                 | SUZ-KA35VA6  | R410A  | 2088  | 1.15  | 2.41   | 0.39  | 0.82   |
| -               | SUZ-KA50VA6<br>SUZ-KA60VA6   | R410A<br>R410A   | 2088  | 1.60  | 3.35<br>3.35   | 0.46  | 0.97   |
|                 | SUZ-KA71VA6  | R410A  | 2088  | 1.80  | 3.76   | 1.265   | 2.65   |
|                 | PUZ-ZM35VKA  | R32  | 675   | 2.0   | 1.35   | 0.3   | 0.20   |
|                 | PUZ-ZM50VKA<br>PUZ-ZM60VHA   | R32  | 675<br>675  | 2.0   | 1.35<br>1.89   | 0.3   | 0.20   |
| -               | PUZ-ZM71VHA  | R32  | 675   | 2.8   | 1.89   | 0.8   | 0.54   |
|                 | PUZ-ZM100VKA   | R32  | 675   | 4.0   | 2.70   | 2.8   | 1.89   |
|                 | PUZ-ZM100YKA   | R32  | 675   | 4.0   | 2.70   | 2.8   | 1.89   |
|                 | PUZ-ZM125VKA<br>PUZ-ZM125YKA   | R32  | 675<br>675  | 4.0<br>4.0  | 2.70   | 2.8   | 1.89   |
|                 | PUZ-ZM140VKA   | R32  | 675   | 4.0   | 2.70   | 2.8   | 1.89   |
|                 | PUZ-ZM140YKA   | R32  | 675   | 4.0   | 2.70   | 2.8   | 1.89   |
|                 | PUZ-ZM200YKA<br>PUZ-ZM250YKA   | R32  | 675<br>675  | 6.3<br>6.8  | 4.25<br>4.59   | 9.2   | 6.21   |
|                 | PUHZ-ZRP35VKA2   | R410A  | 2088  | 2.2   | 4.60   | 0.4   | 0.84   |
|                 | PUHZ-ZRP50VKA2   | R410A  | 2088  | 2.4   | 5.02   | 0.4   | 0.84   |
|                 | PUHZ-ZRP60VHA2   | R410A  | 2088  | 3.5   | 7.31   | 1.2   | 2.51   |
|                 | PUHZ-ZRP71VHA2<br>PUHZ-ZRP100VKA3  | R410A<br>R410A   | 2088  | 3.5<br>5.0  | 7.31   | 1.2<br>2.4  | 2.51<br>5.02   |
|                 | PUHZ-ZRP100YKA3  | R410A  | 2088  | 5.0   | 10.44  | 2.4   | 5.02   |
|                 | PUHZ-ZRP125VKA3  | R410A  | 2088  | 5.0   | 10.44  | 2.4   | 5.02   |
|                 | PUHZ-ZRP125YKA3<br>PUHZ-ZRP140VKA3   | R410A<br>R410A   | 2088  | 5.0<br>5.0  | 10.44  | 2.4   | 5.02   |
|                 | PUHZ-ZRP140YKA3  | R410A  | 2088  | 5.0   | 10.44  | 2.4   | 5.02   |
| P-Series        | PUHZ-ZRP200YKA3  | R410A  | 2088  | 7.1   | 14.83  | 3.6   | 7.52   |
|                 | PUHZ-ZRP250YKA3  | R410A  | 2088  | 7.7   | 16.08  | 4.8   | 10.03  |
| -               | PUZ-M100VKA<br>PUZ-M100YKA   | R32  | 675<br>675  | 3.1   | 2.09   | 4.1   | 2.77   |
|                 | PUZ-M125VKA  | R32  | 675   | 3.6   | 2.43   | 5.0   | 3.38   |
|                 | PUZ-M125YKA  | R32  | 675   | 3.6   | 2.43   | 5.0   | 3.38   |
| -               | PUZ-M140VKA  | R32  | 675   | 3.6   | 2.43   | 5.0   | 3.38   |
|                 | PUZ-M140YKA<br>PUZ-M200YKA   | R32  | 675<br>675  | 3.6<br>5.6  | 2.43<br>3.78   | 5.0<br>7.2  | 3.38<br>4.86   |
|                 | PUZ-M250YKA  | R32  | 675   | 6.8   | 4.59   | 9.2   | 6.21   |
|                 | PUHZ-P100VKA   | R410A  | 2088  | 3.3   | 6.89   | 1.2   | 2.51   |
|                 | PUHZ-P100YKA<br>PUHZ-P125VKA   | R410A<br>R410A   | 2088  | 3.3   | 6.89<br>7.93   | 1.2   | 2.51   |
|                 | PUHZ-P125YKA   | R410A  | 2088  | 3.8   | 7.93   | 1.2   | 2.51   |
|                 | PUHZ-P140VKA   | R410A  | 2088  | 3.8   | 7.93   | 1.2   | 2.51   |
|                 | PUHZ-P140YKA   | R410A  | 2088  | 3.8   | 7.93   | 1.2   | 2.51   |
|                 | PUHZ-P200YKA3<br>PUHZ-P250YKA3   | R410A<br>R410A   | 2088  | 6.5<br>7.7  | 13.58<br>16.08   | 3.6<br>4.8  | 7.52   |
|                 | PUHZ-SHW112VHA   | R410A  | 2088  | 5.5   | 11.49  | 2.4   | 5.02   |
|                 | PUHZ-SHW112YHA   | R410A  | 2088  | 5.5   | 11.49  | 2.4   | 5.02   |
|                 | PUHZ-SHW140VHA<br>PUHZ-SHW140YHA   | R410A<br>R410A   | 2088  | 5.5<br>5.5  | 11.49  | 2.4   | 5.02   |
|                 | PUHZ-FRP71VHA  | R410A  | 2088  | 3.8   | 7.94   | 1.8   | 3.76   |
|                 | PUMY-SP112VKM(-BS)   | R410A  | 2088  | 3.5   | 7.31   | 9.0   | 18.79  |
|                 | PUMY-SP112YKM(-BS)   | R410A  | 2088  | 3.5   | 7.31   | 9.0   | 18.79  |
|                 | PUMY-SP125VKM(-BS)<br>PUMY-SP125YKM(-BS)   | R410A<br>R410A   | 2088  | 3.5<br>3.5  | 7.31<br>7.31   | 9.0   | 18.79<br>18.79   |
|                 | PUMY-SP125YRM(-BS)   | R410A  | 2088  | 3.5   | 7.31   | 9.0   | 18.79  |
|                 | PUMY-SP140YKM(-BS)   | R410A  | 2088  | 3.5   | 7.31   | 9.0   | 18.79  |
| PUMY            | PUMY-P112VKM5(-BS)   | R410A  | 2088  | 4.8   | 10.02  | 13.8  | 28.81  |
|                 | PUMY-P125VKM5(-BS)<br>PUMY-P140VKM5(-BS)   | R410A<br>R410A   | 2088  | 4.8<br>4.8  | 10.02<br>10.02   | 13.8<br>13.8  | 28.81  |
|                 | PUMY-P112YKM(E)4(-BS)  | R410A  | 2088  | 4.8   | 10.02  | 13.8  | 28.81  |
|                 | PUMY-P125YKM(E)4(-BS)  | R410A  | 2088  | 4.8   | 10.02  | 13.8  | 28.81  |
|                 | PUMY-P140YKM(E)4(-BS)  | R410A  | 2088  | 4.8   | 10.02<br>15.24   | 13.8  | 28.81<br>27.35   |
|                 | PUMY-P200YKM2 (-BS)<br>PUZ-WM50VHA   | R410A<br>R32   | 675   | 7.3<br>2.0  | 15.24  | 13.1  | 27.35  |
| ATD 6 /         | PUZ-WM60VAA  | R32  | 675   | 2.2   | 1.49   | -   | -  |
| ATW<br>Packaged | PUZ-WM85V/YAA  | R32  | 675   | 2.2   | 1.49   | -   | -  |
|                 | PUZ-WM112V/YAA<br>PUZ-HWM140V/YHA  | R32  | 675<br>675  | 3.0   | 2.03<br>2.2275   | -   | -  |
|                 |  | R32  | 675   | 1.2   | 0.81   | 0.4   | 0.27   |
|                 | SUZ-SWM40VA  |  |   |   | 0.81   | 0.4   | 0.27   |
|                 | SUZ-SWM60VA  | R32  | 675   | 1.2   |  |   |  |
|                 | SUZ-SWM60VA<br>SUZ-SWM80VA   | R32  | 675   | 1.2   | 0.81   | 0.4   | 0.27   |
|                 | SUZ-SWM60VA<br>SUZ-SWM80VA<br>PUD-SWM60VAA   | R32<br>R32   | 675<br>675  | 1.2<br>1.3  | 0.81<br>0.8775   | 0.3   | 0.20   |
|                 | SUZ-SWM60VA<br>SUZ-SWM80VA   | R32  | 675   | 1.2   | 0.81   |   |  |
|                 | SUZ-SWM60VA<br>SUZ-SWM80VA<br>PUD-SWM60VAA<br>PUD-SWM80V/YAA<br>PUD-SWM100V/YAA<br>PUD-SWM120V/YAA   | R32<br>R32<br>R32<br>R32<br>R32  | 675<br>675<br>675<br>675<br>675   | 1.2<br>1.3<br>1.3<br>1.6<br>1.6   | 0.81<br>0.8775<br>0.8775<br>1.08<br>1.08   | 0.3<br>0.3<br>0.23<br>0.23  | 0.20<br>0.20<br>0.16<br>0.16   |
|                 | SUZ-SWM60VA SUZ-SWM80VA PUD-SWM60VAA PUD-SWM100V/YAA PUD-SWM1100V/YAA PUD-SWM120V/YAA PUD-SHWM60VAA  | R32<br>R32<br>R32<br>R32<br>R32<br>R32   | 675<br>675<br>675<br>675<br>675<br>675  | 1.2<br>1.3<br>1.3<br>1.6<br>1.6<br>1.4  | 0.81<br>0.8775<br>0.8775<br>1.08<br>1.08<br>0.945  | 0.3<br>0.3<br>0.23<br>0.23<br>0.3   | 0.20<br>0.20<br>0.16<br>0.16<br>0.20   |
|                 | SUZ-SWM60VA SUZ-SWM80VA PUD-SWM60VAA PUD-SWM80V/YAA PUD-SWM100V/YAA PUD-SWM120V/YAA PUD-SHWM60VAA PUD-SHWM60VAA  | R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32  | 675<br>675<br>675<br>675<br>675<br>675<br>675   | 1.2<br>1.3<br>1.3<br>1.6<br>1.6<br>1.4<br>1.4   | 0.81<br>0.8775<br>0.8775<br>1.08<br>1.08<br>0.945  | 0.3<br>0.3<br>0.23<br>0.23<br>0.3<br>0.3  | 0.20<br>0.20<br>0.16<br>0.16<br>0.20<br>0.20   |
| ATW<br>Split    | SUZ-SWM60VA SUZ-SWM80VA PUD-SWM60VAA PUD-SWM100V/YAA PUD-SWM1100V/YAA PUD-SWM120V/YAA PUD-SHWM60VAA  | R32<br>R32<br>R32<br>R32<br>R32<br>R32   | 675<br>675<br>675<br>675<br>675<br>675  | 1.2<br>1.3<br>1.3<br>1.6<br>1.6<br>1.4  | 0.81<br>0.8775<br>0.8775<br>1.08<br>1.08<br>0.945  | 0.3<br>0.3<br>0.23<br>0.23<br>0.3   | 0.20<br>0.20<br>0.16<br>0.16<br>0.20   |
| ATW<br>Split    | SUZ-SWM60VA SUZ-SWM80VA PUD-SWM60VAA PUD-SWM100V/AA PUD-SWM100V/AA PUD-SWM100V/AA PUD-SHWM60VAA PUD-SHWM60VAA PUD-SHWM100V/AA PUD-SHWM100V/AA PUD-SHWM120V/YAA PUD-SHWM120V/YAA  | R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32                                       | 675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>675   | 1.2<br>1.3<br>1.6<br>1.6<br>1.4<br>1.4<br>1.7<br>1.7                                    | 0.81<br>0.8775<br>0.8775<br>1.08<br>1.08<br>0.945<br>0.945<br>1.1475<br>1.1475   | 0.3<br>0.23<br>0.23<br>0.23<br>0.3<br>0.3<br>0.13<br>0.13                                   | 0.20<br>0.20<br>0.16<br>0.16<br>0.20<br>0.20<br>0.20<br>0.09<br>0.09   |
|                 | SUZ-SWM60VA SUZ-SWM80VA PUD-SWM60VAA PUD-SWM80V/YAA PUD-SWM100V/YAA PUD-SHWM60VAA PUD-SHWM60VAA PUD-SHWM80V/YAA PUD-SHWM100V/YAA PUD-SHWM100V/YAA PUD-SHWM100V/YAA PUD-SHWM140V/YAA PUD-SHWM140V/YAA PUD-SHWM140V/YAA  | R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32                                       | 675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>675  | 1.2<br>1.3<br>1.6<br>1.6<br>1.4<br>1.7<br>1.7<br>1.7                                    | 0.81<br>0.8775<br>0.8775<br>1.08<br>1.08<br>0.945<br>0.945<br>1.1475<br>1.1475<br>1.1475<br>6.27   | 0.3<br>0.23<br>0.23<br>0.3<br>0.3<br>0.3<br>0.13<br>0.13<br>0.13<br>1.8                     | 0.20<br>0.20<br>0.16<br>0.16<br>0.20<br>0.20<br>0.09<br>0.09<br>0.09<br>3.76   |
|                 | SUZ-SWM60VA SUZ-SWM80VA PUD-SWM60VAA PUD-SWM100V/YAA PUD-SWM100V/YAA PUD-SWM120V/YAA PUD-SHWM60VAA PUD-SHWM80V/YAA PUD-SHWM100V/YAA PUD-SHWM100V/YAA PUD-SHWM100V/YAA PUD-SHWM120V/YAA PUD-SHWM140V/YAA PUD-SHWM140V/YAA PUHZ-SW75V/YAA PUHZ-SW75V/YAA   | R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32                                       | 675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>2088<br>2088   | 1.2<br>1.3<br>1.6<br>1.6<br>1.4<br>1.4<br>1.7<br>1.7<br>1.7<br>3.0                      | 0.81<br>0.8775<br>0.8775<br>1.08<br>1.08<br>0.945<br>0.945<br>1.1475<br>1.1475<br>1.1475<br>6.27<br>8.77   | 0.3<br>0.3<br>0.23<br>0.23<br>0.3<br>0.13<br>0.13<br>0.13<br>1.8<br>1.6                     | 0.20<br>0.20<br>0.16<br>0.16<br>0.20<br>0.20<br>0.09<br>0.09<br>0.09<br>3.76<br>3.76                                 |
|                 | SUZ-SWM60VA SUZ-SWM80VA PUD-SWM60VAA PUD-SWM80V/YAA PUD-SWM100V/YAA PUD-SHWM60VAA PUD-SHWM60VAA PUD-SHWM80V/YAA PUD-SHWM100V/YAA PUD-SHWM100V/YAA PUD-SHWM100V/YAA PUD-SHWM140V/YAA PUD-SHWM140V/YAA PUD-SHWM140V/YAA  | R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32                                       | 675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>2088<br>2088   | 1.2<br>1.3<br>1.6<br>1.6<br>1.4<br>1.7<br>1.7<br>1.7                                    | 0.81<br>0.8775<br>0.8775<br>1.08<br>1.08<br>0.945<br>0.945<br>1.1475<br>1.1475<br>1.1475<br>6.27   | 0.3<br>0.23<br>0.23<br>0.3<br>0.3<br>0.3<br>0.13<br>0.13<br>0.13<br>1.8                     | 0.20<br>0.20<br>0.16<br>0.16<br>0.20<br>0.20<br>0.09<br>0.09<br>0.09<br>3.76   |
|                 | SUZ-SWM60VA SUZ-SWM80VA PUD-SWM60VAA PUD-SWM80V/YAA PUD-SWM100V/YAA PUD-SHWM120V/YAA PUD-SHWM60VAA PUD-SHWM100V/YAA PUD-SHWM120V/YAA PUD-SHWM120V/YAA PUD-SHWM120V/YAA PUD-SHWM120V/YAA PUD-SHWM120V/YAA PUHZ-SW75V/YAA PUHZ-SW100V/YAA PUHZ-SW100V/YAA PUHZ-SW100V/YAA PUHZ-SW100V/YAA PUHZ-SW100V/YAA PUHZ-SW100V/YAA                          | R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R410A<br>R410A<br>R410A                   | 675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>2088<br>2088<br>2088<br>2088                         | 1.2<br>1.3<br>1.6<br>1.6<br>1.4<br>1.7<br>1.7<br>1.7<br>3.0<br>4.2<br>4.6<br>7.1        | 0.81<br>0.8775<br>0.8775<br>1.08<br>1.08<br>0.945<br>0.945<br>1.1475<br>1.1475<br>1.1475<br>6.27<br>8.77<br>9.61<br>14.83<br>16.08   | 0.3<br>0.23<br>0.23<br>0.3<br>0.3<br>0.3<br>0.13<br>0.13<br>1.8<br>1.6<br>2.9<br>4.0<br>5.2 | 0.20<br>0.20<br>0.16<br>0.16<br>0.20<br>0.20<br>0.09<br>0.09<br>0.09<br>3.76<br>6.06<br>8.36<br>8.36                 |
|                 | SUZ-SWM60VA SUZ-SWM80VA PUD-SWM80VAA PUD-SWM100V/AA PUD-SWM100V/AA PUD-SWM100V/AA PUD-SHWM60VAA PUD-SHWM60VAA PUD-SHWM100V/AA PUD-SHWM100V/AA PUD-SHWM100V/AA PUD-SHWM120V/YAA PUD-SHWM120V/YAA PUD-SHWM120V/YAA PUD-SHWM120V/YAA PUHZ-SW750V/YAA PUHZ-SW160V/YAA PUHZ-SW160V/YAA PUHZ-SW160YKA PUHZ-SW100V/YAA                                  | R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R410A<br>R410A<br>R410A<br>R410A<br>R410A | 675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>2088<br>2088<br>2088<br>2088<br>2088                 | 1.2<br>1.3<br>1.6<br>1.6<br>1.4<br>1.7<br>1.7<br>1.7<br>3.0<br>4.2<br>4.6<br>7.1<br>7.7 | 0.81<br>0.8775<br>0.8775<br>1.08<br>0.945<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1 | 0.3<br>0.23<br>0.23<br>0.3<br>0.3<br>0.3<br>0.13<br>0.13<br>1.8<br>1.6<br>2.9<br>4.0<br>5.2 | 0.20<br>0.20<br>0.16<br>0.16<br>0.20<br>0.20<br>0.09<br>0.09<br>3.76<br>3.76<br>6.06<br>8.36<br>8.36<br>2.93         |
|                 | SUZ-SWM60VA SUZ-SWM80VA PUD-SWM60VAA PUD-SWM80V/AA PUD-SWM100V/YAA PUD-SWM100V/YAA PUD-SHWM60VAA PUD-SHWM80V/YAA PUD-SHWM100V/YAA PUD-SHWM120V/YAA PUD-SHWM120V/YAA PUD-SHWM120V/YAA PUD-SHWM120V/YAA PUD-SHWM120V/YAA PUD-SWM125WYAA PUHZ-SW100V/YAA PUHZ-SW100V/YAA PUHZ-SW160VKA PUHZ-SW160VKA PUHZ-SW100V/KA PUHZ-SHW80V/YAA PUHZ-SHW80V/YAA | R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32                                       | 675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>2088<br>2088<br>2088<br>2088<br>2088<br>2088<br>2088 | 1.2<br>1.3<br>1.6<br>1.6<br>1.4<br>1.7<br>1.7<br>1.7<br>3.0<br>4.2<br>4.6<br>4.6        | 0.81<br>0.8775<br>0.8775<br>1.08<br>1.08<br>0.945<br>1.1475<br>1.1475<br>1.1475<br>6.27<br>9.61<br>14.83<br>16.08<br>9.61  | 0.3<br>0.3<br>0.23<br>0.23<br>0.3<br>0.13<br>0.13<br>1.8<br>1.6<br>2.9<br>4.0<br>5.2<br>1.4 | 0.20<br>0.20<br>0.16<br>0.16<br>0.20<br>0.20<br>0.09<br>0.09<br>3.76<br>3.76<br>6.06<br>8.36<br>8.36<br>2.93<br>2.93 |
|                 | SUZ-SWM60VA SUZ-SWM80VA PUD-SWM80VAA PUD-SWM100V/AA PUD-SWM100V/AA PUD-SWM100V/AA PUD-SHWM60VAA PUD-SHWM60VAA PUD-SHWM100V/AA PUD-SHWM100V/AA PUD-SHWM100V/AA PUD-SHWM120V/YAA PUD-SHWM120V/YAA PUD-SHWM120V/YAA PUD-SHWM120V/YAA PUHZ-SW750V/YAA PUHZ-SW160V/YAA PUHZ-SW160V/YAA PUHZ-SW160YKA PUHZ-SW100V/YAA                                  | R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R32<br>R410A<br>R410A<br>R410A<br>R410A<br>R410A | 675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>675<br>2088<br>2088<br>2088<br>2088<br>2088<br>2088<br>2088 | 1.2<br>1.3<br>1.6<br>1.6<br>1.4<br>1.7<br>1.7<br>1.7<br>3.0<br>4.2<br>4.6<br>7.1<br>7.7 | 0.81<br>0.8775<br>0.8775<br>1.08<br>0.945<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1475<br>1.1 | 0.3<br>0.23<br>0.23<br>0.3<br>0.3<br>0.3<br>0.13<br>0.13<br>1.8<br>1.6<br>2.9<br>4.0<br>5.2 | 0.20<br>0.20<br>0.16<br>0.16<br>0.20<br>0.20<br>0.09<br>0.09<br>3.76<br>3.76<br>6.06<br>8.36<br>8.36<br>2.93         |

