



SPLIT-TYPE AIR CONDITIONERS

Changes for the Better

Mitsubishi
Electric
EQ quality

⚠ 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

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<http://Global.MitsubishiElectric.com/>

**Wrap Yourself in Comfort and Quiet
Eco-conscious Technologies from Japan**

**Full Product Line Catalogue
2022**



Environmental Sustainability Vision 2050

Environmental Declaration

Protect the air, land, and water with our hearts and technologies to sustain a better future for all.



Environmental
Sustainability
Vision 2 0 5 0

To solve various factors that lead to environment issues, the Mitsubishi Electric Group shall unite the wishes of each and every person, and strive to create new value for a sustainable future.

Three Environmental Action Guidelines

1

Apply diverse technologies in wide-ranging business areas to solve environmental issues

2

Challenge to develop business innovations for future generations

3

Publicize and share new values and lifestyles

Key Initiatives

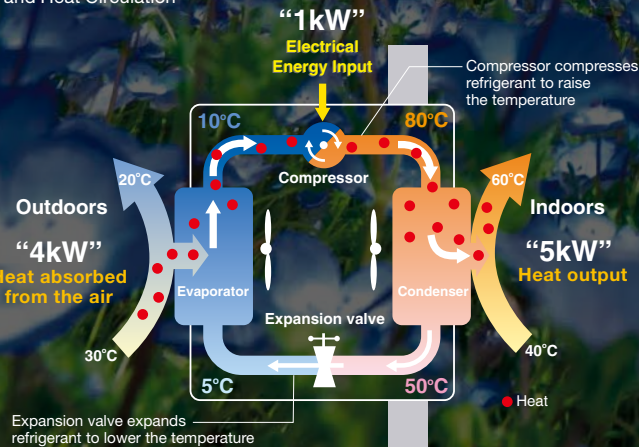
- Climate Change Measures
- Resource Circulation
- Live in Harmony with Nature

- Long-term Activities
- Innovation
- Nurturing Human Resources

- Understanding Needs
- Co-create and Disseminate New Values
- Live in Harmony with the Region

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

Heat Pump Principle (When Heating) <Case of COP 5.0>
Refrigerant and Heat Circulation

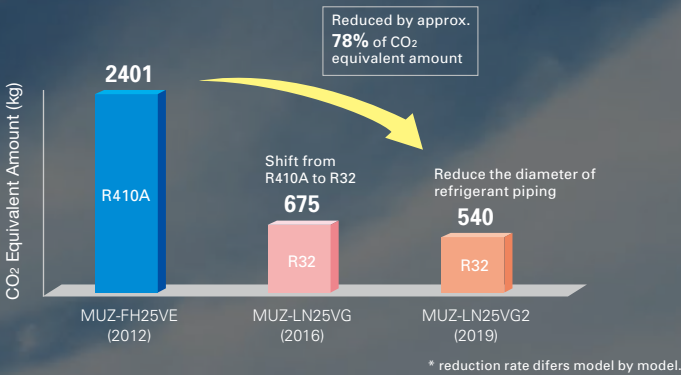


Mitsubishi Electric takes on the challenge of creating new value and contribute to a sustainable future in order to solve various environmental problems.

Preventing Global Warming

Mitsubishi Electric is actively introducing R32 refrigerant which has a global warming potential approximately 1/3 that of R410A refrigerant. Not only by shifting from R410A to R32 but by decreasing the diameter of refrigerant piping, we are also striving to reduce the amount of refrigerant usage. Through these activities, we have achieved significant reduction in CO₂ equivalent amount compared to conventional models and realised minimizing the negative impact to the environment more than ever.

Reducing the amount of refrigerant usage



Effective use of materials (Reduce & Recycle)

1. Accelerating the downsizing technology to reduce material use while balancing energy saving performance.
2. Designing products that are easy to separate and recycle.
3. All models are designed for WEEE and RoHS (II) compliance.*