### R32 REFRIGERANT

#### **R32 REFRIGERANT PROPERTIES**

Under the conditions shown below, there is a possibility that R32 could ignite.



|                                    | R32                            | R410A  | R22                      |
|------------------------------------|--------------------------------|--|--------------------------|
| Chemical formula                   | CH <sub>2</sub> F <sub>2</sub> | CH <sub>2</sub> F <sub>2</sub> /CHF <sub>2</sub> CF <sub>3</sub> | CHCIF2                   |
| Composition<br>(blend ratio wt. %) | Single composition             | R32/R125<br>(50/50 wt %)   | Single composition       |
| Ozone depletion potential (ODP)    | 0                              | 0  | 0.055                    |
| Global warming potential (GWP) *1  | 675                            | 2088   | 1810                     |
| LFL(vol.%) *2                      | 13.3                           | _  | _                        |
| UFL(vol.%) *3                      | 29.3                           | _  | _                        |
| Flammability *4                    | Lower flammability (2L)        | No flame propagation (1)   | No flame propagation (1) |

<sup>\*1</sup> IPCC 4th assessment report.

Although R32 is classified as low flammability, the possibility of igniting can be eliminated by ensuring the following three points.

#### a) Do not leak refrigerant.

<Installation> ·Vacuum drying should be done. Air purging is prohibited.

·Follow "4. Installation Points of Refrigerant Piping Work"

<Repair/Relocation/Removal> ·Pump down or recovering refrigerant should be done.

#### b) Prevent concentration.

·Ventilate during installation and servicing, such as open the door or window and use a fan.

·Follow "2. Installation Restrictions".

#### c) Keep ignition source away from the unit.

- Do not braze pipe and unit which contain refrigerant. Before brazing, refrigerant should be recovered.
- Do not install unit while the electricity is turned on. Turn off electricity at the fuse box and check the wiring using a tester.
- Do not smoke when working or during transportation of the product.

Note

Both R32 / R410A emit a toxic gas when coming into contact with an open flame.

<sup>\*2</sup> LFL : Lower flammable limit

<sup>\*3</sup> UFL: Upper flammable limit

<sup>\*4</sup> ISO 817:2014

<sup>\*5</sup> R32 consistency is higher than LFL\*1 and lower than UFL\*2.

#### INSTALLATION RESTRICTIONS

In order to prevent the refrigerant from igniting, use the following instructions during installation.

#### 1) Indoor Units

Install in a room with a floor area of Amin\* or more, corresponding to refrigerant quantity M.

(M = factory-charged refrigerant + locally added refrigerant)

Install the indoor unit so that the height from the floor to the bottom of the indoor unit is hO\*.

\* Refer to table and drawings below

Amin[m²]

1.7

2.0

2.2

2.7

3.0

3.2

3.4

3.7

3.9

4.4

4.6

4.9

#### <M Series> M[ka]

0.7

8.0

0.9

1.2

1.3

1.4

1.5

1.6

1.7 1.8

1.9

2.0

| <p ser<="" th=""><th>ies&gt;</th></p> | ies>     |
|---------------------------------------|----------|
| M[kg]                                 | Amin[m²] |
| 1.0                                   | 4        |
| 1.5                                   | 6        |
| 2.0                                   | 8        |
| 2.5                                   | 10       |
| 3.0                                   | 12       |
| 3.5                                   | 14       |
| 4.0                                   | 16       |
| 4.5                                   | 20       |
| 5.0                                   | 24       |
| 5.5                                   | 29       |
| 6.0                                   | 35       |
| 6.5                                   | 41       |
| 7.0                                   | 47       |
| 7.5                                   | 54       |

<Only for MFZ-KT>

Amin[m²]

3.75

3.95

4.15

4.34

4.54 4.74

M[ka]

1.00

1.50

1.80 1.84

1.90

2.00

2.10

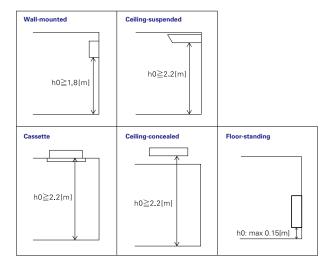
2.20

2.30

2.40

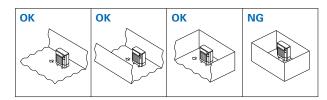
| <ivixz< th=""><th>Series&gt;</th></ivixz<> | Series>  |
|--|----------|
| M[kg]                                      | Amin[m²] |
| 1.0  | 3        |
| 1.5  | 4.5      |
| 2.0  | 6        |
| 2.5  | 7.5      |
| 3.0  | 9        |
| 3.5  | 12       |
| 4.0  | 15.5     |
| 4.5  | 20       |
| 5.0  | 24       |
| 5.5  | 29       |
| 6.0  | 35       |
| 6.5  | 41       |
| 7.0  | 47       |

| 5.5 | 29 |
|-----|----|
| 6.0 | 35 |
| 6.5 | 41 |
| 7.0 | 47 |
| 7.5 | 54 |



#### 2) Outdoor Units

Install outdoor units in a place where at least one of the four sides is open or in a sufficiently large space without depressions.



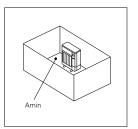
If you unavoidably install a unit in a space where all four sides are blocked or there are depressions, confirm that one of these situations (A, B or C) is satisfied.

#### A Secure sufficient installation space (minimum installation area Amin).

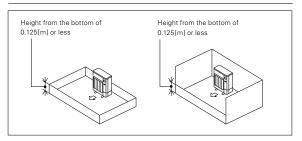
Install in a space with an installation area of Amin\* or more, corresponding to refrigerant quantity M. (M = factory-charged refrigerant + locally added refrigerant)

\* Refer to table and drawings below

| M[kg] | Amin[m²] |
|-------|----------|
| 1.0   | 12       |
| 1.5   | 17       |
| 2.0   | 23       |
| 2.5   | 28       |
| 3.0   | 34       |
| 3.5   | 39       |
| 4.0   | 45       |
| 4.5   | 50       |
| 5.0   | 56       |
| 5.5   | 62       |
| 6.0   | 67       |
| 6.5   | 73       |
| 7.0   | 78       |
| 7.5   | 84       |



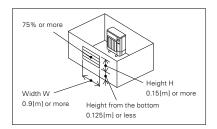
#### B Install in a space with a depression height of ≤0.125[m].



#### Create an appropriate open ventilation area.

Make sure that the width of the open area is 0.9[m] or more and the height of the open area is 0.15[m] or more.

However, the height from the bottom of the installation space to the bottom edge of the open area should be 0.125[m] or less. More than 75% of the ventilation area should be open to allow air circulation.



#### Note

These countermeasures (A, B or C) are for keeping safety not for specification guarantee.

● Models with R32 Refrigerant: MSZ-L Series (single connection)

# OSSNAY SYSTEM







#### **LOSSNAY LINEUP**

| Applica                      | ation            | Airflow  | v 50<br>CMH | 100<br>CMH | 150<br>CMH | 250<br>CMH | 350<br>CMH | 500<br>CMH | 650<br>CMH | 800<br>CMH | 1000<br>CMH | 1500<br>CMH | 2000<br>CMH | 2500<br>CMH |
|------------------------------|------------------|--|-------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
|                              |                  | LGH-RVX<br>Series                                    |             |            | •          | •          | •          | •          | •          | •          | •           | •           | •           |             |
| u.                           | þe               | LGH-RVXT<br>Series                                   |             |            |            |            |            |            |            |            |             | •           | •           | •           |
| entilatic                    | Concealed        | GUF<br>Series  |             |            |            |            |            | •          |            |            | •           |             |             |             |
| Centralized Ventilation      | GUG Series       | (Dx-coil unit for Lossnay                            |             |            |            |            |            | •          | •          | •          | •           | •           | •           | •           |
| Centr                        |                  | VL-220CZGV-E   |             |            |            | •          |            |            |            |            |             |             |             |             |
|                              | Vertical<br>Type | VL-CZPVU<br>Series                                   |             |            |            | •          | •          |            |            |            |             |             |             |             |
| ation                        | Mounted<br>Type  | VL-100(E)U5-E  |             | •          |            |            |            |            |            |            |             |             |             |             |
| Decentralized<br>Ventilation | Wall Mo          | VL-50(E)S <sub>2</sub> -E<br>VL-50SR <sub>2</sub> -E | •           |            |            |            |            |            |            |            |             |             |             |             |

#### LGH-RVX Series

A commercially oriented system that can be used to deliver high performance and functions virtually anywhere.

#### **LGH-RVXT** Series

Thin, large airflow models of the LGH series that deliver high performance and functions.

#### **GUF** Series

Heat recovery units with a heating and cooling system that uses the City Multi outdoor unit as a heat source.

#### **Dx-coil unit (GUG Series)**

Temperature control equipment that works with Lossnay units and Mr. Slim outdoor units.

#### **VL-CZPVU Series**

Vertical type for residential use centralized ventilation with sensible heat exchange.

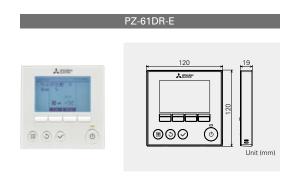
#### VL-220CZGV-E

Centralized ventilation with sensible heat exchange, for residential use

#### VL-100(E)U5-E, VL-50(E)S2-E, VL-50SR2-E

Wall-mounted models. Particularly suitable for houses and small offices.

#### REMOTE CONTROLLER



# Arear Lower case Unit (mm)

PZ-43SMF-E

| Function   | PZ-61                              | DR-E   | PZ-43             | SMF-E  |
|--|------------------------------------|--|-------------------|--|
| (Communicating mode)   | LGH-RVX/RVXT                       | VL-220CZGV-E   | LGH-RVX/RVXT      | VL-220CZGV-E   |
| Fan speed selection  | 4 fan speeds                       | 4 fan speeds   | 2 of 4 fan speeds | 2 of 4 fan speeds  |
| Ventilation mode selection   | Energy recovery /<br>Bypass / Auto |  |                   | Heat recovery /<br>Bypass / Auto (available<br>with optional part<br>P-133DUE-E) |
| Night-purge setting (time and fan speed)                           | Yes                                | No   | No                | No   |
| Function setting from RC   | Yes                                | Yes  | No                | No   |
| Bypass temp. free setting  | Yes                                | Yes (available with<br>optional part<br>P-133DUE-E)                        | No                | No   |
| Heater-On temp. free setting                                       | Yes                                | No   | No                | No   |
| Fan power change after installation                                | Yes                                | Yes  | No                | No   |
| ON/OFF timer   | Yes                                | Yes  | Yes               | Yes  |
| Auto-Off timer   | Yes                                | Yes  | No                | No   |
| Weekly timer   | Yes                                | Yes  | No                | No   |
| Operation restrictions<br>(ON/OFF, ventilation mode,<br>fan speed) | Yes                                | Yes (ventilation<br>mode is available<br>with optional part<br>P-133DUE-E) | No                | No   |
| Operation restrictions (fan speed skip setting)                    | Yes                                | Yes  | No                | No   |
| Screen contrast adjustment   | Yes                                | Yes  | No                | No   |
| Language selection   | Yes (8 languages)                  | Yes (8 languages)  | No (English only) | No (English only)  |
| Initializing   | Yes                                | Yes  | No                | No   |
| Filter cleaning sign   | Yes                                | Yes  | Yes               | Yes  |
| Lossnay core cleaning sign   | Yes                                | No   | No                | No   |
| Error indication   | Yes                                | Yes  | Yes               | Yes  |
| Error history  | Yes                                | Yes  | No                | No   |

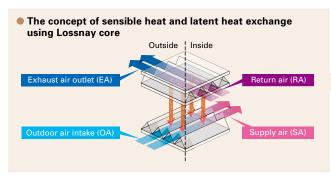
# LOSSNAY

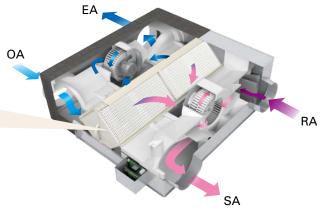
Lossnay ventilation systems are renowned industry-wide for their efficiency. They offer environment-friendly energy recovery and humidity control, and enable air conditioning systems to simultaneously provide optimum room comfort and energy savings.



#### Indoor Air Quality Inside a Building is Optimized Through Temperature and Humidity Exchange by Lossnay

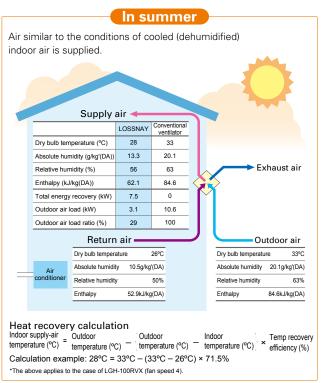
Lossnay is a total heat exchange ventilation system that uses paper characteristics to perform temperature (sensible heat) and humidity (latent heat) exchange.

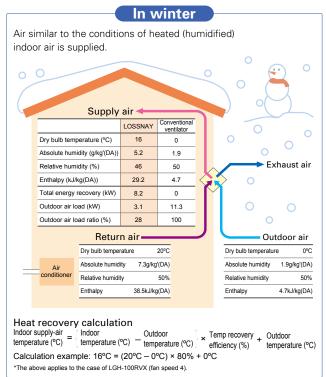




#### What Can Be Improved by Introducing Lossnay?

#### Ventilation with maximized comfort





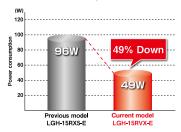
#### Commercial Use Lossnay

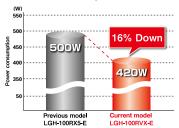
#### LGH-RVX Series (Standard model)

#### Power consumption reduced further with the introduction of a DC motor

Low power consumption is realised with the introduction of a high efficiency brushless DC motor. Compared to models with an AC motor, power consumption is reduced.

#### Comparison between current and previous power consumption (Current model: Fan speed 4 at 230V 50Hz, Previous model: Extra-High at 220V 50Hz)





#### Improved airflow range

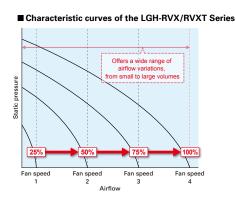
#### Wide airflow range

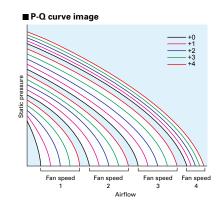
Each fan speed has a range setting of 25, 50, 75 and 100%, allowing much finer airflow control. When used in combination with the CO<sub>2</sub> sensor or timer function, airflow can be controlled according to conditions that realize better performance and reduce power consumption.

#### Fan speed adjustment function

The default fan speed value can be adjusted slightly. Use the PZ-61DR-E remote controller to reset the speed.

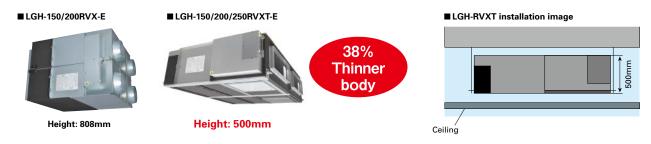
- 1) Considering the total hours of Lossnay operation (filter clogging), fan power can be adjusted automatically after a given period of time.
- 2) After the unit is installed, fine adjustments can be made if the airflow is slightly lower than the desired airflow.





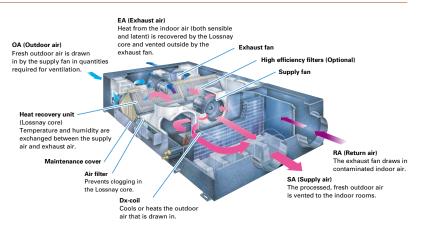
#### LGH-RVXT Series (Thin body type)

The LGH-RVXT series has a large airflow of 1500 - 2500 CMH but a thin body of approximately 500mm. Therefore, installing the unit in the ceiling is easy.



#### GUF Series (Lossnay with Dx-coil unit)

Along with Lossnay ventilation, the OA processing unit is really two units in one, functioning as the main air conditioner when the load is light and adding supplemental air conditioning when the load is heavy.



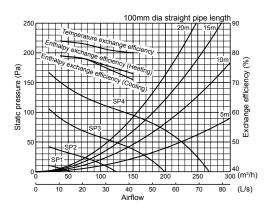
#### Commercial Use Lossnay Specifications

#### **RVX Series**

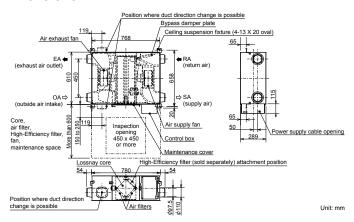
#### LGH-15RVX-E

| Electrical power supply   |         |                                | 220-240V/50Hz, 220V/60Hz |      |      |      |      |      |      |  |  |  |
|---|---------|--------------------------------|--------------------------|------|------|------|------|------|------|--|--|--|
| Ventilation mode  |         | Heat recovery mode Bypass mode |                          |      |      |      |      |      |      |  |  |  |
| Fan speed   |         | SP4                            | SP3                      | SP2  | SP1  | SP4  | SP3  | SP2  | SP1  |  |  |  |
| Running current (A)   |         | 0.40                           | 0.24                     | 0.15 | 0.10 | 0.41 | 0.25 | 0.15 | 0.10 |  |  |  |
| Input power (W)   |         | 49                             | 28                       | 14   | 7    | 52   | 28   | 14   | 8    |  |  |  |
| Airflow   | (m³/h)  | 150                            | 113                      | 75   | 38   | 150  | 113  | 75   | 38   |  |  |  |
| All Hove  | (L/s)   | 42                             | 31                       | 21   | 10   | 42   | 31   | 21   | 10   |  |  |  |
| External static pressure (Pa)   |         | 95                             | 54                       | 24   | 6    | 95   | 54   | 24   | 6    |  |  |  |
| Temperature exchange efficiency (   | %)      | 80                             | 81                       | 83   | 84   | -    | -    | -    | -    |  |  |  |
| Enthalpy exchange efficiency (%)  | Heating | 73                             | 75.5                     | 78   | 79   | -    | -    | -    | -    |  |  |  |
| Entirally exchange eniciency (%)  | Cooling | 71                             | 74.5                     | 78   | 79   | -    | -    | -    | -    |  |  |  |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) |         | 28                             | 24                       | 19   | 17   | 29   | 24   | 19   | 18   |  |  |  |
| Weight (kg)   |         |                                |                          |      | 2    | .0   |      |      |      |  |  |  |
| Specific energy consumption class   |         | A                              |                          |      |      |      |      |      |      |  |  |  |

#### **Characteristic Curves**



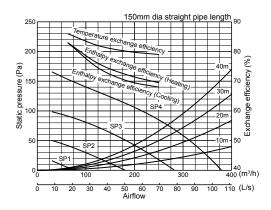
#### **Dimensions**



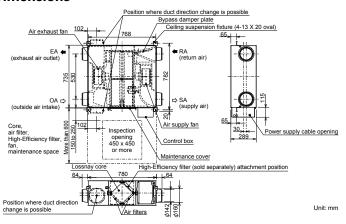
#### LGH-25RVX-E

| Electrical power supply   |                     | 220-240V/50Hz, 220V/60Hz |           |           |      |      |        |        |      |  |
|---|---------------------|--------------------------|-----------|-----------|------|------|--------|--------|------|--|
| Ventilation mode  |                     |                          | Heat reco | very mode |      |      | Bypass | s mode |      |  |
| Fan speed   |                     | SP4                      | SP3       | SP2       | SP1  | SP4  | SP3    | SP2    | SP1  |  |
| Running current (A)   |                     | 0.48                     | 0.28      | 0.16      | 0.10 | 0.48 | 0.29   | 0.16   | 0.11 |  |
| Input power (W)   |                     | 62                       | 33        | 16        | 7.5  | 63   | 35     | 17     | 9    |  |
| Airflow   | (m <sup>3</sup> /h) | 250                      | 188       | 125       | 63   | 250  | 188    | 125    | 63   |  |
| All now   | (L/s)               | 69                       | 52        | 35        | 17   | 69   | 52     | 35     | 17   |  |
| External static pressure (Pa)   |                     | 85                       | 48        | 21        | 5    | 85   | 48     | 21     | 5    |  |
| Temperature exchange efficiency (   | %)                  | 79                       | 80        | 82        | 86   | -    | -      | -      | -    |  |
| Enthalpy exchange efficiency (%)  | Heating             | 69.5                     | 72        | 76        | 83   | -    | -      | -      | -    |  |
| Entirally exchange eniciency (%)  | Cooling             | 68                       | 70        | 74.5      | 83   | -    | -      | -      | -    |  |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) |                     | 27                       | 22        | 20        | 17   | 27.5 | 23     | 20     | 17   |  |
| Weight (kg)   |                     |                          |           |           | 2    | 23   |        |        |      |  |
| Specific energy consumption class A   |                     |                          |           |           |      |      |        |        |      |  |

#### **Characteristic Curves**



#### **Dimensions**



<sup>■</sup>For LGH-RVX and LGH-RVXT series

<sup>\*</sup>The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.

\*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

\*For specifications at other frequencies, contact your dealer.

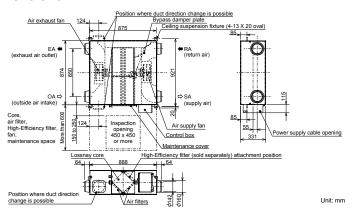
#### LGH-35RVX-E

| Electrical power supply 220-240V/50Hz, 220V/60Hz                                  |                     |                                |      |      |      |      |      |      |      |
|---|---------------------|--------------------------------|------|------|------|------|------|------|------|
| Ventilation mode  |                     | Heat recovery mode Bypass mode |      |      |      |      |      |      |      |
| Fan speed   |                     | SP4                            | SP3  | SP2  | SP1  | SP4  | SP3  | SP2  | SP1  |
| Running current (A)   |                     | 0.98                           | 0.54 | 0.26 | 0.12 | 0.98 | 0.56 | 0.28 | 0.13 |
| Input power (W)   |                     | 140                            | 70   | 31   | 11   | 145  | 72   | 35   | 13   |
| Airflow   | (m <sup>3</sup> /h) | 350                            | 263  | 175  | 88   | 350  | 263  | 175  | 88   |
| All llow  | (L/s)               | 97                             | 73   | 49   | 24   | 97   | 73   | 49   | 24   |
| External static pressure (Pa)   |                     | 160                            | 90   | 40   | 10   | 160  | 90   | 40   | 10   |
| Temperature exchange efficiency (   | %)                  | 80                             | 82.5 | 86   | 88.5 | -    | -    | -    | -    |
| Enthalpy exchange efficiency (%)  | Heating             | 71.5                           | 74   | 78.5 | 83.5 | -    | -    | -    | -    |
| Entrialpy exchange enticiency (78)  | Cooling             | 71                             | 73   | 78   | 82   | -    | ī    | -    | -    |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) |                     | 32                             | 28   | 20   | 17   | 32.5 | 28   | 20   | 18   |
| Weight (kg)   |                     |                                |      |      | 3    | 10   |      |      |      |

#### **Characteristic Curves**

# Static pressure (8 160 180 (L/s)

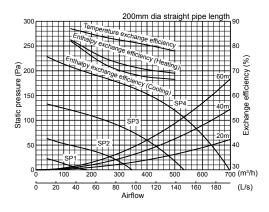
#### **Dimensions**



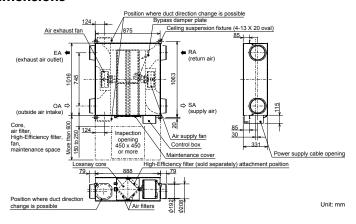
#### LGH-50RVX-E

| Electrical power supply   |                     | 220-240V/50Hz, 220V/60Hz |            |           |      |      |        |      |      |  |
|---|---------------------|--------------------------|------------|-----------|------|------|--------|------|------|--|
| Ventilation mode  |                     |                          | Heat recov | very mode |      |      | Bypass | mode |      |  |
| Fan speed   |                     | SP4                      | SP3        | SP2       | SP1  | SP4  | SP3    | SP2  | SP1  |  |
| Running current (A)   |                     | 1.15                     | 0.59       | 0.26      | 0.13 | 1.15 | 0.59   | 0.27 | 0.13 |  |
| Input power (W)   |                     | 165                      | 78         | 32        | 12   | 173  | 81     | 35   | 14   |  |
| Airflow   | (m <sup>3</sup> /h) | 500                      | 375        | 250       | 125  | 500  | 375    | 250  | 125  |  |
| All llow  | (L/s)               | 139                      | 104        | 69        | 35   | 139  | 104    | 69   | 35   |  |
| External static pressure (Pa)   |                     | 120                      | 68         | 30        | 8    | 120  | 68     | 30   | 8    |  |
| Temperature exchange efficiency (   | %)                  | 78                       | 81         | 83.5      | 87   | 1    | -      | -    | -    |  |
| Enthalpy exchange efficiency (%)  | Heating             | 69                       | 71         | 75        | 82.5 | -    | -      | -    | -    |  |
| Entirally exchange efficiency (78)  | Cooling             | 66.5                     | 68         | 72.5      | 82   | -    | -      | -    | -    |  |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) |                     | 34                       | 28         | 19        | 18   | 35   | 29     | 20   | 18   |  |
| Weight (kg)   |                     |                          | 33         |           |      |      |        |      |      |  |

#### **Characteristic Curves**



#### **Dimensions**



- For LGH-RVX and LGH-RVXT series

  \*The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.

  \*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

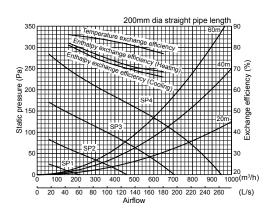
  \*For specifications at other frequencies, contact your dealer.

# Commercial Use Lossnay Specifications

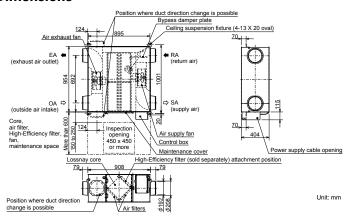
## LGH-65RVX-E

| Electrical power supply   |                     |      |            | 2:        | 20-240V/50H | tz, 220V/60H | Ηz     |      |      |
|---|---------------------|------|------------|-----------|-------------|--------------|--------|------|------|
| Ventilation mode  |                     |      | Heat recov | very mode |             |              | Bypass | mode |      |
| Fan speed   |                     | SP4  | SP3        | SP2       | SP1         | SP4          | SP3    | SP2  | SP1  |
| Running current (A)   |                     |      | 0.90       | 0.39      | 0.15        | 1.72         | 0.86   | 0.38 | 0.16 |
| Input power (W)   |                     |      | 131        | 49        | 15          | 262          | 131    | 47   | 17   |
| Airflow   | (m <sup>3</sup> /h) | 650  | 488        | 325       | 163         | 650          | 488    | 325  | 163  |
| Airnow  | (L/s)               | 181  | 135        | 90        | 45          | 181          | 135    | 90   | 45   |
| External static pressure (Pa)   |                     | 120  | 68         | 30        | 8           | 120          | 68     | 30   | 8    |
| Temperature exchange efficiency (   | %)                  | 77   | 81         | 84        | 86          | -            | -      | -    | -    |
| Enthalpy exchange efficiency (%)  | Heating             | 68.5 | 71         | 76        | 82          | -            | -      | -    | -    |
| Cooling   |                     | 66   | 69.5       | 74        | 81          | -            | -      | -    | -    |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) |                     |      | 29         | 22        | 18          | 35.5         | 29     | 22   | 18   |
| Weight (kg)   |                     |      |            |           | 3           | 8            |        |      |      |

## **Characteristic Curves**



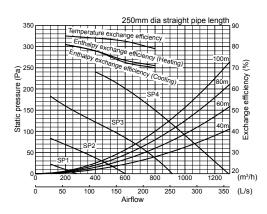
## **Dimensions**

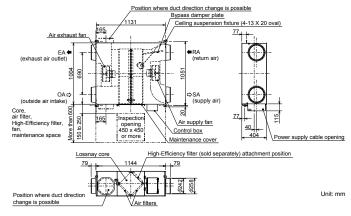


# LGH-80RVX-E

| Electrical power supply   |                     |     |            | 2:        | 20-240V/50H | lz, 220V/60H | Ηz     |      |      |
|---|---------------------|-----|------------|-----------|-------------|--------------|--------|------|------|
| Ventilation mode  |                     |     | Heat recov | very mode |             |              | Bypass | mode |      |
| Fan speed   |                     |     | SP3        | SP2       | SP1         | SP4          | SP3    | SP2  | SP1  |
| Running current (A)   |                     |     | 0.83       | 0.36      | 0.15        | 1.97         | 0.86   | 0.40 | 0.15 |
| Input power (W)   |                     |     | 151        | 60        | 18          | 340          | 151    | 64   | 20   |
| Airflow   | (m <sup>3</sup> /h) | 800 | 600        | 400       | 200         | 800          | 600    | 400  | 200  |
| All How   | (L/s)               | 222 | 167        | 111       | 56          | 222          | 167    | 111  | 56   |
| External static pressure (Pa)   |                     | 150 | 85         | 38        | 10          | 150          | 85     | 38   | 10   |
| Temperature exchange efficiency (   | %)                  | 79  | 82.5       | 84        | 85          | -            | -      | -    | -    |
| Enthalpy exchange efficiency (%)  | Heating             | 71  | 73.5       | 78        | 81          | -            | -      | -    | -    |
| Cooling   |                     | 70  | 72.5       | 78        | 81          | -            | -      | -    | -    |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) |                     |     | 30         | 23        | 18          | 36           | 30     | 23   | 18   |
| Weight (kg)   |                     |     |            |           | 4           | 8            |        |      |      |

## **Characteristic Curves**





<sup>\*</sup>The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.

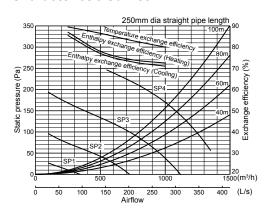
\*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

\*For specifications at other frequencies, contact your dealer.

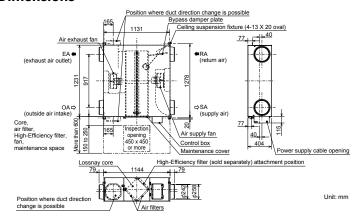
### LGH-100RVX-E

| Electrical power supply   |                     |      | 220-240V/50Hz, 220V/60Hz       Heat recovery mode     Bypass mode       SP4     SP3     SP2     SP1     SP4     SP3     SP2     SP1       2.50     1.20     0.50     0.17     2.50     1.20     0.51     0.19 |           |      |      |        |      |      |  |
|---|---------------------|------|---|-----------|------|------|--------|------|------|--|
| Ventilation mode  |                     |      | Heat recov  | very mode |      |      | Bypass | mode |      |  |
| Fan speed   |                     | SP4  | SP3   | SP2       | SP1  | SP4  | SP3    | SP2  | SP1  |  |
| Running current (A)   |                     |      | 1.20  | 0.50      | 0.17 | 2.50 | 1.20   | 0.51 | 0.19 |  |
| Input power (W)   |                     |      | 200   | 75        | 21   | 420  | 200    | 75   | 23   |  |
| Airflow   | (m <sup>3</sup> /h) | 1000 | 750   | 500       | 250  | 1000 | 750    | 500  | 250  |  |
| Airnow  | (L/s)               | 278  | 208   | 139       | 69   | 278  | 208    | 139  | 69   |  |
| External static pressure (Pa)   |                     | 170  | 96  | 43        | 11   | 170  | 96     | 43   | 11   |  |
| Temperature exchange efficiency (   | %)                  | 80   | 83  | 86.5      | 89.5 | -    | -      | -    | -    |  |
| Enthalpy exchange efficiency (%)  | Heating             | 72.5 | 74  | 78        | 87   | -    | -      | -    | -    |  |
| Cooling   |                     | 71   | 73  | 77        | 85.5 | -    | -      | -    | -    |  |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) |                     | 37   | 31  | 23        | 18   | 38   | 32     | 24   | 18   |  |
| Weight (kg)   |                     |      |   |           | 5    | 4    |        |      |      |  |

## **Characteristic Curves**



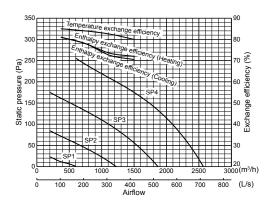
## **Dimensions**

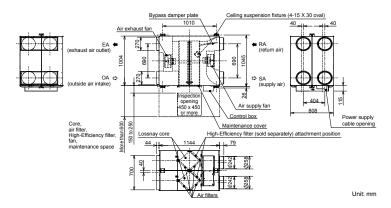


# LGH-150RVX-E

| Electrical power supply   |                     |                                    |      | 2   | 20-240V/50H | tz, 220V/60H | Ηz   |     |     |
|---|---------------------|------------------------------------|------|-----|-------------|--------------|------|-----|-----|
| Ventilation mode  |                     | Heat recovery mode Bypass mode     |      |     |             |              |      |     |     |
| Fan speed   |                     | SP4                                | SP3  | SP2 | SP1         | SP4          | SP3  | SP2 | SP1 |
| Running current (A)   |                     | 3.71 1.75 0.70 0.29 3.85 1.78 0.78 |      |     | 0.78        | 0.30         |      |     |     |
| Input power (W)   |                     |                                    | 311  | 123 | 38          | 698          | 311  | 124 | 44  |
| Airflow   | (m <sup>3</sup> /h) | 1500                               | 1125 | 750 | 375         | 1500         | 1125 | 750 | 375 |
| All llow  | (L/s)               | 417                                | 313  | 208 | 104         | 417          | 313  | 208 | 104 |
| External static pressure (Pa)   |                     | 175                                | 98   | 44  | 11          | 175          | 98   | 44  | 11  |
| Temperature exchange efficiency (   | %)                  | 80                                 | 82.5 | 84  | 85          | -            | -    | -   | -   |
| Enthalpy exchange efficiency (%)  | Heating             | 72                                 | 73.5 | 78  | 81          | -            | -    | -   | -   |
| Enthalpy exchange enticlency (78)   | Cooling             | 70.5                               | 72.5 | 78  | 81          | -            | -    | -   | -   |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) |                     |                                    | 32   | 24  | 18          | 40.5         | 33   | 26  | 18  |
| Weight (kg)   |                     |                                    |      |     | 9           | 18           |      |     |     |

## **Characteristic Curves**





<sup>■</sup> For LGH-RVX and LGH-RVXT series

\*The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.

\*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

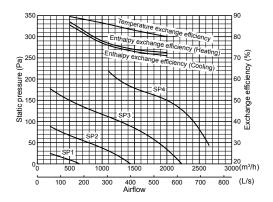
\*For specifications at other frequencies, contact your dealer.

# Commercial Use Lossnay Specifications

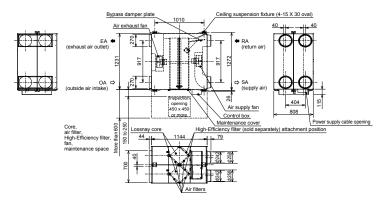
## LGH-200RVX-E

| Electrical power supply   |                     |      |            | 2:        | 20-240V/50H | tz, 220V/60H | Ηz     |      |      |
|---|---------------------|------|------------|-----------|-------------|--------------|--------|------|------|
| Ventilation mode  |                     |      | Heat recov | very mode |             |              | Bypass | mode |      |
| Fan speed   |                     | SP4  | SP3        | SP2       | SP1         | SP4          | SP3    | SP2  | SP1  |
| Running current (A)   |                     |      | 2.20       | 0.88      | 0.33        | 4.54         | 2.06   | 0.87 | 0.35 |
| Input power (W)   |                     |      | 400        | 153       | 42          | 853          | 372    | 150  | 49   |
| Airflow   | (m <sup>3</sup> /h) | 2000 | 1500       | 1000      | 500         | 2000         | 1500   | 1000 | 500  |
| Airnow  | (L/s)               | 556  | 417        | 278       | 139         | 556          | 417    | 278  | 139  |
| External static pressure (Pa)   |                     | 150  | 84         | 38        | 10          | 150          | 84     | 38   | 10   |
| Temperature exchange efficiency (   | %)                  | 80   | 83         | 86.5      | 89.5        | -            | -      | -    | -    |
| Enthalpy exchange efficiency (%)  | Heating             | 72.5 | 74         | 78        | 87          | -            | -      | -    | -    |
| Cooling   |                     | 71   | 73         | 77        | 85.5        | -            | -      | -    | -    |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) |                     |      | 36         | 28        | 18          | 41           | 36     | 27   | 19   |
| Weight (kg)   |                     |      |            |           | 1           | 10           |        |      |      |

## **Characteristic Curves**



## **Dimensions**



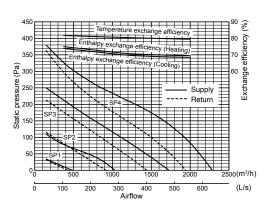
Unit: mm

## **RVXT Series**

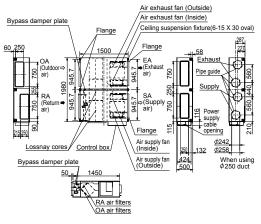
### LGH-150RVXT-E

| Electrical power supply   |         |                            |            | 2:        | 20-240V/50H | Hz, 220V/60H | ∃z     |      |      |
|---|---------|----------------------------|------------|-----------|-------------|--------------|--------|------|------|
| Ventilation mode  |         |                            | Heat recov | very mode |             |              | Bypass | mode |      |
| Fan speed   |         | SP4                        | SP3        | SP2       | SP1         | SP4          | SP3    | SP2  | SP1  |
| Running current (A)   |         | 4.30                       | 2.40       | 1.10      | 0.36        | 3.40         | 1.80   | 0.77 | 0.31 |
| Input power (W)   |         | 792 421 176 48 625 334 134 |            |           | 134         | 37           |        |      |      |
| Airflow (m³/h)  |         | 1500                       | 1125       | 750       | 375         | 1500         | 1125   | 750  | 375  |
| All llow  | (L/s)   | 417                        | 313        | 208       | 104         | 417          | 313    | 208  | 104  |
| External static pressure (Pa)   | Supply  | 175                        | 98         | 44        | 11          | 175          | 98     | 44   | 11   |
| External static pressure (i a)  | Return  | 100                        | 56         | 25        | 6           | 100          | 56     | 25   | 6    |
| Temperature exchange efficiency (   | %)      | 80                         | 80.5       | 81        | 81.5        | -            | -      | -    | -    |
| Enthalpy exchange efficiency (%)  | Heating | 70                         | 71         | 73        | 75          | -            | -      | -    | -    |
| Cooling   |         | 69                         | 70         | 72        | 74          | -            | -      | -    | -    |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) |         |                            | 35.5       | 29.5      | 22          | 39           | 33     | 26.5 | 20.5 |
| Weight (kg)   |         |                            |            | 15        | 56          |              |        |      |      |

### **Characteristic Curves**



### **Dimensions**



Unit: mm

<sup>\*</sup>The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.