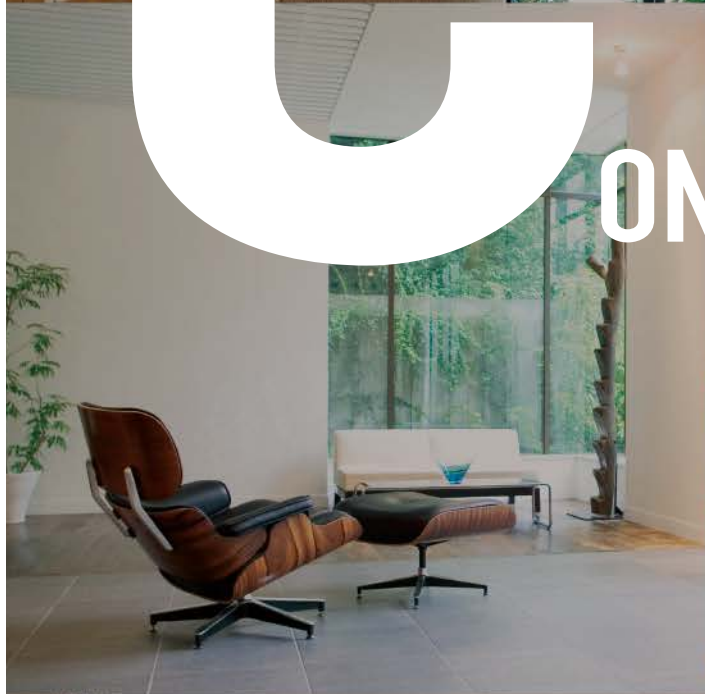
*WEEE and RoHS directive: The Waste Electrical and Electronic Equipment (WEEE) Directive is a recycling directive for this type of equipment, while the Restrictions of Hazardous Substances (RoHS) Directive is an EU directive restricting the use of ten specified substances in electronic and electrical devices. In the EU, it is no longer possible (from July 2019) to sell products containing any of the ten substances.

Balancing 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 heat pump heating system to the cold regions to replace combustion heaters. |
| 4. Dual Barrier Coating Dual Barrier Material | Prevents the indoor unit from getting dirty, delivering you clean air. | Keeping the inside of air conditioner clean leads to efficient operation and energy saving. |

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AIR-TO-WATER

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Air Conditioners

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M/S/P/Multi/Zubadan/ATW

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LOSSNAY SYSTEM

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RW Series

Hyper Heating
Flagship Model

Available Now

New releases in 2022

M SERIES



MSZ-DW25/35/50VF

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MSZ-HR25/35/42/50VFK
MSZ-HR60/71VFK

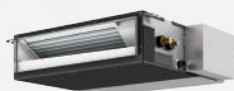
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S SERIES



SLZ-M

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SEZ-M

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P SERIES



Power Inverter
SERIES

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Standard Inverterr
SERIES

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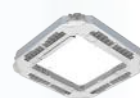
PSA-M

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PLA-(Z)M

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PLP-U160ELR-E

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PEAD-M

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PKA-M

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PCA-M KA

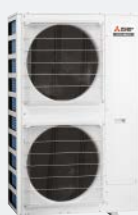
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PCA-M HA

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MULTI SPLIT SERIES



PUMY-P250/300YBM

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POWERFUL HEATING SERIES



MFZ-KW25/35/50/60VG

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MSZ-RW25/35/50VG

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ATW SERIES



D generation Indoor Unit

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PUZ-WM50

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SUZ-SWM40/60/80

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LOSSNAY SERIES



VL-250/350CZPVU

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PUZ-HWM140

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PUZ-WM60/85/112

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PUD-SWM60/80/100/120
PUD-SHWM60/80/100/120/140

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LINE-UP

M SERIES

INVERTER Models

| Model Name | | 1.5kW | 1.8kW | 2.0kW | 2.2kW | 2.5kW | 3.5kW | 4.2kW | 5.0kW | 6.0kW | 7.1kW | Page |
|----------------|---|-----------------------|-------------------------------|-----------------------|------------------------------|----------------------------|----------------------------|---------------------|---------------------|----------------|---------|------|
| | | 1-phase | 1-phase | 1-phase | 1-phase | 1-phase | 1-phase | 1-phase | 1-phase | 1-phase | 1-phase | |
| Wall-mounted | MSZ-L Series R32 R410A *2  | | WVRB Multi connection only | | | WVRB SINGLE | WVRB SINGLE | | WVRB SINGLE | WVRB SINGLE | | 13 |
| | MSZ-A Series R32 R410A *1  | SINGLE | | SINGLE | | | | | | | | 19 |
| |  | | | | | SINGLE _H | SINGLE _H | SINGLE _H | SINGLE _H | SINGLE | SINGLE | 19 |
| | MSZ-E Series R32 R410A *1  | | WSB Multi connection only | | WSB Multi connection only | WSB SINGLE _H | WSB SINGLE _H | WSB SINGLE | WSB SINGLE | | | 25 |
| | MSZ-BT Series R32  | | | SINGLE | | SINGLE | SINGLE | | SINGLE | | | 27 |
| | MSZ-HR Series R32  | | | | | SINGLE | SINGLE | SINGLE | SINGLE | SINGLE | SINGLE | 29 |
| | MSZ-DW Series R32  | | | | | SINGLE | SINGLE | | SINGLE | | | 31 |
| | MSY-TP Series R32  | | | | | | SINGLE | | SINGLE | | | 33 |
| | MSZ-F Series R410A  | | | | | SINGLE | SINGLE | | SINGLE | | | 35 |
| | MSZ-S Series R410A  | Multi connection only | | Multi connection only | | | | | | | | 37 |
| |  | | | | | SINGLE _H | SINGLE _H | SINGLE _H | SINGLE _H | | | 37 |
| | MSZ-G Series R410A  | | | | | | | | | SINGLE | SINGLE | 37 |
| | MSZ-W Series R410A  | | | | | SINGLE | SINGLE | | | | | 41 |
| | MSZ-D Series R410A  | | | | | SINGLE | SINGLE | | | | | 43 |
| | MSZ-H Series R410A  | | | | | SINGLE | SINGLE | | SINGLE | SINGLE | SINGLE | 45 |
| Compact floor | MFZ Series R32  | | | | | SINGLE | SINGLE | | SINGLE | SINGLE | | 47 |
| 1-way cassette | MLZ Series R32  | | | | | SINGLE | SINGLE | | SINGLE | | | 49 |

*1: 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 |

S SERIES









INVERTER Models

| Model Name | | 1.5kW | 2.5kW | 3.5kW | 5.0kW | 6.0kW | 7.1kW | 10.0kW | 12.5kW | 14.0kW | Page |
|---------------------------|---|---|----------|----------|----------|----------|----------------|----------------|-----------------------------|---------------------|------|
| | | 1-phase | 1-phase | 1-phase | 1-phase | 1-phase | 1-phase | 1- & 3-phase | 1- & 3-phase | 1- & 3-phase | |
| 2 x 2 cassette | SLZ Series R32 R410A |  | | | | | | | | | 59 |
| |  | | SINGLE | SINGLE | SINGLE | SINGLE | TWIN | TWIN TRIPLE | TWIN TRIPLE QUADRUPLE | TRIPLE QUADRUPLE | |
| Compact ceiling-concealed | SEZ Series R32 R410A | | | | | | | | | | 65 |
| |  | | SINGLE * | SINGLE * | SINGLE * | SINGLE * | SINGLE TWIN | TWIN TRIPLE | TWIN TRIPLE QUADRUPLE | TRIPLE QUADRUPLE | |

* 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 |
|--------------------------|---|---|----------|----------|----------|------------------|----------------|--------------------------|-----------------------------|-----------------------------|------|
| | | 1-phase | 1-phase | 1-phase | 1-phase | 1- & 3-phase | 1- & 3-phase | 1- & 3-phase | 3-phase | 3-phase | |
| 4-way cassette | PLA Series R32 |  | SINGLE | SINGLE | SINGLE | SINGLE TWIN * | SINGLE TWIN | SINGLE TWIN TRIPLE | TWIN TRIPLE QUADRUPLE | TWIN TRIPLE QUADRUPLE | 82 |
| |  | | | | | | | | | | |
| Ceiling-concealed | PEAD Series R32 |  | SINGLE | SINGLE | SINGLE | SINGLE TWIN * | SINGLE TWIN | SINGLE TWIN TRIPLE | TWIN TRIPLE QUADRUPLE | TWIN TRIPLE QUADRUPLE | 92 |
| |  | | | | | | | | | | |
| | PEA Series R32 |  | | | | | | | SINGLE | SINGLE | 97 |
| Wall-mounted | PKA Series R32 |  | SINGLE * | SINGLE * | SINGLE * | SINGLE TWIN * | SINGLE TWIN | TWIN TRIPLE | TWIN TRIPLE QUADRUPLE | TRIPLE QUADRUPLE | 100 |
| Ceiling-suspended | PCA-KA Series R32 |  | SINGLE | SINGLE | SINGLE | SINGLE TWIN * | SINGLE TWIN | SINGLE TWIN TRIPLE | TWIN TRIPLE QUADRUPLE | TWIN TRIPLE QUADRUPLE | 105 |
| for Professional Kitchen | PCA-HA Series* R32 |  | | | | SINGLE * | | TWIN * | | TRIPLE * | 110 |
| Floor-standing | PSA Series R32 |  | | | | SINGLE | SINGLE | SINGLE | SINGLE TWIN | TWIN TRIPLE | 113 |