\*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

\*For specifications at other frequencies, contact your dealer.

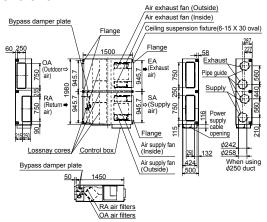
### LGH-200RVXT-E

| Electrical power supply   |                                       |      |            | 2         | 20-240V/50H | lz, 220V/60H | Ηz     |      |      |
|---|---------------------------------------|------|------------|-----------|-------------|--------------|--------|------|------|
| Ventilation mode  |                                       |      | Heat recov | very mode |             |              | Bypass | mode |      |
| Fan speed   |                                       | SP4  | SP3        | SP2       | SP1         | SP4          | SP3    | SP2  | SP1  |
| Running current (A)   |                                       |      | 2.70       | 1.10      | 0.39        | 5.00         | 2.20   | 0.85 | 0.34 |
| Input power (W)   | t power (W) 1000 494 197 56 916 407 1 |      |            | 150       | 45          |              |        |      |      |
| Airflow (m³/h)  |                                       | 2000 | 1500       | 1000      | 500         | 2000         | 1500   | 1000 | 500  |
| Alfilow   | (L/s)                                 | 556  | 417        | 278       | 139         | 556          | 417    | 278  | 139  |
| External static pressure (Pa)   | Supply                                | 175  | 98         | 44        | 11          | 175          | 98     | 44   | 11   |
| External static pressure (Fa)   | Return                                | 100  | 56         | 25        | 6           | 100          | 56     | 25   | 6    |
| Temperature exchange efficiency (   | %)                                    | 80   | 81         | 82.5      | 84          | -            | -      | -    | -    |
| Enthalpy exchange efficiency (%)  | Heating                               | 72.5 | 73.5       | 77        | 83          | -            | -      | -    | -    |
| Littralpy exchange efficiency (%)   | Cooling                               | 70   | 71         | 74.5      | 80.5        | -            | -      | -    | -    |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) |                                       | 39.5 | 35.5       | 28        | 22          | 40.5         | 34.5   | 27   | 20.5 |
| Weight (kg)   |                                       |      |            | 15        | 59          |              |        |      |      |

## **Characteristic Curves**

# 90 04 08 06 Exchange efficiency (%) Enthalpy exchange efficiency (Cooling) Static pressure ( Supply Return 3000(m³/h) 800 (L/s) 200 600

## **Dimensions**

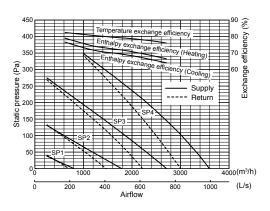


Unit: mm

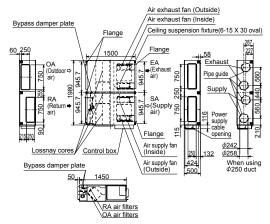
### LGH-250RVXT-E

| Electrical power supply   |         |                              |            | 2         | 20-240V/50H | tz, 220V/60H | łz     | Bypass mode           SP3         SP2         SP1           3.10         1.30         0.49           587         212         69           1875         1250         625           521         347         174           98         44         11           56         25         6 |      |  |  |  |  |  |
|---|---------|------------------------------|------------|-----------|-------------|--------------|--------|--|------|--|--|--|--|--|
| Ventilation mode  |         |                              | Heat recov | very mode |             |              | Bypass | mode   |      |  |  |  |  |  |
| Fan speed   |         | SP4                          | SP3        | SP2       | SP1         | SP4          | SP3    | SP2  | SP1  |  |  |  |  |  |
| Running current (A)   |         |                              | 3.60       | 1.40      | 0.57        | 6.90         | 3.10   | 1.30   | 0.49 |  |  |  |  |  |
| Input power (W)   |         | 1446 687 244 82 1298 587 212 |            |           | 212         | 69           |        |  |      |  |  |  |  |  |
| Airflow (m³/h)  |         | 2500                         | 1875       | 1250      | 625         | 2500         | 1875   | 1250   | 625  |  |  |  |  |  |
| All low   | (L/s)   | 694                          | 521        | 347       | 174         | 694          | 521    | 347  | 174  |  |  |  |  |  |
| External static pressure (Pa)   | Supply  | 175                          | 98         | 44        | 11          | 175          | 98     | 44   | 11   |  |  |  |  |  |
| External static pressure (i a)  | Return  | 100                          | 56         | 25        | 6           | 100          | 56     | 25   | 6    |  |  |  |  |  |
| Temperature exchange efficiency (   | %)      | 77                           | 79         | 80.5      | 82.5        | -            | -      | -  | -    |  |  |  |  |  |
| Enthalpy exchange efficiency (%)  | Heating | 68                           | 71.5       | 74        | 79          | -            | 1      | -  | -    |  |  |  |  |  |
| Cooling   |         | 65.5                         | 69         | 71.5      | 76.5        | -            | -      | -  | -    |  |  |  |  |  |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) |         |                              | 39         | 32        | 24          | 44           | 38.5   | 31   | 22.5 |  |  |  |  |  |
| Weight (kg)   |         |                              |            | 19        | 98          |              |        |  |      |  |  |  |  |  |

#### **Characteristic Curves**



#### **Dimensions**



Unit: mm

<sup>■</sup>For LGH-RVX and LGH-RVXT series

\*The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.

\*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

\*For specifications at other frequencies, contact your dealer.

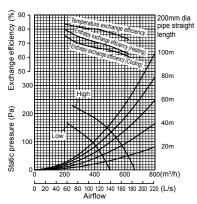
# Commercial Use Lossnay Specifications

## **GUF Series**

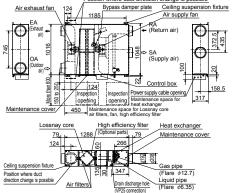
#### GUF-50RD4

| Electrical power supply       |                |  |                     | 220-240   | 0V/50Hz |           |  |  |
|-------------------------------|----------------|--|---------------------|-----------|---------|-----------|--|--|
| Ventilation mode              |                |  | Heat recov          | very mode | Bypas   | s mode    |  |  |
| Fan speed                     |                |  | High                | Low       | High    | Low       |  |  |
| Running current (A)           |                |  | 1.15 0.70 1.15 0.70 |           |         |           |  |  |
| Input power (W)               |                |  | 235-265             | 150-165   | 235-265 | 150-165   |  |  |
| Airflow                       |                | (m <sup>3</sup> /h)                              | 500                 | 400       | 500     | 400       |  |  |
| Airilow                       | -              | (L/s)  | 139                 | 111       | 139     | 111       |  |  |
| External static pressure (Pa) | a)             |  | 140 90 140          |           |         |           |  |  |
| Temperature exchange effic    | iciency (%)    |  | 77.5                | 80        | -       | -         |  |  |
| Enthalpy exchange efficiency  | ov (9/ )       | Heating  | 68                  | 71        | -       | -         |  |  |
| Entrialpy exchange enrolence  | icy (70)       | Cooling  | 65                  | 67        | -       | -         |  |  |
| Cooling capacity (kW)         | <u>.</u>       |  |                     | 5.57      | (1.94)  | •         |  |  |
| Heating capacity (kW)         |                |  |                     | 6.21      | (2.04)  |           |  |  |
| Capacity equivalent to the in | indoor unit    |  |                     | PS        | 32      |           |  |  |
| Hum                           | nidifying      |  |                     | -         | -       |           |  |  |
| Humidifier Hum                | midifying cap  | acity (kg/h)                                     | -                   |           |         |           |  |  |
| Wate                          | ter supply pre | essure   | -                   |           |         |           |  |  |
| Noise (dB) (Measured at       | t 1.5m unde    | r the center of the unit in an anechoic chamber) | 33.5-34.5           | 29.5-30.5 | 35-36   | 29.5-30.5 |  |  |
| Weight (kg)                   | (kg)           |  |                     | 48        |         |           |  |  |

### **Characteristic Curves**



# **Dimensions** Position where duct direction change is possible



Unit: mm

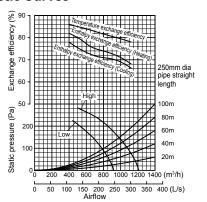
Unit: mm

# **GUF-100RD4**

| Electrical power supply       |              |  |                         | 220-240   | OV/50Hz |       |  |
|-------------------------------|--------------|--|-------------------------|-----------|---------|-------|--|
| Ventilation mode              |              |  | Heat recov              | very mode | Bypass  | mode  |  |
| Fan speed                     |              |  | High                    | Low       | High    | Low   |  |
| Running current (A)           |              |  | 2.20                    | 1.73      | 2.25    | 1.77  |  |
| Input power (W)               |              |  | 480-505 370-395 490-515 |           |         |       |  |
| Airflow                       |              | (m <sup>3</sup> /h)                              | 1000                    | 800       | 1000    | 800   |  |
| Airilow                       |              | (L/s)  | 278 222 278 22          |           |         |       |  |
| External static pressure (Pa) | )            |  | 140 90 140 9            |           |         |       |  |
| Temperature exchange effici   | ciency (%)   |  | 79.5                    | 81.5      | -       | -     |  |
| Enthalpy exchange efficience  | m. (9/ )     | Heating  | 71                      | 74        | -       | -     |  |
| Entrialpy exchange enicience  | Sy (70)      | Cooling  | 69                      | 71        | -       | -     |  |
| Cooling capacity (kW)         |              |  |                         | 11.44     | (4.12)  | •     |  |
| Heating capacity (kW)         |              |  |                         | 12.56     | (4.26)  |       |  |
| Capacity equivalent to the in | ndoor unit   |  |                         | P6        | 63      |       |  |
| Humi                          | nidifying    |  |                         | -         | -       |       |  |
| Humidifier Humi               | idifying cap | acity (kg/h)                                     | -                       |           |         |       |  |
| Wate                          | er supply pr | essure   | =                       |           |         |       |  |
| Noise (dB) (Measured at 1     | 1.5m unde    | r the center of the unit in an anechoic chamber) | 38-39                   | 34-35     | 38-39   | 35-36 |  |
| Weight (kg)                   |              |  | 82                      |           |         |       |  |

**Dimensions** 

### **Characteristic Curves**



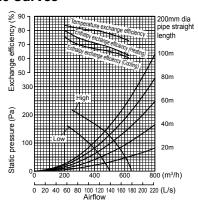
Position where duct direction change is possible Ceiling suspension fixture Air supply fan 1231 More than 60 150 to 250 Control box
nance space for Lossnay core
rs, fan, high efficiency filter Maintenance cover High efficiency filter
/(Optional parts) Heat exchanger Maintenance cover 79 149 Gas pipe (Flare φ 15.88) Ceiling suspension fixture Liquid pipe (Flare \$\phi\$ 9.52) 361

Position where duct direction change is possible

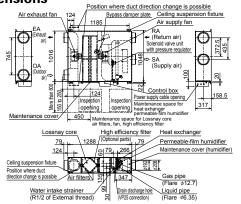
## **GUF-50RDH4**

| Electrical power supply       |               |  |  | 220-24       | 0V/50Hz       |           |  |
|-------------------------------|---------------|--|--|--------------|---------------|-----------|--|
| Ventilation mode              |               |  | Heat reco  | very mode    | Bypass        | s mode    |  |
| Fan speed                     |               |  | High   | Low          | High          | Low       |  |
| Running current (A)           |               |  | 1.15 0.70 1.15 0.70  |              |               |           |  |
| Input power (W)               |               |  | 235-265  | 150-165      | 235-265       | 150-165   |  |
| Airflow                       |               | (m <sup>3</sup> /h)                              | 500  | 400          | 500           | 400       |  |
| Airilow                       |               | (L/s)  | 139  | 111          | 139           | 111       |  |
| External static pressure (Pa) | a)            |  | 125 80 125 80  |              |               |           |  |
| Temperature exchange effic    | ciency (%)    |  | 77.5   | 80           | -             | -         |  |
| Enthalpy exchange efficience  | ov /9/ \      | Heating  | 68   | 71           | -             | -         |  |
| Enthalpy exchange eniciend    | Cy (%)        | Cooling  | 65   | 67           | -             | -         |  |
| Cooling capacity (kW)         |               |  |  | 5.57         | (1.94)        |           |  |
| Heating capacity (kW)         |               |  |  | 6.21         | (2.04)        |           |  |
| Capacity equivalent to the in | indoor unit   |  |  | P            | 32            |           |  |
| Hum                           | nidifying     |  |  | Permeable fi | lm humidifier |           |  |
| Humidifier Hum                | nidifying cap | acity (kg/h)                                     |  | 2.7 (h       | eating)       |           |  |
| Wate                          | er supply pr  | essure   | Minimum pressure : 2.0 × 10 <sup>4</sup> Pa Maximum pressure : 49.0 × 10 <sup>4</sup> Pa |              |               |           |  |
| Noise (dB) (Measured at       | 1.5m unde     | r the center of the unit in an anechoic chamber) | 33.5-34.5  | 29.5-30.5    | 35-36         | 29.5-30.5 |  |
| Weight (kg)                   |               |  | 51 (filled with water 55)  |              |               |           |  |

### **Characteristic Curves**



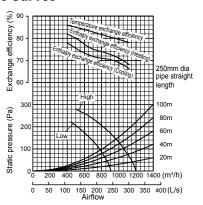
## **Dimensions**



GUF-100RDH4

| Electrical power supply           |                     |                                    |                                | 220-24   | 0V/50Hz       |        |  |  |
|-----------------------------------|---------------------|------------------------------------|--------------------------------|--|---------------|--------|--|--|
| Ventilation mode                  |                     |                                    | Heat reco                      | very mode  | Bypas         | s mode |  |  |
| Fan speed                         |                     |                                    | High                           | Low  | High          | Low    |  |  |
| Running current (A)               |                     |                                    | 2.20                           | 1.76   | 2.25          | 1.77   |  |  |
| Input power (W)                   |                     |                                    | 480-505 385-400 490-515 38     |  |               |        |  |  |
| Airflow                           | (m <sup>3</sup> /h) |                                    | 1000                           | 800  | 1000          | 800    |  |  |
| Airnow                            | (L/s)               |                                    | 278                            | 222  | 278 23        |        |  |  |
| External static pressure (Pa)     |                     |                                    | 135                            | 86   | 86 135 86     |        |  |  |
| Temperature exchange efficiency   | (%)                 |                                    | 79.5                           | 81.5   | -             | -      |  |  |
| Enthalpy exchange efficiency (%   | Heating             |                                    | 71                             | 74   | -             | -      |  |  |
| Entrialpy exchange eniciency (%   | Cooling             |                                    | 69                             | 71   | -             | -      |  |  |
| Cooling capacity (kW)             |                     |                                    |                                | 11.44  | (4.12)        | •      |  |  |
| Heating capacity (kW)             |                     |                                    |                                | 12.56  | (4.26)        |        |  |  |
| Capacity equivalent to the indoor | unit                |                                    |                                | Pi   | 63            |        |  |  |
| Humidifyi                         | g                   |                                    |                                | Permeable fi   | lm humidifier |        |  |  |
| Humidifier Humidifyi              | g capacity (kg/h)   |                                    | 5.4 (heating)                  |  |               |        |  |  |
| Water sup                         | ply pressure        |                                    | Minimum                        | n pressure : 2.0 × 10 <sup>4</sup> Pa Maximum pressure : 49.0 × 10 <sup>4</sup> Pa |               |        |  |  |
| Noise (dB) (Measured at 1.5m      | under the center of | f the unit in an anechoic chamber) | namber) 38-39 34-35 38-39 35-3 |  |               |        |  |  |
| Weight (kg)                       |                     |                                    | 88 (filled with water 96)      |  |               |        |  |  |

### **Characteristic Curves**



**Dimensions** Position where duct direction change is possible

Bypass damper plate Airsupply fan Ceiling suspension fixture Air exhaust fan Maintenance cover 600 Control box Heat exchanger Permeable-film humidifier 79 149 Maintenance cover (humidifier) Gas pipe (Flare φ15.88) Liquid pipe (Flare  $\phi$ 9.52) Water intake strainer (R1/2 of External thread)

Unit: mm

Unit: mm

# Optimized System Integration

## **List of Remote Controller Settings and Functions**

The remote controller provides a wide range of functions and features in addition to the main functions described below, such as sophisticated energy saving control and easy user interface.

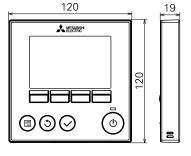
| Function (Communicating mode)                                | PZ-61DR-E                       | PZ-43SMF-E                      |
|--|---------------------------------|---------------------------------|
| Fan speed selection  | 4 fan speeds                    | 2 of 4 fan speeds               |
| Ventilation mode selection                                   | Energy recovery / Bypass / Auto | Energy recovery / Bypass / Auto |
| Night-purge setting (time and fan speed)                     | Yes                             | No                              |
| Function setting from RC                                     | Yes                             | No                              |
| Bypass temp. free setting                                    | Yes                             | No                              |
| Heater-On temp. free setting                                 | Yes                             | No                              |
| Fan power up after installation                              | Yes                             | No                              |
| 0 - 10VDC external input                                     | Yes                             | Yes                             |
| ON/OFF timer   | Yes                             | Yes                             |
| Auto-Off timer   | Yes                             | No                              |
| Weekly timer   | Yes                             | No                              |
| Operation restrictions (ON/OFF, Ventilation mode, fan speed) | Yes                             | No                              |
| Operation restrictions (Fan speed skip setting)              | Yes                             | No                              |
| Screen contrast adjustment                                   | Yes                             | No                              |
| Language selection   | Yes (8 languages)*              | No (English only)               |
| Initializing   | Yes                             | No                              |
| Filter cleaning sign   | Yes                             | Yes                             |
| Lossnay core cleaning sign                                   | Yes                             | No                              |
| Error indication   | Yes                             | Yes                             |
| Error history  | Yes                             | No                              |
| OA/RA/SA temp. display                                       | Yes                             | No                              |

<sup>\*</sup>The 8 languages are English, German, French, Spanish, Italian, Portuguese, Russian and Swedish.