R410A POWER INVERTER Models / R410A STANDARD INVERTER Models

* R32 Power Inverter Model only

| Model Name | | 3.5kW | 5.0kW | 6.0kW | 7.1kW | 10.0kW | 12.5kW | 14.0kW | 20.0kW | 25.0kW | Page |
|--------------------------|---|---|----------|----------|----------|------------------|----------------|--------------------------|-----------------------------|-----------------------------|------|
| | | 1-phase | 1-phase | 1-phase | 1-phase | 1- & 3-phase | 1- & 3-phase | 1- & 3-phase | 3-phase | 3-phase | |
| 4-way cassette | PLA Series R410A |  | SINGLE | SINGLE | SINGLE | SINGLE TWIN * | SINGLE TWIN | SINGLE TWIN TRIPLE | TWIN TRIPLE QUADRUPLE | TWIN TRIPLE QUADRUPLE | 82 |
| |  | | | | | | | | | | |
| Ceiling-concealed | PEAD Series R410A |  | SINGLE | SINGLE | SINGLE | SINGLE TWIN * | SINGLE TWIN | SINGLE TWIN TRIPLE | TWIN TRIPLE QUADRUPLE | TWIN TRIPLE QUADRUPLE | 92 |
| |  | | | | | | | | | | |
| | PEA Series R410A |  | | | | | | | SINGLE | SINGLE | 97 |
| Wall-mounted | PKA Series R410A |  | SINGLE * | SINGLE * | SINGLE * | SINGLE TWIN * | SINGLE TWIN | TWIN TRIPLE | TWIN TRIPLE QUADRUPLE | TRIPLE QUADRUPLE | 100 |
| Ceiling-suspended | PCA-KA Series R410A |  | SINGLE | SINGLE | SINGLE | SINGLE TWIN * | SINGLE TWIN | SINGLE TWIN TRIPLE | TWIN TRIPLE QUADRUPLE | TWIN TRIPLE QUADRUPLE | 105 |
| for Professional Kitchen | PCA-HA Series* R410A |  | | | | SINGLE * | | TWIN * | | TRIPLE * | 110 |
| Floor-standing | PSA Series R410A |  | | | | SINGLE * | SINGLE | SINGLE | SINGLE TWIN | TWIN TRIPLE | 113 |

* Power Inverter Models only

LINE-UP

MXZ SERIES INVERTER Models

| Model Name | Capacity Class | Page |
|---|---------------------|------|
| up to 2 indoor units MXZ-2F33VF3 R32 | 3.3kW <1-phase> | 121 |
| up to 2 indoor units MXZ-2F42VF3 R32 | 4.2kW <1-phase> | 121 |
| up to 2 indoor units MXZ-2F53VF(H)3 R32 | 5.3kW <1-phase> | 121 |
| up to 3 indoor units MXZ-3F54VF3 R32 | 5.4kW <1-phase> | 121 |
| up to 3 indoor units MXZ-3F68VF3 R32 | 6.8kW <1-phase> | 121 |
| up to 4 indoor units MXZ-4F72VF3 R32 | 7.2kW <1-phase> | 121 |
| up to 4 indoor units MXZ-4F80VF3 R32 | 8.0kW <1-phase> | 121 |
| up to 4 indoor units MXZ-4F83VF R32 | 8.3kW <1-phase> | 121 |
| up to 5 indoor units MXZ-5F102VF R32 | 10.2kW <1-phase> | 121 |
| up to 6 indoor units MXZ-6F122VF R32 | 12.2kW <1-phase> | 121 |
| up to 2 indoor units MXZ-2HA40VF R32 | 4.0kW <1-phase> | 125 |
| up to 2 indoor units MXZ-2HA50VF R32 | 5.0kW <1-phase> | 125 |
| up to 3 indoor units MXZ-3HA50VF R32 | 5.0kW <1-phase> | 125 |

| Model Name | Capacity Class | Page |
|--|---------------------|------|
| up to 2 indoor units MXZ-2D33VA R410A | 3.3kW <1-phase> | 123 |
| up to 2 indoor units MXZ-2D42VA2 R410A | 4.2kW <1-phase> | 123 |
| up to 2 indoor units MXZ-2D53VA (H)2 R410A | 5.3kW <1-phase> | 123 |
| up to 3 indoor units MXZ-3E54VA R410A | 5.4kW <1-phase> | 123 |
| up to 3 indoor units MXZ-3E68VA R410A | 6.8kW <1-phase> | 123 |
| up to 4 indoor units MXZ-4E72VA R410A | 7.2kW <1-phase> | 123 |
| up to 4 indoor units MXZ-4E83VA R410A | 8.3kW <1-phase> | 123 |
| up to 5 indoor units MXZ-5E102VA R410A | 10.2kW <1-phase> | 123 |
| up to 6 indoor units MXZ-6D122VA2 R410A | 12.2kW <1-phase> | 123 |
| up to 2 indoor units MXZ-2DM40VA R410A | 4.0kW <1-phase> | 127 |
| up to 3 indoor units MXZ-3DM50VA R410A | 5.0kW <1-phase> | 127 |

PUMY SERIES INVERTER Models

| Model Name | 12.5kW 1 & 3-phase | 14.0kW 1 & 3-phase | 15.5kW 1 & 3-phase | 22.4kW 3-phase | 28.0kW 3-phase | 33.5kW 3-phase | Page |
|-------------------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|------|
| PUMY-SP R410A | ✓ | ✓ | ✓ | | | | 129 |
| PUMY-P R410A | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 131 |

POWERFUL HEATING SERIES INVERTER Models

| Model Name | 2.5kW 1-phase | 3.5kW 1-phase | 5.0kW 1-phase | 5.3kW 1-phase | 6.0kW 1-phase | 8.3kW 1-phase | 10.0kW 1 & 3-phase | 12.5kW 3-phase | Page |
|---------------|---|------------------|------------------|------------------|------------------|------------------|-----------------------|-------------------|------|
| Wall-mounted | MSZ-RW VGHZ Series R32 R410A | SINGLE H | SINGLE H | SINGLE H | | | | | 141 |
| | MSZ-LN VGHZ Series R32 R410A | SINGLE H | SINGLE H | SINGLE H | | | | | 145 |
| | MSZ-FT VGHZ Series R32 | SINGLE H | SINGLE H | SINGLE H | | | | | 147 |
| | MSZ-FH VEHZ Series R410A | SINGLE H | SINGLE H | SINGLE H | | | | | 149 |
| Compact floor | MFZ-KW Series R32 | SINGLE H | SINGLE H | SINGLE H | | SINGLE H | | | 151 |
| ZUBADAN | 4-way cassette PLA Series R32 R410A | | | | | | SINGLE TWIN | SINGLE TWIN | 154 |
| | Ceiling-concealed PEAD Series R32 R410A | | | | | | SINGLE TWIN | | 156 |
| | Wall-mounted PKA Series R32 R410A | | | | | | SINGLE TWIN | | 157 |
| Multi split | MXZ-F VFHZ Series MXZ-E VAHZ Series R32 R410A | | | | 2PORT H | 4PORT H | | | 160 |

* R410A is for PUMY connection.

H: Freeze-prevention heater is included as standard equipment.

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

R32

INDOOR UNIT

Hydrobox, cylinder unit



OUTDOOR UNIT

| Packaged type | Small capacity (Under 5kW)* | Medium capacity (6.0kW–14kW)* |
|----------------------------------|--------------------------------|----------------------------------|
| ZUBADAN New Generation | | PUZ-HWM140 |
| POWER INVERTER | PUZ-WM50 | PUZ-WM60/85/112 |
| Split type | Small capacity (Under 5kW)* | Medium capacity (6.0kW–14kW)* |
| ZUBADAN New Generation | | PUD-SHWM60/80/100/120/140 |
| POWER INVERTER | | PUD-SWM60/80/100/120 |
| Eco Inverter | SUZ-SWM40/60 | SUZ-SWM80 |

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

R410A

INDOOR UNIT

Hydrobox, cylinder unit



OUTDOOR UNIT

| Split type | Medium capacity (7.5kW–14kW)* | Large capacity (≥16kW)* |
|----------------------------------|----------------------------------|----------------------------|
| ZUBADAN New Generation | PUHZ-SHW80/112 | PUHZ-SHW140 |
| POWER INVERTER | PUHZ-SHW230 | |
| | 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 PUHZ-FRP71 | R410A PUMY-P112/125/140 | R32 EHGT17D-YM9ED |

LOSSNAY SERIES

| Centralized Ventilation | | | | | Decentralized Ventilation | |
|-------------------------|---------------------|-------------|----------------|-----------------------------------|---------------------------|------------------------------|
| Ceiling Concealed Type | | | | | Vertical Type | Wall Mounted Type |
| LGH-RVX Series | LGH-RVXT Series | LGH-RVS | GUF Series | GUG Series (Optional Unit) | VL-CZPVU Series | VL-100(E)U-E |
| | | | | | | VL-50(E)S-E VL-50SR-E |
















M

SERIES



SELECTION

Choose the model that best matches room conditions.

| SELECT SERIES | | |
|---|---|--|
| A multiple series line-up to choose from, each with various outstanding features. In addition to inverter-equipped models, constant-speed, floor-standing and cassette models can be selected. Choose the best series to match usage needs. | | |
| Wall-mounted Units | | |
| MSZ-L SERIES R32 R410A *2  25/35/50 25/35 25/35 SEER A+++ SCOP A+++ MXZ connection | MSZ-A SERIES R32 R410A *1 MSZ-AP60/71VG  MSZ-AP15/20VG 20/25/35 25-60 SEER A+++ SCOP A+++ MXZ connection | MSZ-E SERIES R32 R410A *1  25/35 25/35 SEER A+++ SCOP A+++ MXZ connection |
| MSZ-BT SERIES R32  25/35 SEER A+++ SCOP A+++ MXZ connection | MSZ-HR SERIES R32 MSZ-HR60/71VF(K)  MSZ-HR25-50VF(K) 25/35 25/35 SEER A+++ SCOP A+++ MXZ connection | MSZ-DW SERIES R32  25/35 25/35 SEER A+++ SCOP A+++ MXZ connection |
| MSY-TP SERIES R32  35 SEER A+++ | MSZ-F SERIES R410A  25/35 25/35 SEER A+++ SCOP A+++ MXZ connection | MSZ-S SERIES R410A MSZ-SF25-50VE  MSZ-SF15/20VA 25/35 25/35 SEER A+++ SCOP A+++ MXZ connection |
| MSZ-G SERIES R410A  25/35 25/35 SEER A+++ SCOP A+++ MXZ connection | MSZ-W SERIES R410A  25/35 25/35 SEER A+++ SCOP A+++ MXZ connection | MSZ-D SERIES R410A  25/35 25/35 SEER A+++ SCOP A+++ MXZ connection |
| MSZ-H SERIES R410A MSZ-HJ60/71  MSZ-HJ25/35/50 50/60/71 50/60/71 SEER A+++ SCOP A+++ MXZ connection | Floor-standing MFZ SERIES R32  25/35 25/35 SEER A+++ SCOP A+++ MXZ connection | Cassette Units MLZ SERIES R32  MXZ connection |