### Controllers

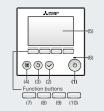
#### **Lossnay Remote Controller (PZ-61DR-E)**



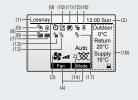


Unit: mm

#### Operation section



#### **Display section**



- (1) Press to turn ON/OFF the Lossnay unit.

- (2) Press to save the setting.
  (3) Press to return to the previous screen.
  (4) Press to bring up the Main menu.
- (5) Operation settings will appear. When the backlight is off, pressing any button turns the backlight on and it will stay lit for a certain period of time depending on the screen.
- (6) This lamp lights up in green while the unit is in operation. It blinks while the remote controller is starting up or when there is an error.

  (7) Main menu: Press to move the cursor down.
- (8) Main display: Press to change the fan speed. Main menu: Press to move the cursor up.
- (9) Main display: Press to change the ventilation mode. Main menu: Press to go to the previous page.
  (10) Main menu: Press to go to the next page.

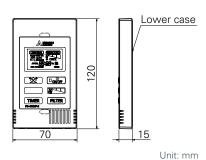
- (1) Lossnay is always displayed

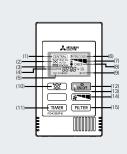
- (1) Lossnay is aways displayed.
  (2) Current time appears here.
  (3) Fan speed setting appears here.
  (4) Functions of the corresponding buttons appear here.
  (6) Appears when the ON/OFF operation is centrally controlled.
  (6) Appears when the filter reset function is centrally controlled.

- (6) Appears when the filter reset function is centrally controlled.
  (7) Indicates when the filter and/or Lossnay core needs maintenance.
  (8) Appears when the buttons are locked and/or a fan speed is skipped.
  (9) Appears when the On/Off timer or Auto-off timer function is enabled.
  (10) Appears when the Weekly timer is enabled.
  (11) Appears when the night-purge function is available.
  (12) Appears when performing operation to protect the equipment.
  (13) Appears when performing the power supply/exhaust function or the delay operation at the start of operation.
  (14) Indicates the verificiation mode setting.
- (14) Indicates the ventilation mode setting.
- (15) Appears when external fan speed operation.
  (16) Appears when operation is interlocked with the external unit.
- (17) Appears when external ventilation mode operation.(18) Displays the outdoor temperature, return temperature, and supply temperature (calculated value)

### **Lossnay Remote Controller (PZ-43SMF-E)**







- (1) Displayed during remote operation is prohibited by the centralized control unit, etc
- (2) Displays the ventilation mode status.

₩ HEAT EX. Heat exchange By-pass ← BY-PASS Automatic (HEAT EX./BY-PASS) AUTO Automatic (HEAT EX./BY-PASS)

- (3) Displayed while the Lossnay remote controller is powered on.
- (4) Displays on-timer or off-timer duration.
- (5) When a button is pressed for a function which the Lossnay unit cannot perform, this display flashes concurrently with the display of the function.
- (6) Displayed when the Lossnay starts off by interlocked indoor unit or external signal.
   (7) Displays the selected fan speed.
- (8) Displayed together with the malfunctioning unit (3 digits) and an error code (4 digits).
- (9) Displayed when the accumulated operating time reaches the time set for filter maintenance.

  (10) Used to select the ventilation mode among heat exchange, by-pass
- or automatic (11) Increasing 0:30 by pressing it once. Keep pressing the button for

- fast-forwarding.

  (12) Switch for start and stop.

  (13) On during operation. Flashes when a malfunction occurs.

  (14) Used to select the fan speed either "Low" or "High".



(15) Press twice to reset the filter sign display.

# **Filters**

## **Standard Filters**

Replacements for the standard filter supplied with the Lossnay main unit.



|                      |  | Filter                  |                          |                                      | Lossnay                               |          |
|----------------------|--|-------------------------|--------------------------|--------------------------------------|---------------------------------------|----------|
| Filter               | Classif                                    | ication                 | Model Name               | Included                             | Applicable model                      | Required |
| Material             | terial ISO 16890 EN779 (2012) IVIOGEI Name |                         | piece/set                | Applicable model                     | filter pieces                         |          |
|                      |  |                         | PZ-15RF8-E               | 2                                    | LGH-15RVX-E                           | 2        |
|                      |  |                         | PZ-25RF <sub>8</sub> -E  | 4                                    | LGH-25RVX-E                           | 4        |
|                      |  |                         | PZ-35RF <sub>8</sub> -E  | 7-35RF <sub>8</sub> -E 4 LGH-35RVX-E |                                       | 4        |
|                      |  | PZ-50RF <sub>8</sub> -E | 4                        | LGH-50RVX-E, GUF-50RD4, GUF-50RDH4   | 4                                     |          |
|                      | Coarse 35%                                 | G3*                     | PZ-65RF <sub>8</sub> -E  | 4                                    | LGH-65RVX-E                           | 4        |
| Non-woven<br>Fabrics |  |                         | PZ-80RFs-E               | 4                                    | LGH-80RVX-E                           | 4        |
| 1 021100             |  |                         | FZ-OUNF8-E               | 4                                    | LGH-150RVX-E                          | 8        |
|                      |  |                         | D7 100DF= F              | 4                                    | LGH-100RVX-E, GUF-100RD4, GUF-100RDH4 | 4        |
|                      |  |                         | PZ-100RF <sub>8</sub> -E | 4                                    | LGH-200RVX-E                          | 8        |
|                      | C F00/                                     | 60                      | PZ-150RTF-E              | 4                                    | LGH-150RVXT-E                         | 4        |
| Coarse               | Coarse 50%                                 | G3                      | PZ-250RTF-E              | 4                                    | LGH-200RVXT-E, LGH-250RVXT-E          | 4        |

<sup>\*</sup>The classification in EN779 (2002) is G3.

## **High-efficiency Filters** Optional

These high-efficiency filters can be easily inserted in the Lossnay unit without the need to attach external parts.



|                    |                       | Filter     |               |             | Lossnay                               |               |  |  |
|--------------------|-----------------------|------------|---------------|-------------|---------------------------------------|---------------|--|--|
| Filter             | Classif               | ication    | Model Name    | Included    | Applicable model                      | Required      |  |  |
| Material           | ISO 16890 EN779 (2012 |            | Wiodel Name   | piece/set   | Applicable Hodel                      | filter pieces |  |  |
|                    |                       |            | PZ-15RFM-E    | 1           | LGH-15RVX-E                           | 1             |  |  |
|                    |                       | PZ-25RFM-E | 2             | LGH-25RVX-E | 2                                     |               |  |  |
|                    |                       | M6*        | PZ-35RFM-E    | 2           | LGH-35RVX-E                           | 2             |  |  |
| 0 11 11            |                       |            | PZ-50RFM-E    | 2           | LGH-50RVX-E, GUF-50RD4, GUF-50RDH4    | 2             |  |  |
| Synthetic<br>fiber | ePM <sub>10</sub> 75% |            | PZ-65RFM-E    | 2           | LGH-65RVX-E                           | 2             |  |  |
|                    |                       |            | PZ-80RFM-F    | 2           | LGH-80RVX-E                           | 2             |  |  |
|                    |                       |            | PZ-8UNFIVI-E  |             | LGH-150RVX-E                          | 4             |  |  |
|                    |                       |            | PZ-100RFM-E   | 2           | LGH-100RVX-E, GUF-100RD4, GUF-100RDH4 | 2             |  |  |
|                    |                       |            | PZ-TOURFIVI-E | 2           | LGH-200RVX-E                          | 4             |  |  |

<sup>\*</sup>The classification in EN779 (2002) is F7.

### Advanced High-efficiency Filters (For LGH-RVX and GUF Series) Optional

These advanced high-efficiency filters are designed to remove approx. 99.7% of airborne particulates that are 0.5µm or larger.

\*GB/T14295-2008 : YG class, 99.7% ( Collecting efficiency for particles that are 0.5 $\mu$ m or larger )



|                    |                        | Filter                |                           |                                  | Lossnay                               |               |
|--------------------|------------------------|-----------------------|---------------------------|----------------------------------|---------------------------------------|---------------|
| Filter             | Classif                | ication               |                           | Included                         |                                       | Required      |
| Material           | ISO 16890              | ASHRAE 52.2<br>(2017) | Model Name                | piece/set                        | Applicable model                      | filter pieces |
|                    | ePM1 75%               |                       | PZ-15RFP <sub>2</sub> -E  | 1                                | LGH-15RVX-E                           | 1             |
|                    |                        |                       | PZ-25RFP <sub>2</sub> -E  | 2                                | LGH-25RVX-E                           | 2             |
|                    |                        |                       | PZ-35RFP <sub>2</sub> -E  | FP <sub>2</sub> -E 2 LGH-35RVX-E |                                       | 2             |
| 0 11 11            |                        |                       | PZ-50RFP <sub>2</sub> -E  | 2                                | LGH-50RVX-E, GUF-50RD4, GUF-50RDH4    | 2             |
| Synthetic<br>fiber | ePM <sub>2.5</sub> 80% | MERV16                | PZ-65RFP <sub>2</sub> -E  | 2                                | LGH-65RVX-E                           | 2             |
|                    | ePM <sub>10</sub> 95%  |                       | PZ-80RFP <sub>2</sub> -E  | 2                                | LGH-80RVX-E                           | 2             |
|                    |                        |                       | FZ-OUNFF2-E               | 2                                | LGH-150RVX-E                          | 4             |
|                    |                        |                       | PZ-100RFP <sub>2</sub> -E | 2                                | LGH-100RVX-E, GUF-100RD4, GUF-100RDH4 | 2             |
|                    |                        |                       | FZ-100RFP2-E              | 2                                | LGH-200RVX-E                          | 4             |

## Advanced High-efficiency Filters (For LGH-RVXT Series) Optional

These advanced high-efficiency filters can be easily inserted in the Lossnay unit without the need to attach external parts.



|                      |                                     | Filter       | Lossnay                        |          |  |               |
|----------------------|-------------------------------------|--------------|--------------------------------|----------|--|---------------|
| Filter               | Classification                      |              | Madal Nama                     | Included | Applicable model                               | Required      |
| Material             | ISO 16890                           | EN779 (2012) | 79 (2012) Model Name piece/set |          | Applicable model                               | filter pieces |
|                      | ePM <sub>10</sub> 75%               | M6*          | PZ-M6RTFM-E                    | 3        |  |               |
| Non-woven<br>Fabrics | ePM1 65%<br>ePM2.5 75%<br>ePM10 90% | F8*          | PZ-F8RTFM-E                    | 3        | LGH-150RVXT-E, LGH-200RVXT-E,<br>LGH-250RVXT-E | 3             |

<sup>\*</sup>There is no data for the classification in EN779 (2002).

## Optional Dx-coil Unit for Lossnay

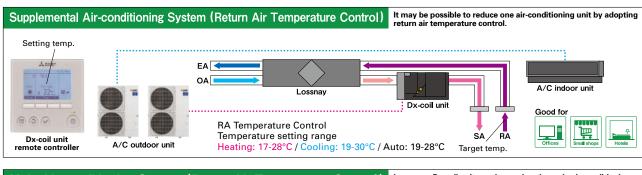
#### **Supply Comfortable Control**

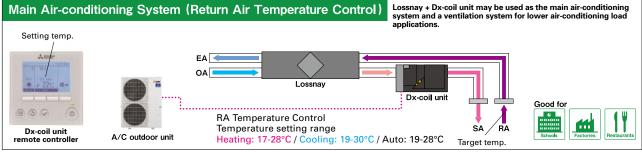
#### **Product Features**

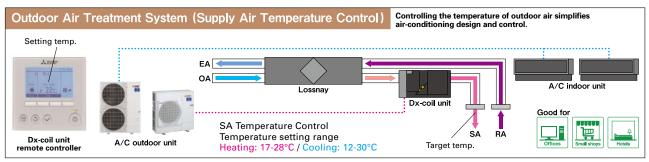
- Lossnay return air and supply air temperature control are possible by connecting the Dx-coil unit to Mr. Slim (power inverter series).
- Connecting the Dx-coil unit will expand Lossnay's temperature control range (500-2,500 CMH). Suitable for various applications such as offices, shops and schools etc.



#### **Application Examples**

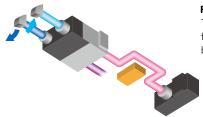






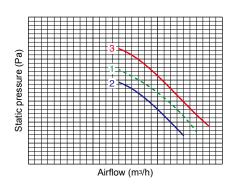
\*The above images of using the LGH-RVXT Series are simply examples for reference.

#### **Flexible Installation**



### Flexible Connection to Lossnay

The length of the connection cable (accessory) between the Lossnay and Dx-coil unit is about 6m, so flexible installation is possible (two units can be installed close together or far apart with straight or bent ducting).



#### To Keep High Static Pressure

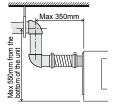
P-Q curve image

- 1. Lossnay unit
- 2. Lossnay unit + Dx-coil unit
- 3. Lossnay unit (fan power-up +4) + Dx-coil unit

Dx-coil unit static pressure loss is kept to a minimum, making it possible to maintain high static pressure using the fan power-up function of the Lossnay. The fan power-up function is only available when used with the PZ-61DR-E Lossnay remote controller.

#### **Drain Pump Equipment**

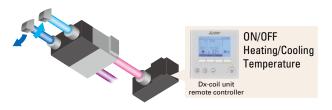
A built-in drain pump makes attaching the drain hose in the ceiling cavity easy, resulting in simple and fast installation.



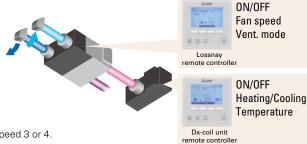
#### **User-friendly System Control**

#### Flexible Remote Controller Selection

#### (A) One remote controller



### (B) Two remote controllers



When using only one remote controller, Lossnay fan speed is fixed at fan speed 3 or 4.

When using two remote controllers, all Lossnay functions are available.

- \*1: Lossnay unit and Dx-coil unit both will synchronously switch on and off.
- \*2: When one of the two remote controllers is turned ON, the other remote controller turns ON synchronously.

#### **Priority Mode Selection**

Temperature priority mode (factory setting) or Fan speed priority mode are selectable when Lossnay unit fan speed is controlled by a CO<sub>2</sub>-sensor or a BMS (analog input (0 - 10 VDC) or a volt-free input).

\*During fan speed 1 or 2, the Dx-coil unit is always set to thermo-OFF

|  | Operation | Fan speed order     | Actual fan speed |                    |  |  |  |
|--|-----------|---------------------|------------------|--------------------|--|--|--|
|  | mode      | from external input | Temp. priority   | Fan speed priority |  |  |  |
|  |           | FS4                 | FS4              | FS4                |  |  |  |
|  | Heating   | FS3                 | FS3              | FS3                |  |  |  |
|  | Cooling   | FS2                 | FS3              | FS2                |  |  |  |
|  | Cooming   | FS1                 | FS3              | FS1                |  |  |  |
|  |           | FS4                 | FS4              | FS4                |  |  |  |
|  | Гол       | FS3                 | FS3              | FS3                |  |  |  |
|  | Fan       | FS2                 | FS2              | FS2                |  |  |  |
|  |           | FS1                 | FS1              | FS1                |  |  |  |

# **Specifications**

## **GUG-01SL-E (Connection to LGH-50RVX-E or LGH-65RVX-E)**

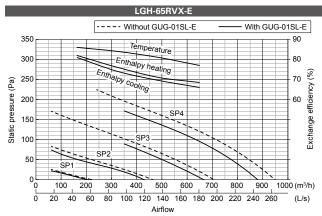


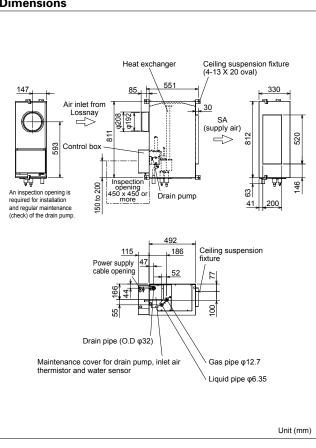
GUG-01SL-E

| Refrigerant  |                                     | R410A                               |  |                      |                   |                   |                   |                      |     |  |  |  |
|--|-------------------------------------|-------------------------------------|--|----------------------|-------------------|-------------------|-------------------|----------------------|-----|--|--|--|
| Electrical power supp  | oly                                 | 220-240V / 50Hz                     | 20-240V / 50Hz, 220V / 60Hz (Supplied from outdoor unit) |                      |                   |                   |                   |                      |     |  |  |  |
| Input power  |                                     | Heating / Fan: 2.5W, Cooling: 12.4W |  |                      |                   |                   |                   |                      |     |  |  |  |
| Running current  |                                     | Less than 0.1A                      |  |                      |                   |                   |                   |                      |     |  |  |  |
| Weight   |                                     | 21kg *Accessories: Approx. 1kg      |  |                      |                   |                   |                   |                      |     |  |  |  |
| Heating / Cooling / Auto / Fan *Auto is only available for RA temporal |                                     |                                     |  |                      | for RA temperatur | re control        |                   |                      |     |  |  |  |
| Function   |                                     | RA (Return Air) to                  | emperature control                                       |                      |                   |                   |                   |                      |     |  |  |  |
|  | RA (Return Air) temperature control |                                     |  |                      |                   |                   |                   |                      |     |  |  |  |
| Connectable Lossnay  | / unit                              |                                     | LGH-50   | DRVX-E               |                   |                   | LGH-6             | 5RVX-E               |     |  |  |  |
| Conneity [I/M]   | Heating                             |                                     | 6.5 ( 2.4  | 1 + 4.1 )            |                   |                   | 7.7 ( 3.2         | 2 + 4.5 )            |     |  |  |  |
| Capacity [kW]  | Cooling                             |                                     | 5.6 ( 2.0  | 0 + 3.6 )            |                   | 6.6 ( 2.6 + 4.0 ) |                   |                      |     |  |  |  |
| SHF  | ,                                   |                                     | 0.0  | 66                   |                   |                   | 0.                | 69                   |     |  |  |  |
| Performance index  | Heating                             |                                     | 4.0  | 09                   |                   |                   | 4.                | 72                   |     |  |  |  |
| Performance index  | Cooling                             |                                     | 4.0  | 69                   |                   | 5.03              |                   |                      |     |  |  |  |
| Airflow range at SP3   | and SP4                             |                                     | 350 - 6  | 95 m³/h              |                   |                   | 350 - 9           | 00 m³/h              |     |  |  |  |
| Connectable outdoor  | unit                                |                                     | PUHZ-  | ZRP35                |                   |                   | PUHZ-             | ZRP35                |     |  |  |  |
| E.A. alalaa  |                                     |                                     | Diameter Liquid  | I / Gas: 6.35 / 12.7 |                   |                   | Diameter Liquid   | d / Gas: 6.35 / 12.7 |     |  |  |  |
| Ext. piping  |                                     | Max                                 | imum length: 50m,  | Maximum height:      | 30m               | Max               | imum length: 50m. | , Maximum height:    | 30m |  |  |  |
| Ventilation :  |                                     |                                     |  |                      |                   | pecifications     |                   |                      |     |  |  |  |
| Fan speed SP4 SP3 SP2 SP1  |                                     |                                     |  |                      |                   | SP4               | SP3               | SP2                  | SP1 |  |  |  |
| Airflow  | [m³/h]                              | 500                                 | 375  | 250                  | 125               | 650               | 488               | 325                  | 163 |  |  |  |
| Allilow  | [L/s]                               | 139                                 | 104  | 69                   | 35                | 181               | 135               | 90                   | 45  |  |  |  |
| External static pressu   | ıre [Pa]                            | 105                                 | 105 59 26 7 95 53 24 6                                   |                      |                   |                   |                   |                      |     |  |  |  |

## **Characteristic Curves**

#### - - Without GUG-01SL-E With GUG-01SL-E 350 Temperature Enthalpy heating 80 300 % 70 Static pressure (Pa) 60 200 150 Exchange SP3 50 SP1 700 (m<sup>3</sup>/h) 100 200 300 400 500 600 180 40 60 100 120 160 Airflow





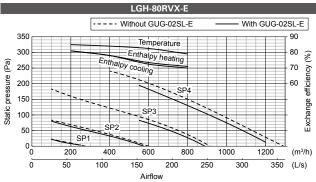
## **GUG-02SL-E (Connection to LGH-80RVX-E or LGH-100RVX-E)**

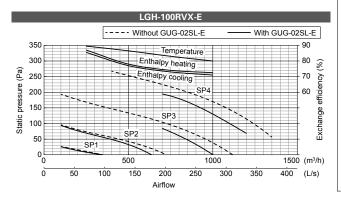


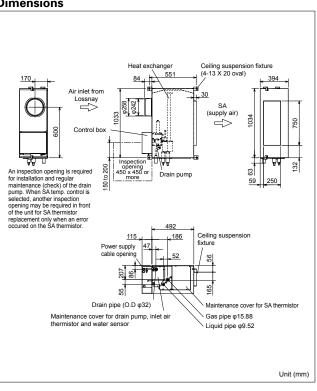
GUG-02SL-E

| Refrigerant   |  | R410A  |                    |                    |                    |  |                  |                      |     |  |  |
|---|--|--|--------------------|--------------------|--------------------|--|------------------|----------------------|-----|--|--|
|   |  |  | 0001//0011-/0      |                    |                    |  |                  |                      |     |  |  |
| Electrical power supp                                 | oiy  |  |                    | oplied from outdoo | unit)              |  |                  |                      |     |  |  |
| Input power   |  |  | W, Cooling: 12.4W  | <u>/</u>           |                    |  |                  |                      |     |  |  |
| Running current                                       |  | Less than 0.1A   |                    |                    |                    |  |                  |                      |     |  |  |
| Weight  |  |  | ries: Approx. 1kg  |                    |                    |  |                  |                      |     |  |  |
|   |  | Heating / Cooling / Auto / Fan  *Auto is only available for RA temperature control   |                    |                    |                    |  |                  |                      |     |  |  |
| Function  |  | RA (Return Air) temperature control / SA (Supply Air) temperature control [Must be set at initial setting and not possible to change from remote controller] |                    |                    |                    |  |                  |                      |     |  |  |
|   |  |  |                    |                    | RA (Return Air) te | emperature control   |                  |                      |     |  |  |
| Connectable Lossnay                                   |  |  |                    | ORVX-E             |                    |  |                  | 00RVX-E              |     |  |  |
| Capacity [kW]   | Heating  |  | 10.0 ( 4.          |                    |                    |  |                  | .1 + 8.1 )           |     |  |  |
|   | Cooling  |  | 8.3 ( 3.3          | 3 + 5.0 )          |                    |  | 11.3 ( 4.        | .2 + 7.1 )           |     |  |  |
| SHF   |  |  | 0.                 | 69                 |                    |  | 0.               | 66                   |     |  |  |
| Performance index                                     | Heating  |  |                    | 62                 |                    |  | 4.               | 42                   |     |  |  |
|   | Cooling  |  | 4.                 | 76                 |                    |  | 4.               | 98                   |     |  |  |
| Airflow range at SP3                                  | and SP4  |  | 560 - 12           | 200 m³/h           |                    |  | 700 - 12         | 200 m³/h             |     |  |  |
| Connectable outdoor                                   | nectable outdoor unit PUHZ-ZRP50 PUHZ-ZRP71          |  |                    |                    |                    |  |                  |                      |     |  |  |
| For a factor of                                       |  |  | Diameter Liquic    | / Gas: 6.35 / 12.7 |                    | Diameter Liquid / Gas: 9.52 / 15.88                                    |                  |                      |     |  |  |
| Ext. piping   |  | Max  | imum lenath: 50m.  | Maximum height:    | 30m                | Max  | imum lenath: 50m | , Maximum height:    | 30m |  |  |
| Required optional pa                                  | rts  |  | PAC-SH30RJ-E at    | nd PAC-SH50RJ-E    |                    |  |                  | -                    |     |  |  |
|   |  | SA (Supply Air) temperature control  |                    |                    |                    |  |                  |                      |     |  |  |
| Connectable Lossna                                    | y unit   |  | LGH-80             | RVX-E              |                    | LGH-100RVX-E   |                  |                      |     |  |  |
|   | Heating  |  | 10.0 ( 4.          | 0 + 6.0 )          |                    | 11.4 ( 5.1 + 6.3 )   |                  |                      |     |  |  |
| Capacity [kW]   | Cooling  |  | 8.3 ( 3.3          | 3 + 5.0 )          |                    | 9.5 (4.2 + 5.3)  |                  |                      |     |  |  |
| SHF   | 1 3  |  |                    | 69                 |                    |  |                  | 73                   |     |  |  |
|   | Heating  |  | 4.                 | 62                 |                    | 5.09   |                  |                      |     |  |  |
| Performance index                                     | Cooling  |  |                    | 76                 |                    | 5.43   |                  |                      |     |  |  |
| Airflow range at SP3                                  |  |  | 560 - 12           | 200 m³/h           |                    |  | 700 - 12         | 200 m³/h             |     |  |  |
| Connectable outdoor                                   |  |  |                    | ZRP50              |                    |  |                  | -ZRP50               |     |  |  |
|   | u  |  |                    | / Gas: 6.35 / 12.7 |                    |  |                  | d / Gas: 6.35 / 12.7 |     |  |  |
| Ext. piping   | Ext. piping Maximum length: 50m, Maximum height: 30m |  |                    |                    |                    |  |                  |                      | 30m |  |  |
| Required optional parts PAC-SH30RJ-E and PAC-SH50RJ-E |  |  |                    |                    |                    | Maximum length: 50m, Maximum height: 30m PAC-SH30RJ-E and PAC-SH50RJ-E |                  |                      |     |  |  |
| rioquirou optionai pa                                 |  |  | 1710 01100110 2 41 | Ventilation spec   | ifications         | FAC-SHOUND-L dilu FAC-SHOUND-E   |                  |                      |     |  |  |
| Connectable Lossna                                    | v unit   |  | LGH-80             | DRVX-E             | modiforio-         | LGH-100RVX-E   |                  |                      |     |  |  |
| Fan speed   | ,  | SP4  | SP3                | SP2                | SP1                | SP4  | SP3              | SP2                  | SP1 |  |  |
|   | [m³/h]   | 800  | 600                | 400                | 200                | 1.000  | 750              | 500                  | 250 |  |  |
| Airflow   | [L/s]  | 222  | 167                | 111                | 56                 | 278  | 208              | 139                  | 69  |  |  |
| External static pressu                                |  | 130  | 73                 | 33                 | 8                  | 130  | 73               | 33                   | 8   |  |  |
| - Morrial olatio prossi                               | [ · u ]  | 100  | , ,                |                    | •                  | 100  | , , ,            |                      |     |  |  |

#### **Characteristic Curves**







# **Specifications**

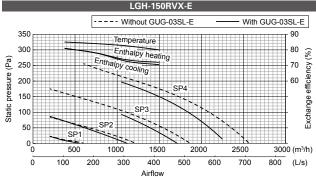
## GUG-03SL-E (Connection to LGH-150RVX-E or LGH-200RVX-E)

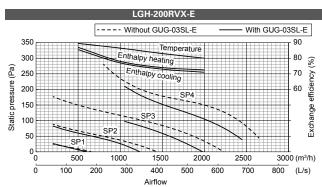


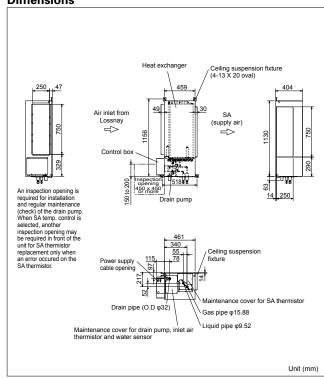
GUG-03SL-E

| Refrigerant  |   | R410A  |   |                         |                    |  |                   |                       |     |  |  |  |
|--|---|--|---|-------------------------|--------------------|--|-------------------|-----------------------|-----|--|--|--|
| Electrical power supp                                | ale e   |  | 0001//0011=/0:  | unlined from a state of |                    |  |                   |                       |     |  |  |  |
| Input power supp                                     | лу  |  | 20-240V / 50Hz, 220V / 60Hz (Supplied from outdoor unit) eating / Fan: 2.5W, Cooling: 12.4W |                         |                    |  |                   |                       |     |  |  |  |
| Running current                                      |   | Less than 0.1A   | 544, Cooling. 12.44   |                         |                    |  |                   |                       |     |  |  |  |
| Weight   |   |  | ries: Approx. 1kg   |                         |                    |  |                   |                       |     |  |  |  |
| vveigni  |   | . 3  |   | ita ia ambi available   | for DA townserstu  | un nombuni                               |                   |                       |     |  |  |  |
| Function   |   | Heating / Cooling / Auto / Fan *Auto is only available for RA temperature control  |   |                         |                    |  |                   |                       |     |  |  |  |
| Function   |   | RA (Return Air) temperature control / SA (Supply Air) temperature control [Must be set at initial setting and not possible to change from remote controller] |   |                         |                    |  |                   |                       |     |  |  |  |
|  |   |  |   |                         | RA (Return Air) te | emperature control                       |                   |                       |     |  |  |  |
| Connectable Lossnay unit LGH-150RVX-E                |   |  |   |                         |                    |  | LGH-20            | 00RVX-E               |     |  |  |  |
| Capacity [kW]  | Heating   |  | 20.7 ( 7.7  | 7 + 13.0 )              |                    |  | 23.8 ( 10.        | .3 + 13.5 )           |     |  |  |  |
| Capacity [KVV]                                       | Cooling   |  | 15.8 ( 6.   | 3 + 9.5)                |                    |  | 18.4 ( 8.4        | 4 + 10.0 )            |     |  |  |  |
| SHF  |   |  | 0.0   | 68                      |                    |  | 0.                | .76                   |     |  |  |  |
| Performance index                                    | Heating   |  |   | 24                      |                    |  |                   | .02                   |     |  |  |  |
| r enormance muex                                     | Cooling 5.27  |  |   |                         |                    |  | 5.                | .86                   |     |  |  |  |
| Airflow range at SP3                                 | ange at SP3 and SP4 1050 - 2250 m³/h 1050 - 2600 m³/h |  |   |                         |                    |  |                   |                       |     |  |  |  |
| Connectable outdoor                                  | unit  |  | PUHZ-Z  | ZRP100                  |                    |  | PUHZ-ZRP100       |                       |     |  |  |  |
| Ext. piping  |   |  | Diameter Liquid   | / Gas: 9.52 / 15.88     | 3                  |  | Diameter Liquid   | / Gas: 9.52 / 15.88   | 3   |  |  |  |
| Lxt. piping  |   | Max  | imum length: 75m,   | Maximum height:         |                    |  | imum length: 75m, | , Maximum height:     | 30m |  |  |  |
|  |   | SA (Supply Air) temperature control  |   |                         |                    |  |                   |                       |     |  |  |  |
| Connectable Lossnay                                  | / unit  |  | LGH-15  | 0RVX-E                  |                    | LGH-200RVX-E                             |                   |                       |     |  |  |  |
| Capacity [kW]  | Heating   |  | 16.6 ( 7.   | 7 + 8.9 )               |                    | 19.5 ( 10.3 + 9.2 )                      |                   |                       |     |  |  |  |
| Capacity [KVV]                                       | Cooling   |  | 13.4 ( 6.   | 3 + 7.1)                |                    | 15.9 ( 8.5 + 7.4 )                       |                   |                       |     |  |  |  |
| SHF  |   |  | 0.8   | 85                      |                    | 0.90                                     |                   |                       |     |  |  |  |
| Performance index                                    | Heating   |  | 5.4   | 46                      |                    | 6.30                                     |                   |                       |     |  |  |  |
| renormance index                                     | Cooling   |  | 5.3   | 32                      |                    |  | 5.                | 85                    |     |  |  |  |
| Airflow range at SP3                                 | and SP4   |  | 1050 - 22   | 250 m³/h                |                    |  | 1050 - 2          | 600 m <sup>3</sup> /h |     |  |  |  |
| Connectable outdoor                                  | unit  |  | PUHZ-   | ZRP71                   |                    |  | PUHZ-             | -ZRP71                |     |  |  |  |
| Fut minima   |   |  | Diameter Liquid   | / Gas: 9.52 / 15.88     | 3                  |  | Diameter Liquid   | / Gas: 9.52 / 15.88   | 3   |  |  |  |
| Ext. piping Maximum length: 50m, Maximum height: 30m |   |  |   |                         |                    | Maximum length: 50m, Maximum height: 30m |                   |                       |     |  |  |  |
|  |   |  |   |                         | Ventilation s      | pecifications                            |                   |                       |     |  |  |  |
| Connectable Lossnay                                  | / unit  |  | LGH-15  | 0RVX-E                  |                    |  | LGH-20            | 00RVX-E               |     |  |  |  |
| Fan speed  |   | SP4  | SP3   | SP2                     | SP1                | SP4                                      | SP3               | SP2                   | SP1 |  |  |  |
| Airflow  | [m³/h]  | 1,500  | 1,125   | 750                     | 375                | 2,000                                    | 1,500             | 1,000                 | 500 |  |  |  |
| All IIOW   | [L/s] 417 313 208                                     |  |   |                         |                    | 556                                      | 417               | 278                   | 139 |  |  |  |
| External static pressure [Pa] 150 84 38 9            |   |  |   |                         |                    | 105                                      | 59                | 26                    | 7   |  |  |  |

## **Characteristic Curves**



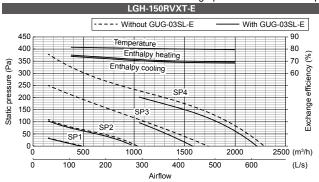


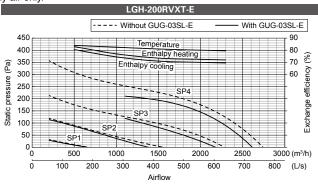


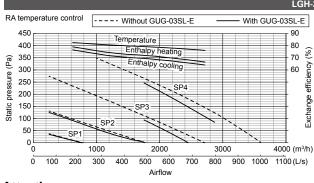
### GUG-03SL-E (Connection to LGH-150RVXT-E, LGH-200RVXT-E or LGH-250RVXT-E)

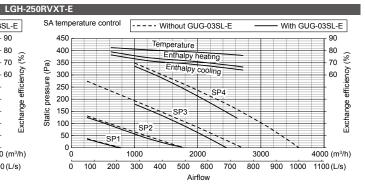
| Refrigerant                                   |   |                            |  |                                     |                |                                   |                |              |                     |         |             |                       |            |
|---|---|----------------------------|--|-------------------------------------|----------------|-----------------------------------|----------------|--------------|---------------------|---------|-------------|-----------------------|------------|
| Electrical power supp                         | oly                                     | 220-240V /                 | 50Hz, 220V   | / / 60Hz (Sup                       | oplied from o  | utdoor unit)                      |                |              |                     |         |             |                       |            |
| Input power                                   | -                                       | Heating / F                | an: 2.5W, Co   | ooling: 12.4V                       | V              |                                   |                |              |                     |         |             |                       |            |
| Running current                               |   | Less than (                | ).1A   |                                     |                |                                   |                |              |                     |         |             |                       |            |
| Weight  |   | 28kg *Ad                   | cessories: A   | pprox. 1kg                          |                |                                   |                |              |                     |         |             |                       |            |
|   |   | Heating / C                | ooling / Auto  | /Fan *Au                            | uto is only av | ailable for R                     | A temperatu    | re control   |                     |         |             |                       |            |
| Function                                      |   | RA (Return<br>[Must be se  | RA (Return Air) temperature control / SA (Supply Air) temperature control [Must be set at initial setting and not possible to change from remote controller] |                                     |                |                                   |                |              |                     |         |             |                       |            |
|   |   |                            |  |                                     |                | RA (F                             | Return Air) te | emperature c | ontrol              |         |             |                       |            |
| Connectable Lossnay                           | y unit                                  |                            | LGH-150  | ORVXT-E                             |                |                                   | LGH-200        | 0RVXT-E      |                     |         | LGH-25      | 0RVXT-E               |            |
| Capacity [kW]                                 | Heating                                 |                            | 20.4 ( 7.4   | 4 + 13.0 )                          |                |                                   | 23.8 ( 10.     | .3 + 13.5 )  |                     |         | 26.1 ( 12   | .1 + 14.0 )           |            |
| Capacity [KVV]                                | Cooling                                 | Cooling 15.7 ( 6.2 + 9.5 ) |  |                                     |                |                                   | 18.4 ( 8.4     | 4 + 10.0)    |                     |         | 22.3 ( 9.   | 8 + 12.5)             |            |
| SHF   |   |                            | 0.68   |                                     |                |                                   | 0.             | 76           |                     |         | 0.          | 87                    |            |
| Performance index                             | Heating 4.07                            |                            |  |                                     |                |                                   |                | 86           |                     |         |             | .75                   |            |
| Cooling 5.03                                  |   |                            |  |                                     |                |                                   | 59             |              |                     |         | 59          |                       |            |
| Airflow range at SP3 and SP4 1050 - 2250 m³/h |   |                            |  |                                     |                | 1050 - 2600 m³/h 1750 - 2880 m³/h |                |              |                     |         |             |                       |            |
| Connectable outdoor                           | unit                                    |                            | PUHZ-  | PUHZ-ZRP100 PUHZ-ZRP100 PUHZ-ZRP125 |                | PUHZ-ZRP100 PUHZ-ZRP125           |                |              |                     |         |             |                       |            |
| Ext. piping                                   |   | Diame                      | ter Liquid   | / Gas: 9.52                         | / 15.88        | Diame                             | ter Liquid     | / Gas: 9.52  | 15.88               | Diame   | eter Liquid | / Gas: 9.52           | 15.88      |
| Ext. pipirig                                  |   | Maximum                    | length: 75m,   | Maximum h                           | eight: 30m     |                                   | length: 75m,   |              |                     | Maximum | length: 75m | , Maximum h           | eight: 30m |
|   |   |                            | SA (Supply Air) temperature control  |                                     |                |                                   |                |              |                     |         |             |                       |            |
| Connectable Lossnay                           | y unit                                  | LGH-150RVXT-E              |  |                                     |                | LGH-200RVXT-E                     |                |              | LGH-250RVXT-E       |         |             |                       |            |
| Capacity [kW]                                 | Heating                                 |                            | 16.3 ( 7.  | 4 + 8.9 )                           |                | 19.5 ( 10.3 + 9.2 )               |                |              | 21.6 ( 12.1 + 9.5 ) |         |             |                       |            |
| . ,, ,  | Cooling                                 |                            | 13.3 ( 6   | .2 + 7.1 )                          |                | 15.9 ( 8.5 + 7.4 )                |                |              |                     |         | 17.6 ( 9    | .8 + 7.8 )            |            |
| SHF   |   |                            |  | 86                                  |                | 0.90                              |                |              |                     |         | 0.          | .95                   |            |
| Performance index                             | Heating                                 |                            | 5.   | 16                                  |                | 6.01                              |                |              |                     |         | 5.          | 97                    |            |
|   | Cooling                                 |                            |  | 03                                  |                |                                   |                | 54           |                     |         |             | 31                    |            |
| Airflow range at SP3                          | and SP4                                 |                            | 1050 - 2   | 250 m³/h                            |                |                                   | 1050 - 2       | 600 m³/h     |                     |         | 1000 - 2    | 600 m <sup>3</sup> /h |            |
| Connectable outdoor                           | unit                                    |                            |  | ZRP71                               |                |                                   |                | ZRP71        |                     |         |             | -ZRP71                |            |
| Ext. piping                                   |   | Diame                      |  | / Gas: 9.52                         |                | Diame                             |                | / Gas: 9.52  |                     | Diame   |             | / Gas: 9.52           |            |
| Ext. piping                                   | Maximum length: 50m, Maximum height: 30 |                            |  |                                     | eight: 30m     |                                   | length: 50m,   |              |                     | Maximum | length: 50m | , Maximum h           | eight: 30m |
|   |   |                            |  |                                     |                |                                   | Ventilation s  |              |                     |         |             |                       |            |
|   | onnectable Lossnay unit                 |                            |  | ORVXT-E                             |                |                                   |                | 0RVXT-E      |                     |         |             | 0RVXT-E               |            |
| Fan speed                                     |   | SP4                        | SP3  | SP2                                 | SP1            | SP4                               | SP3            | SP2          | SP1                 | SP4     | SP3         | SP2                   | SP1        |
| Airflow                                       | [m³/h]                                  | 1,500                      | 1,125  | 750                                 | 375            | 2,000                             | 1,500          | 1,000        | 500                 | 2,500   | 1,875       | 1,250                 | 625        |
|   | [L/s]                                   | 417                        | 313  | 208                                 | 104            | 556                               | 417            | 278          | 139                 | 694     | 521         | 347                   | 174        |
| External static pressu                        | ıre [Pa]                                | 150                        | 84   | 38                                  | 9              | 145                               | 82             | 36           | 9                   | 140     | 79          | 35                    | 9          |

## Characteristic Curves Note The graphs below show the supply air only.









#### Attention

- 1. The running current and input power are based on 230V/50Hz.
- The cooling and heating capacities are based on the air conditions listed below and the rated airflow of fan speed 4. Cooling Indoor: 27°CDB/19°CWB, Outdoor: 35°CDB/24°CWB Heating Indoor: 20°CDB/15°CWB, Outdoor: 7°CDB/6°CWB
- 3. The first figure in ( ) of the capacity specification is the heat recovery energy of the Lossnay unit. The second figure is the capacity specification for the Dx-coil connected to the outdoor unit.
- 4. "Performance index" is the calculated value at the temperature conditions above, and is for reference purpose only. Performance index = Total capacity ÷ total power consumption of outdoor unit and Lossnay unit
- Ferromance index = local capacity + total power consumption of outdoor unit and cossing unit.