SEER A SCOP A Energy Rank



R32 R32 Refrigerant

*1 R410A is for MXZ and PUMY connection.

MXZ connection Compatible for connection to MXZ Series system

R410A R410A Refrigerant

*2 R410A is for PUMY connection.

| 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  | Hyper Heating MUZ-LN25/35/50VGHZ MUZ-FH25/35/50VEHZ MUZF-KW25/35/50/60VGHZ  | 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) 2) 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. |



MUZ-LN25/35VG



MUZ-LN50VG

MSZ-L SERIES

R32
Single / MXZ, PUMY
R410A
PUMY

MSZ-LN18/25/35/50/60VG2



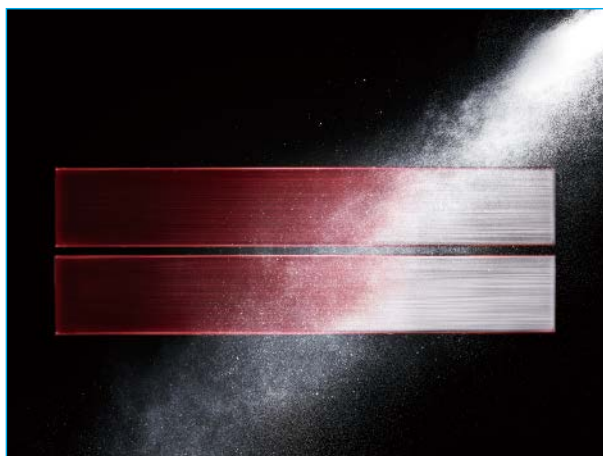
**GOOD DESIGN AWARD 2016
BEST 100**



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

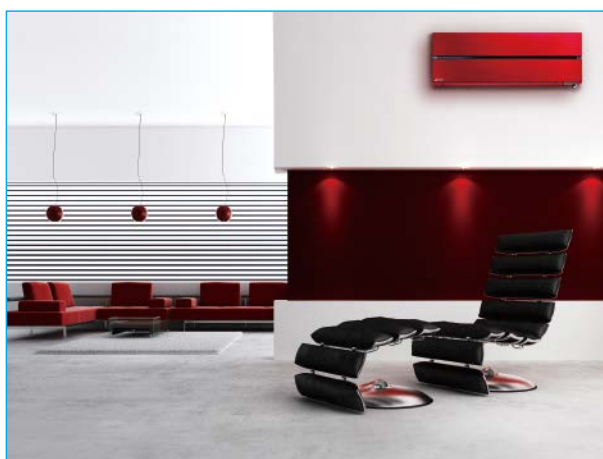
Natural White, Pearl White, Ruby Red, and Onyx Black. LN Series indoor units are available in four colours to match various lifestyles. The appearance of the indoor unit differs depending on the lighting in the room, attracting the attention of everyone that enters the room.



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 thanks to LED backlight.



Pearl White



Ruby Red



Onyx Black

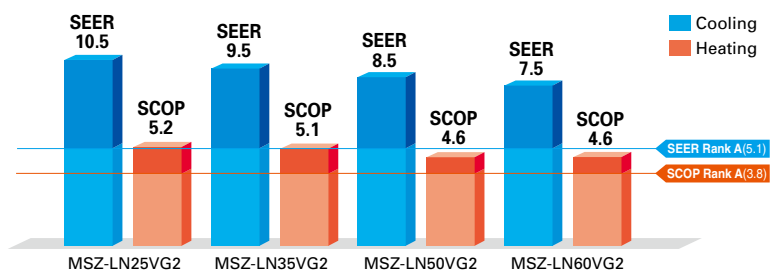


Natural White

High Energy Efficiency

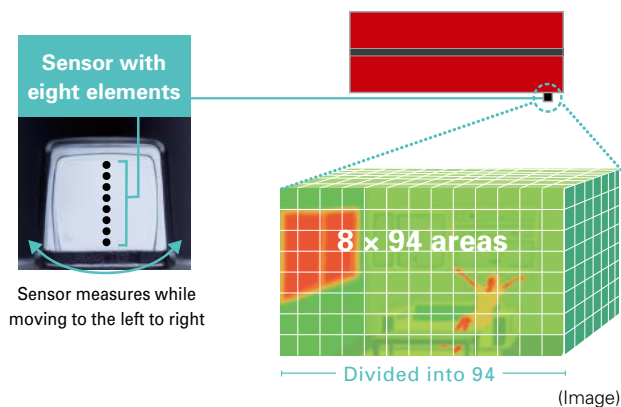


Optimum cooling/heating performance is another feature for the LN series. Models from capacities 25 to 50 have achieved the "Rank A+++" for SEER, and models for capacities 25 and 35 have achieved the "Rank A+++" for SCOP as well.



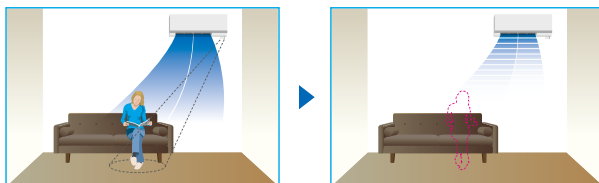
3D i-see Sensor

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.



No occupancy energy-saving mode

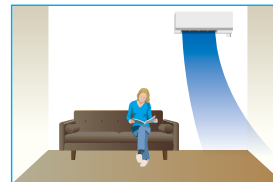
The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.



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.

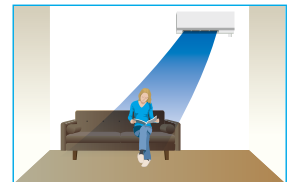
Indirect Airflow

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 to avert airflow and prevent body temperature from becoming excessively cooled.



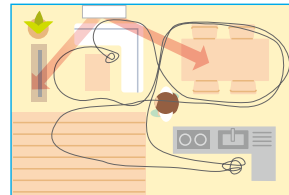
Direct Airflow

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



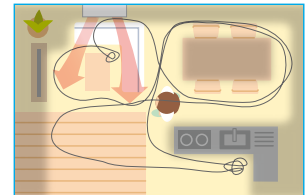
Even Airflow *LN Series only

Normal swing mode



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

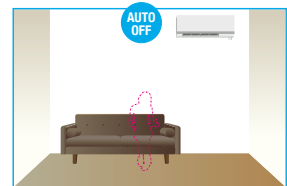
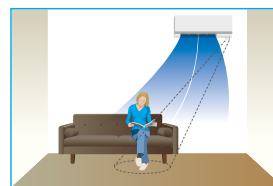
Even airflow mode



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

No occupancy 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.

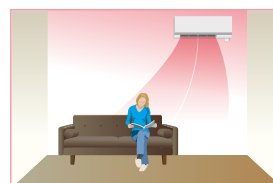


Circulator Operation

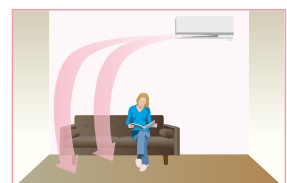
(MSZ-LN18/25/35/50/60VG-SC Scandinavian model)

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.

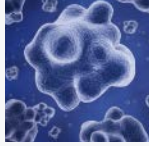


This operating can help to circulate and rene warm air.

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.

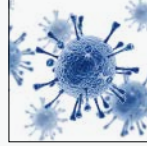
Bacteria



Test results have confirmed that Plasma Quad Plus neutralizes 99% of bacteria in 162 minutes in a 25m³ test space.

<Test No.> KRCS-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 25m³ test space.

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

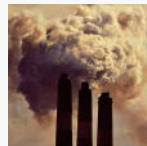
Allergens



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 28m³ 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 | A | A | B | B | C | |
| LN Series | Plasma Quad Plus | Two-Stage Plasma | A | A | A | A | A | A |