  5. The external static pressure listed in the tables includes the static pressure loss of the Dx-coil unit when using a 50cm straight duct between the Lossnay and Dx-coil units.

  When the duct work between the Lossnay and Dx-coil units is longer and/or bent, the pressure loss of the duct work should be included in the pressure loss calculation.
- 6. The designed airflow of the system (Lossnay, Dx-coil and duct work) at fan speed 3 and 4 should be kept within "Airflow range at SP3 and SP4" listed in the tables. This range is shown as the solid line in graphs of the characteristic curves. If the Lossnay airflow is out of this range, the compressor of the outdoor unit may stop for self-protection purposes.
- 7. By installing the Dx-coil unit with a Lossnay unit, the air blow noise level is quieter at fan speed 4. Please refer to the "Direct Expansion coil unit for Lossnay" catalog.
- 8. Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit or disassemble the product yourself and always ask a professional.

# **Duct Silencer**

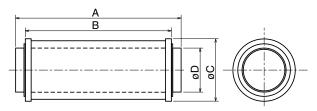
- This duct silencer connects to Lossnay unit to reduce the noise of its airflow.
- There are 4 sizes in order to cover a wide range of duct sizes.



## **Specifications**

| Model      | Airflow             |        |       |       |       |        |        |        |        |  |  |  |
|------------|---------------------|--------|-------|-------|-------|--------|--------|--------|--------|--|--|--|
| Wiodei     | [m <sup>3</sup> /h] | 62.5Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz |  |  |  |
| PZ-100SS-E | 50                  | 0      | 3     | 5     | 7     | 6      | 6      | 6      | 8      |  |  |  |
| PZ-10055-E | 150                 | 0      | 3     | 6     | 7     | 7      | 7      | 7      | 9      |  |  |  |
| D7.45000 F | 250                 | 0      | 1     | 5     | 8     | 15     | 21     | 20     | 14     |  |  |  |
| PZ-150SS-E | 350                 | 0      | 1     | 4     | 8     | 14     | 21     | 21     | 16     |  |  |  |
| PZ-200SS-E | 500                 | 0      | 1     | 4     | 7     | 13     | 18     | 16     | 9      |  |  |  |
| PZ-20055-E | 650                 | 0      | 1     | 3     | 8     | 12     | 17     | 14     | 6      |  |  |  |
| PZ-250SS-E | 800                 | 0      | 2     | 4     | 12    | 22     | 21     | 14     | 13     |  |  |  |
|            | 1000                | 0      | 1     | 4     | 12    | 22     | 20     | 14     | 13     |  |  |  |

## **Dimensions**

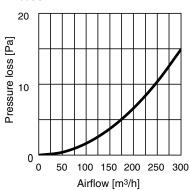


Unit: mm

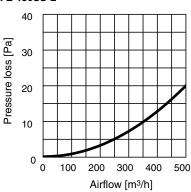
| Model      | Α   | В   | С   | D          | Connecting duct | Weight (kg) |
|------------|-----|-----|-----|------------|-----------------|-------------|
| PZ-100SS-E | 450 | 400 | 152 | 52 99 ø100 |                 | 1.9         |
| PZ-150SS-E | 560 | 500 | 202 | 149        | ø150            | 3.5         |
| PZ-200SS-E | 660 | 600 | 252 | 199        | ø200            | 5.3         |
| PZ-250SS-E | 660 | 600 | 332 | 249        | ø250            | 8.9         |

### Pressure loss curve

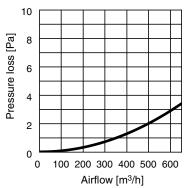
PZ-100SS-E



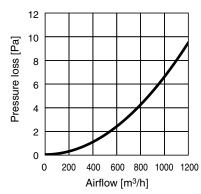
PZ-150SS-E



PZ-200SS-E



PZ-250SS-E



# **Optional Parts List**

|                                    | Lossnay                   | E           | 핒           | ų           | ų           | ų           | ų           | X-E          | X-E          | X-E          | XT-E          | XT-E          | XT-E          |           | 4          | 4          | H4          |
|------------------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|---------------|---------------|---------------|-----------|------------|------------|-------------|
|                                    |                           | LGH-15RVX-E | LGH-25RVX-E | LGH-35RVX-E | LGH-50RVX-E | LGH-65RVX-E | LGH-80RVX-E | LGH-100RVX-E | LGH-150RVX-E | LGH-200RVX-E | LGH-150RVXT-E | LGH-200RVXT-E | LGH-250RVXT-E | GUF-50RD4 | GUF-50RDH4 | GUF-100RD4 | GUF-100RDH4 |
| Optional Parts                     |                           | LG          | LG          | <u> </u>    | Ę           | Ę           | <u> </u>    | 2            | 9            | ē            | 9             | 9             | 9             | GU        | GO         | ß          | GU          |
| Lossnay                            | PZ-61DR-E                 | •           | •           | •           | •           | •           | •           | •            | •            | •            | •             | •             | •             |           |            |            |             |
| Remote Controller                  | PZ-43SMF-E                | •           | •           | •           | •           | •           | •           | •            | •            | •            | •             | •             | •             |           |            |            |             |
|                                    | PZ-15RF <sub>8</sub> -E   | •           |             |             |             |             |             |              |              |              |               |               |               |           |            |            |             |
|                                    | PZ-25RF <sub>8</sub> -E   |             | •           |             |             |             |             |              |              |              |               |               |               |           |            |            |             |
|                                    | PZ-35RF <sub>8</sub> -E   |             |             | •           |             |             |             |              |              |              |               |               |               |           |            |            |             |
| Standard                           | PZ-50RF <sub>8</sub> -E   |             |             |             | •           |             |             |              |              |              |               |               |               | •         | •          |            |             |
| Filter                             | PZ-65RF <sub>8</sub> -E   |             |             |             |             | •           |             |              |              |              |               |               |               |           |            |            |             |
|                                    | PZ-80RF <sub>8</sub> -E   |             |             |             |             |             | •           |              | •            |              |               |               |               |           |            |            |             |
|                                    | PZ-100RF <sub>8</sub> -E  |             |             |             |             |             |             | •            |              | •            |               |               |               |           |            | •          | •           |
|                                    | PZ-150RTF-E               |             |             |             |             |             |             |              |              |              | •             |               |               |           |            |            |             |
|                                    | PZ-250RTF-E               |             |             |             |             |             |             |              |              |              |               | •             | •             |           |            |            |             |
|                                    | PZ-15RFM-E                | •           |             |             |             |             |             |              |              |              |               |               |               |           |            |            |             |
|                                    | PZ-25RFM-E                |             | •           |             |             |             |             |              |              |              |               |               |               |           |            |            |             |
|                                    | PZ-35RFM-E                |             |             | •           |             |             |             |              |              |              |               |               |               |           |            |            |             |
|                                    | PZ-50RFM-E                |             |             |             | •           |             |             |              |              |              |               |               |               | •         | •          |            |             |
|                                    | PZ-65RFM-E                |             |             |             |             | •           |             |              |              |              |               |               |               |           |            |            |             |
|                                    | PZ-80RFM-E                |             |             |             |             |             | •           |              | •            |              |               |               |               |           |            |            |             |
|                                    | PZ-100RFM-E               |             |             |             |             |             |             | •            |              | •            |               |               |               |           |            | •          | •           |
|                                    | PZ-15RFP <sub>2</sub> -E  | •           |             |             |             |             |             |              |              |              |               |               |               |           |            |            |             |
|                                    | PZ-25RFP <sub>2</sub> -E  |             | •           |             |             |             |             |              |              |              |               |               |               |           |            |            |             |
|                                    | PZ-35RFP <sub>2</sub> -E  |             |             | •           |             |             |             |              |              |              |               |               |               |           |            |            |             |
|                                    | PZ-50RFP <sub>2</sub> -E  |             |             |             | •           |             |             |              |              |              |               |               |               | •         | •          |            |             |
| Advanced<br>High-efficiency        | PZ-65RFP <sub>2</sub> -E  |             |             |             |             | •           |             |              |              |              |               |               |               |           |            |            |             |
| Filters                            | PZ-80RFP <sub>2</sub> -E  |             |             |             |             |             | •           |              | •            |              |               |               |               |           |            |            |             |
|                                    | PZ-100RFP <sub>2</sub> -E |             |             |             |             |             |             | •            |              | •            |               |               |               |           |            | •          | •           |
|                                    | PZ-M6RTFM-E               |             |             |             |             |             |             |              |              |              | •             | •             | •             |           |            |            |             |
|                                    | PZ-F8RTFM-E               |             |             |             |             |             |             |              |              |              | •             | •             | •             |           |            |            |             |
|                                    | PZ-100SS-E                | •           |             |             |             |             |             |              |              |              |               |               |               |           |            |            |             |
| Duat Silanaar                      | PZ-150SS-E                |             | •           | •           |             |             |             |              |              |              |               |               |               |           |            |            |             |
| Duct Silencer                      | PZ-200SS-E                |             |             |             | •           | •           |             |              |              |              |               |               |               | •         | •          |            |             |
|                                    | PZ-250SS-E                |             |             |             |             |             | •           | •            |              |              |               |               |               |           |            | •          | •           |
| WiFi Interface                     | MAC-567IF-E               | •           | •           | •           | •           | •           | •           | •            | •            | •            | •             | •             | •             |           |            |            |             |
| Remote On/Off<br>Adapter           | PAC-SE55RA-E              | ●*1         | ●*1         | ●*1         | ●*1         | ●*1         | ●*1         | ●*1          | ●*1          | ●*1          | ●*1           | ●*1           | ●*1           | ●*1       | ●*1        | ●*1        | ●*1         |
| Connector Cable for Remote Display | PAC-SA88HA-E              | ●*2         | ●*2         | ●*2         | ●*2         | ●*2         | ●*2         | ●*²          | ●*2          | ●*2          | ●*²           | ●*²           | •*2           | ●*3       | ●*3        | ●*3        | ●*3         |

<sup>\*1:</sup> PAC-SE55RA-E is used for CN32 of Lossnay unit.

\*2: PAC-SA88HA-E is used for CN17 and CN26 of Lossnay unit.

\*3: PAC-SA88HA-E is used for CN51 and CN52 of Lossnay unit.

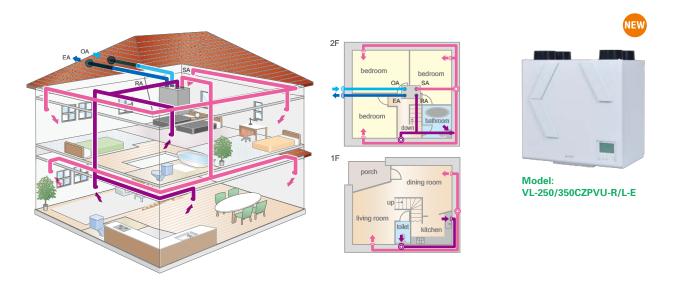
Note: Please refer to each product page for required number of pieces/sets.

# Residential Use Lossnay

Mitsubishi Electric offers you decentralized ventilation and centralized ventilation solutions for optimising your indoor air quality by Lossnay.

#### **Centralized Ventilation Solution**

One Lossnay unit provides 24-hour ventilation for the entire house, from living room and bedrooms to the bathroom. The heat recovery system provides fresh air at a comfortable air temperature. Sensible heat exchanger effectively reduces excess humidity in the winter.

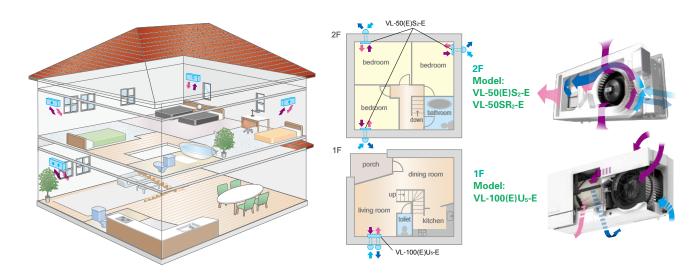


### **Decentralized Ventilation Solution**

Install the wall-mounted Lossnay in each room.

The heat recovery system provides fresh air at a comfortable air temperature.

Total heat exchangers effectively reduce heat loss.





## VL-250CZPVU-R/L-E, VL-350CZPVU-R/L-E



#### **Quiet Operation**



Noise is one of the most common concern for residential ventilation. Ultra quiet operation is achieved with the sirocco fan designed by Mitsubishi Electric. The balance between airflow and the static pressure is optimized and the fan rotation is minimized, which leads to a low noise level.

### **Air Purification**



The optional filter corresponding to NOx and PM2.5 removes the substance and improves the indoor air quality. They can be incorporated inside the unit without any filter box, which saves space.

- \*NOx: Nitrogen oxide which includes nitric oxide (NO) and nitrogen dioxide (NO2) etc.
- \*PM2.5: Airborne particulates that are 2.5µm or smaller in size.

## Wi-Fi Control



MELCloud is a Cloud-based solution for controlling Lossnay either locally or remotely by computer, tablet or smartphone via the Internet. You can control and check Lossnay via MELCloud from virtually anywhere an Internet connection is available. With MELCloud, you can use Lossnay much more easily and conveniently.

# **Key Features**

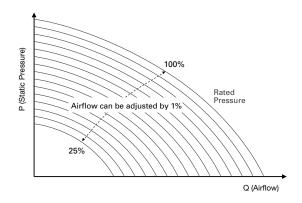
#### **Energy Efficient**

Under regulation (EU) NO 1254 / 2014, VL-CZPVU series has the highest energy-saving performance in its class. (ErP A+) It saves heating and cooling cost by minimizing the energy loss that occurs during ventilation.



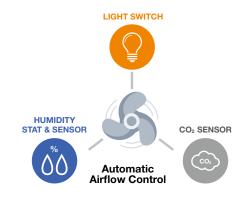
#### Variable Airflow Control

The default fan speed value (Fan speed 1: 30%, Fan speed 2: 50%, Fan speed 3: 70%, and Fan speed 4: 100%) of both supply air and exhaust air can be adjusted more flexibly. Within the range between 25% and 100%, airflow can be adjusted by 1% to satisfactorily meet the designed airflow rate. This enables to simplify the airflow setting in commissioning.



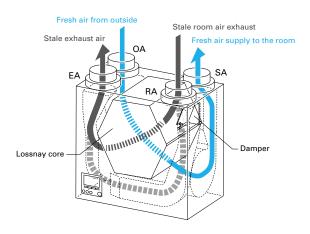
#### **External Airflow Control**

Using a 0-10V signal from the controllers such as the humidity stats and  $CO_2$  sensors, the airflow of the Lossnay unit can be changed. It is also connected to the light switch and can change to the boost operation (Input 220-240V). They are connected directly to the Lossnay units allowing the fan speed to automatically change according to the bathroom occupation, the  $CO_2$  level, and the humidity level.



#### **Automatic Bypass Mode**

It is possible to select manual switching or automatic switching between "Lossnay ventilation (with heat exchange)" and "Bypass ventilation (without heat exchange)". When the outside air is cooler than the indoor air in summer, the unit will bypass the heat exchanger and draw in outside air directly.



\* The figure shows VL-350CZPVU-L-E

#### **Wide Operating Temperature Range**

The VL-CZPVU series operating temperature range is down to -15°C. With a pre-heater, it is available down to -25°C.

- \* In areas where the outdoor air is below -20°C, electric shutters (local supply) is required in the OA duct in addition to the pre-heater.
- \* With the pre-heater, the OA temperature must be higher than -15  $^{\circ}\text{C}.$

#### **MELCloud for Lossnay**

MELCloud enables fast, easy remote control and monitoring for Lossnay. All you need is wireless computer connectivity in your home where Lossnay is installed and Internet connection on your mobile or fixed terminal. It can also be controlled with room air conditioner/ecodan simultaneously.

#### Key Control and monitoring features

- 1. Turn system on/off
- 2. Change the airflow & operating mode (Heat recovery / Bypass)
- 3. See the status of the filter (Maintenance notification)



#### **New Ventilator Selection Software**

The new selection tool enables the user to see the specification of the duty point including SFP, noise level, and exchange efficiency. It also provides the certification documents and CAD data for each models.

### Easy 3 steps

- 1. Input the required airflow and pressure.
- 2. Select model which matches the request.
- 3. Output the "Fan Data Sheet" by PDF.



#### YouTube Channel

In the new YouTube channel "Mitsubishi Electric Nakatsugawa Works", videos about ventilation products, remote controller commissioning, how to use the software is available.



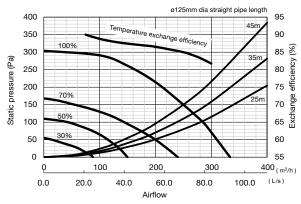
# Residential Lossnay Specifications

## VL-250CZPVU-R/L-E

| Electrical Power Supply      |                     |            | 220-240V/50H  | Iz, 220V/60Hz |           |  |  |  |
|------------------------------|---------------------|------------|---------------|---------------|-----------|--|--|--|
| Ventilation Mode             |                     |            | Heat recov    | very mode     |           |  |  |  |
| Fan speed                    |                     | FS4 (100%) | FS3 (70%)     | FS2 (50%)     | FS1 (30%) |  |  |  |
| Running Current (A)          |                     | 0.76       | 0.35          | 0.20          | 0.12      |  |  |  |
| Input Power (W)              |                     | 106        | 44            | 23            | 11        |  |  |  |
| Airflow                      | (m <sup>3</sup> /h) | 250        | 175           | 125           | 75        |  |  |  |
| All How                      | (l/s)               | 69         | 49            | 35            | 21        |  |  |  |
| External Static Pressure (Pa | a)                  | 150        | 74            | 38            | 14        |  |  |  |
| Temperature Exchange Effi    | ciency (%)          | 85         | 87            | 88            | 90        |  |  |  |
| Noise Level (dB)             |                     | 31         | 22            | 16            | 15>       |  |  |  |
| Energy Efficiency Class      |                     |            | Α             | <u>,</u> +    |           |  |  |  |
| Weight (kg)                  |                     | 26         |               |               |           |  |  |  |
| Dimensions (mm)              |                     |            | (W) 595 x (D) | 356 x (H) 565 |           |  |  |  |

- 1. The above values are at factory default.
  2. The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.
  3. The sound pressure level at 3m is spherical.
  4. Temperature exchange efficiency (%) is based on winter condition.
  5. Mitsubishi Electric measures figures in the chart according to EN13141-7:2010, and the characteristic curves are measured by chamber method.

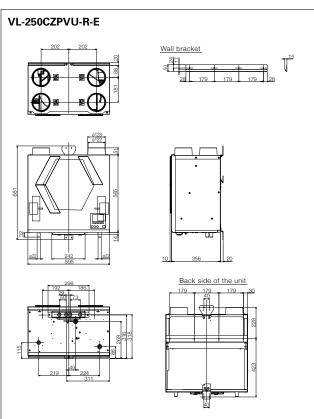
## **Characteristic Curves**

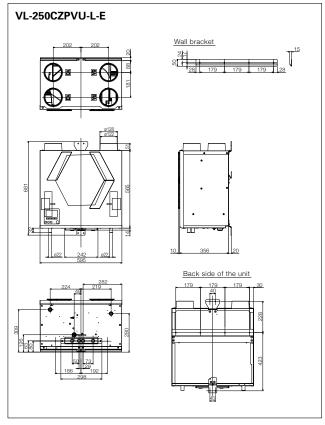


#### Attention

- Mitsubishi Electric measures figures in the chart according to EN13141-7:2010, and the characteristic curves are measured by chamber method.

**Dimensions** Unit: mm



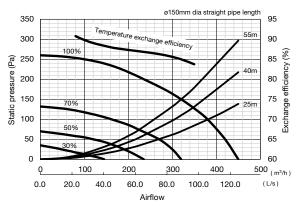


## VL-350CZPVU-R/L-E

| Electrical Power Supply      |                     |            | 220-240V/50H  | Hz, 220V/60Hz |           |  |  |  |
|------------------------------|---------------------|------------|---------------|---------------|-----------|--|--|--|
| Ventilation Mode             |                     |            | Heat recov    | very mode     |           |  |  |  |
| Fan speed                    |                     | FS4 (100%) | FS3 (70%)     | FS2 (50%)     | FS1 (30%) |  |  |  |
| Running Current (A)          |                     | 1.08       | 0.52          | 0.31          | 0.18      |  |  |  |
| Input Power (W)              |                     | 155        | 71            | 37            | 19        |  |  |  |
| Airflow                      | (m <sup>3</sup> /h) | 320        | 224           | 160           | 96        |  |  |  |
| All How                      | (l/s)               | 89         | 62            | 44            | 27        |  |  |  |
| External Static Pressure (Pa | a)                  | 150        | 74            | 38            | 14        |  |  |  |
| Temperature Exchange Effi    | ciency (%)          | 85         | 87            | 88            | 90        |  |  |  |
| Noise Level (dB)             |                     | 35         | 26            | 19            | 15>       |  |  |  |
| Energy Efficiency Class      |                     |            | Δ             | \+            |           |  |  |  |
| Weight (kg)                  |                     | 32         |               |               |           |  |  |  |
| Dimensions (mm)              |                     |            | (W) 658 x (D) | 432 x (H) 623 |           |  |  |  |

- 1. The above values are at factory default.
  2. The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.
  3. The sound pressure level at 3m is spherical.
  4. Temperature exchange efficiency (%) is based on winter condition.
  5. Mitsubishi Electric measures figures in the chart according to EN13141-7:2010, and the characteristic curves are measured by chamber method.

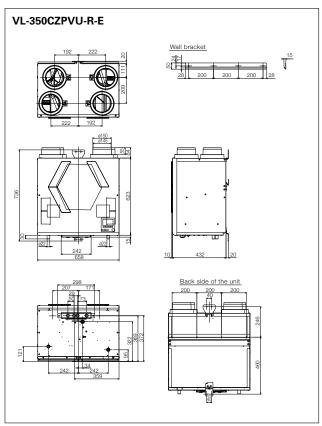
## **Characteristic Curves**

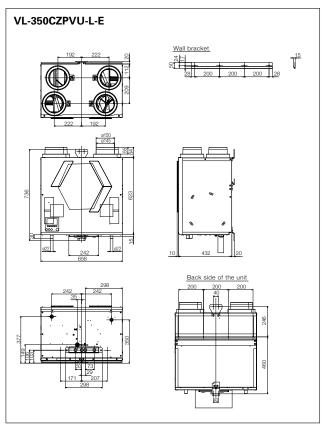


#### ■ Attention

Mitsubishi Electric measures figures in the chart according to EN13141-7:2010, and the characteristic curves are measured by chamber method.

**Dimensions** Unit: mm

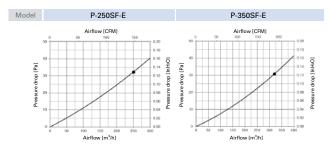


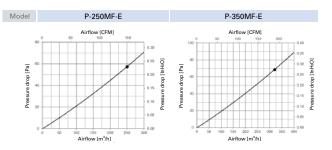


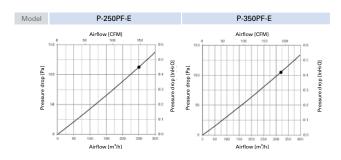
## **Filters**

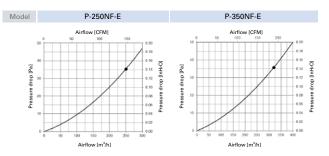
| Тур            | 9               | Replacement Filter Standard Filter |                        | Medium Efficiency<br>Filter | PM2.5 Filter           | NOx Filter             |
|----------------|-----------------|------------------------------------|------------------------|-----------------------------|------------------------|------------------------|
| Desiç          | gn              |                                    |                        |                             |                        |                        |
| Mod            | el              | P-250F-E<br>P-350F-E               | P-250SF-E<br>P-350SF-E | P-250MF-E<br>P-350MF-E      | P-250PF-E<br>P-350PF-E | P-250NF-E<br>P-350NF-E |
| Classification | EN779<br>(2012) | G3                                 | G4                     | M6                          | M6                     | NO2 90%                |
| Ciassification | ISO 16890       | Coarse 55%                         | Coarse 90%             | ePM10 80%                   | ePM2.5 50%             | 1402 90 70             |

## Pressure loss characteristic









## **Remote Controller Cover**

P-RCC-E

With Remote Controller Cover, the remote controller can be installed apart from the unit.



#### Model: VL-220CZGV-E

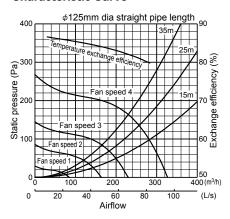
| Model                          |         | VL-220CZGV-E            |             |             |             |  |  |  |
|--------------------------------|---------|-------------------------|-------------|-------------|-------------|--|--|--|
| Electrical power supply        |         | 220-240V/50Hz 220V/60Hz |             |             |             |  |  |  |
| Ventilation mode               |         |                         | Heat reco   | very mode   |             |  |  |  |
| Fan speed                      |         | Fan speed 4             | Fan speed 3 | Fan speed 2 | Fan speed 1 |  |  |  |
| Running current                |         | 0.60                    | 0.29        | 0.18        | 0.11        |  |  |  |
| Input power (W)                |         | 80                      | 35          | 18.5        | 8.5         |  |  |  |
| Airflow                        | (m³/h)  | 230                     | 165         | 120         | 65          |  |  |  |
| Airilow                        | (L/s)   | 64                      | 46          | 33          | 18          |  |  |  |
| External static pressure (Pa)  |         | 164                     | 84          | 44          | 13          |  |  |  |
| Temperature exchange efficie   | ncy (%) | 82                      | 84          | 85          | 86          |  |  |  |
| Noise level (dB)               |         | 31                      | 25          | 19          | 14          |  |  |  |
| Weight (kg)                    |         |                         | 3           | 31          |             |  |  |  |
| Specific energy consumption of | class   |                         | A           |             |             |  |  |  |

- 1. The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz. The noise is measured at 1.5m under the center of the unit in an anechoic chamber.
- in an anection charmber.

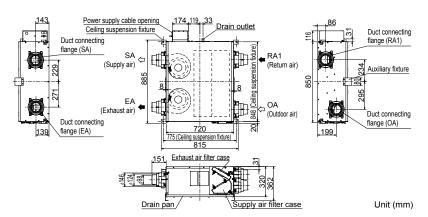
  2. Temperature exchange efficiency (%) is based on winter condition.

  3. Mitsubishi Electric measures figures in the chart according to Japan Industrial Standard (JIS B 8628), therefore the characteristic curves are measured by chamber method.

#### **Characteristic Curve**



#### **Dimensions**

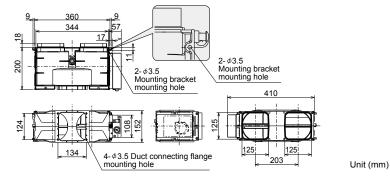


# **Optional Parts**

## Parts for VL-220CZGV-E

**Bypass Damper** Model: P-133DUE-E





#### Filters

| Туре                           | Standard Replacement Filter | Medium Efficiency Exhaust Air Filter | High Efficiency Supply Air Filter |
|--------------------------------|-----------------------------|--------------------------------------|-----------------------------------|
| Design                         |                             | Optional                             | Optional                          |
| Model                          | P-220F-E                    | P-220EMF-E                           | P-220SHF-E                        |
| Classification<br>(EN779:2012) | G3                          | G4                                   | M6                                |
| Classification<br>(ISO16890)   | Coarse 35%                  | ePM10 50%                            | ePM10 70%                         |

# Decentralized ventilation: VL-50(E)S2-E, VL-50SR2-E and VL-100(E)U5-E

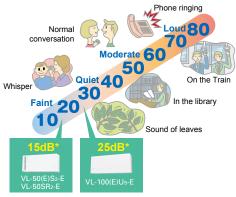
#### **Product Merit**

#### Air supplied and Exhausted Simultaneously

Supply and exhaust air simultaneously while transferring the heat.



The low noise level is good for bedrooms and children's rooms.



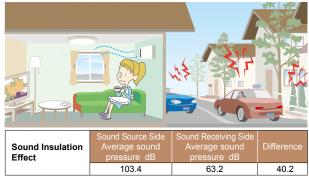
#### \*Condition: 50Hz. 230V. low fan spee

#### **Energy Efficient**

- Total heat exchanger minimizes heat loss.
- Achieve over 80%\* temperature efficiency.
- $^*\mbox{VL-}100(\mbox{E})\mbox{U}_5\mbox{-E}$  at low fan speed in 230V 50Hz  $^*\mbox{VL-}50(\mbox{E})\mbox{S}_2\mbox{-E}$  at low fan speed in 230V 50Hz

#### **Sound Insulation**

A sound insulation effect reduces noise generated outside.



- \*Tested based on VL-08S2-AE
- \*Measured by average sound pressure level of more than 30dB in 500Hz according to JIS A1416.
- VL-08S2-AE is a Japanese dedicated model equivalent to VL-50(E)S2-E

#### **Product Features**

#### Stylish Design

Match any interior decor to create a comfortable room.

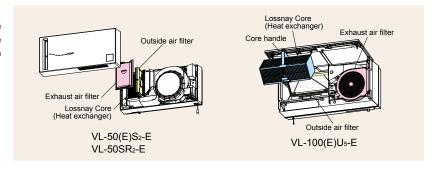




VL-100(E)U5-E

### Easy Maintenance

The only maintenance required is cleaning the outside-air filter and exhaust-air filter. Filters are easily accessible, making quick and thorough cleaning possible.



### Flexible Installation for Only VL-50(E)S<sub>2</sub>-E and VL-50SR<sub>2</sub>-E

Not only horizontal installation but also vertical installation is available. It can fit various types of rooms with flexible installation.

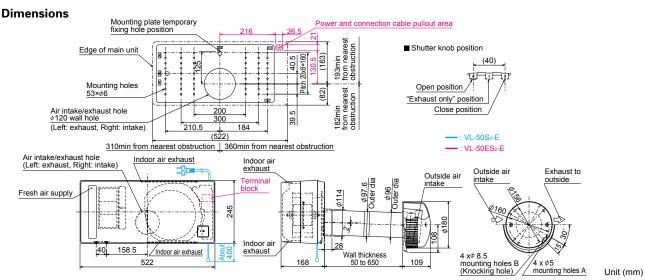


# Residential Lossnay Specifications

#### Model: VL-50S2-E (Pull-Switch Model) and VL-50ES2-E (Wall-Switch Model)

| Model                               |      | VL-50(E)S₂-E |      |              |      |       |           |      |
|-------------------------------------|------|--------------|------|--------------|------|-------|-----------|------|
| Electrical power supply             | 220V | 220V/50Hz    |      | 230V/50Hz 24 |      | /50Hz | 220V/60Hz |      |
| Fan speed                           | High | Low          | High | Low          | High | Low   | High      | Low  |
| Airflow (m³/h)                      | 51   | 15           | 52.5 | 16           | 54   | 17    | 54        | 17   |
| Power consumption (W)               | 19   | 4            | 20   | 4.5          | 21   | 5     | 21        | 5.5  |
| Temperature exchange efficiency (%) | 70   | 86           | 69   | 85           | 68   | 84    | 68        | 84   |
| Noise level (dB)                    | 36.5 | 14           | 37   | 15           | 37.5 | 15.5  | 37.5      | 15.5 |
| Weight (kg)                         | 6.2  |              |      |              |      |       |           |      |
| Specific energy consumption class   | С    |              |      |              |      |       |           |      |

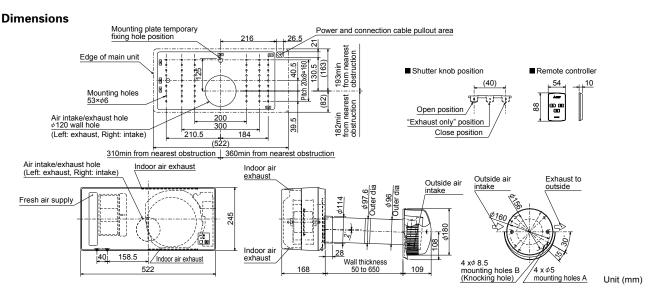
<sup>\*</sup>Figures in the chart were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position.



## Model: VL-50SR<sub>2</sub>-E (Remote Controller Model)

| Model                               |      | VL-50SR₂-E |      |       |      |       |      |       |  |  |
|-------------------------------------|------|------------|------|-------|------|-------|------|-------|--|--|
| Electrical power supply             | 220V | 220V/50Hz  |      | /50Hz | 240V | /50Hz | 220V | /60Hz |  |  |
| Fan speed                           | High | Low        | High | Low   | High | Low   | High | Low   |  |  |
| Airflow (m³/h)                      | 51   | 15         | 52.5 | 16    | 54   | 17    | 54   | 17    |  |  |
| Power consumption (W)               | 19   | 4.5        | 20   | 5     | 21   | 5.5   | 21   | 6     |  |  |
| Temperature exchange efficiency (%) | 70   | 86         | 69   | 85    | 68   | 84    | 68   | 84    |  |  |
| Noise level (dB)                    | 36.5 | 14         | 37   | 15    | 37.5 | 15.5  | 37.5 | 15.5  |  |  |
| Weight (kg)                         | 6.2  |            |      |       |      |       |      |       |  |  |
| Specific energy consumption class   |      |            |      | (     | 2    |       |      |       |  |  |

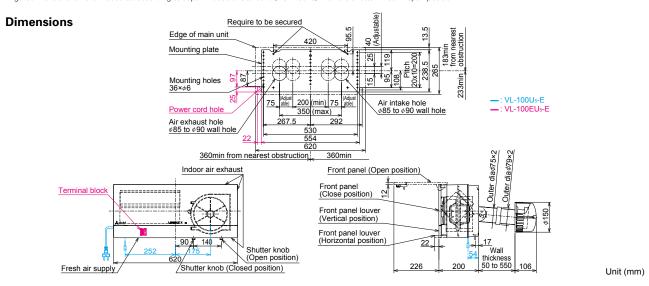
<sup>\*</sup>Figures in the chart were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position.



## Model: VL-100U5-E (Pull-Switch Model) and VL-100EU5-E (Wall-Switch Model)

| Model                               |       | VL-100(E)U₅-E |      |       |       |       |           |     |  |
|-------------------------------------|-------|---------------|------|-------|-------|-------|-----------|-----|--|
| Electrical power supply             | 220V, | 220V/50Hz     |      | /50Hz | 240V/ | /50Hz | 220V/60Hz |     |  |
| Fan speed                           | High  | Low           | High | Low   | High  | Low   | High      | Low |  |
| Airflow (m³/h)                      | 100   | 55            | 105  | 60    | 106   | 61    | 103       | 57  |  |
| Power consumption (W)               | 30    | 13            | 31   | 15    | 34    | 17    | 34        | 17  |  |
| Temperature exchange efficiency (%) | 73    | 80            | 73   | 80    | 72    | 79    | 73        | 80  |  |
| Noise level (dB)                    | 36.5  | 24            | 37   | 25    | 38    | 27    | 38        | 25  |  |
| Weight (kg)                         | 7.5   |               |      |       |       |       |           |     |  |
| Specific energy consumption class   |       | В             |      |       |       |       |           |     |  |

<sup>\*</sup>Figures in the chart were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position.



# **Optional Parts**

## Optional Parts for VL-50(E)S<sub>2</sub>-E and VL-50SR<sub>2</sub>-E

Filter, Extension Pipe and Stainless Hood

| Туре                           | Replacement Filter    | High Efficiency Filter | Extension Pipe                                     | Joint                    | Stainless Hood         |
|--------------------------------|-----------------------|------------------------|--|--------------------------|------------------------|
| Design                         |                       |                        |  |                          |                        |
| Model                          | P-50F <sub>2</sub> -E | P-50HF <sub>2</sub> -E | P-50P-E  | P-50PJ-E                 | P-50VSQ5-E             |
| Feature                        | -                     | -                      | Total length when connected to the joint is 350mm. | Joint for extension pipe | Stylish stainless hood |
| Classification<br>(EN779:2012) | G3                    | -                      | -  | -                        | -                      |
| Classification<br>(ISO16890)   | Coarse 35%            | ePM <sub>10</sub> 75%  | -  | -                        | -                      |

# Optional Parts for VL-100(E)U<sub>5</sub>-E

Filter and Extension Pipe

| Туре                           | Replacement Filter     | High Efficiency Filter | Extension Pipe                                     | Joint  |
|--------------------------------|------------------------|------------------------|--|--|
| Design                         |                        |                        |  | 00   |
| Model                          | P-100F <sub>5</sub> -E | P-100HF5-E             | P-100P-E   | P-100PJ-E                                    |
| Feature                        | -                      | -                      | Total length when connected to the joint is 300mm. | Joint for extension pipe     Screw-in method |
| Classification<br>(EN779:2012) | G3                     | M6                     | -  | -  |
| Classification<br>(ISO16890)   | Coarse 35%             | ePM <sub>10</sub> 70%  | -  | -  |