A: Highly effective
B: Effective
C: Partially effective

*PM2.5:
Particles smaller than 2.5µm

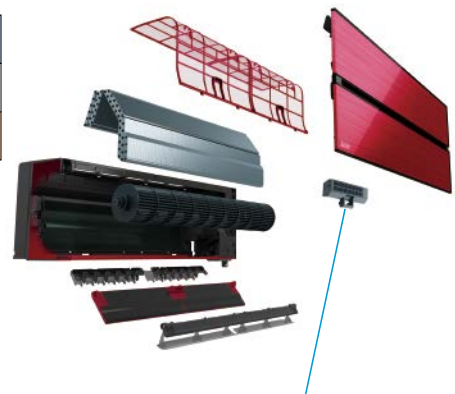
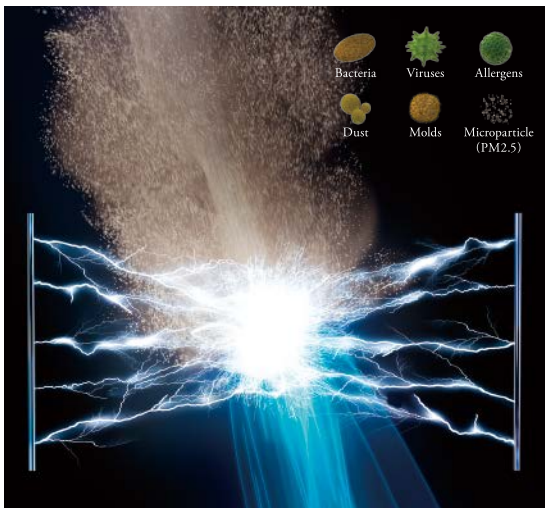
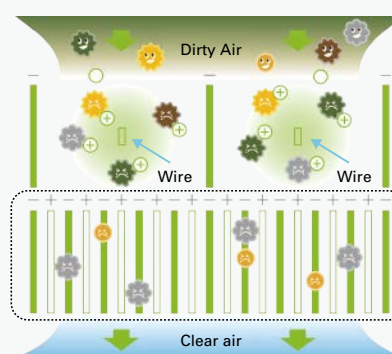


Image of Plasma Quad Plus



Principle of Plasma Quad Plus



Dust, PM2.5
 Viruses
 Bacteria
 Mold
 Allergens

1st stage

- Make plasma.
- Break mold and allergens. Inhibit viruses.
- Dust and PM2.5 given an electrical charge (+).

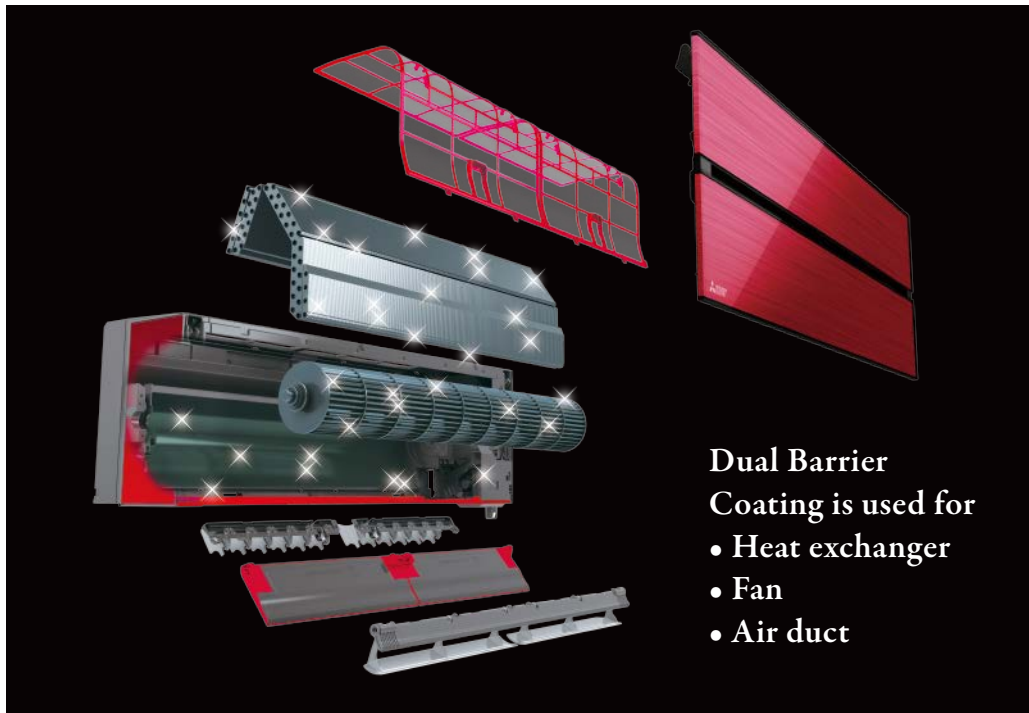
2nd stage

- Make a strong electrical field.
- The charged dust and PM2.5 (+) are absorbed in the strong electrical field (-).



Dual Barrier Coating

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



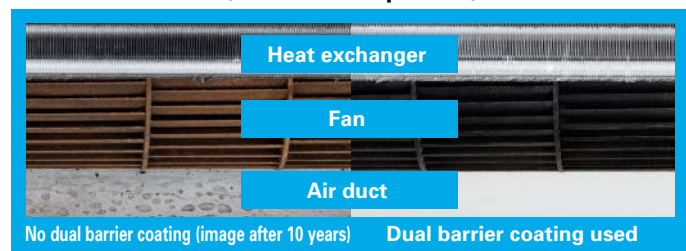
SIAA *1
Anti Fungus
JP0512075X0001C
(Fan, Air duct)

State-of-the-art coating technology

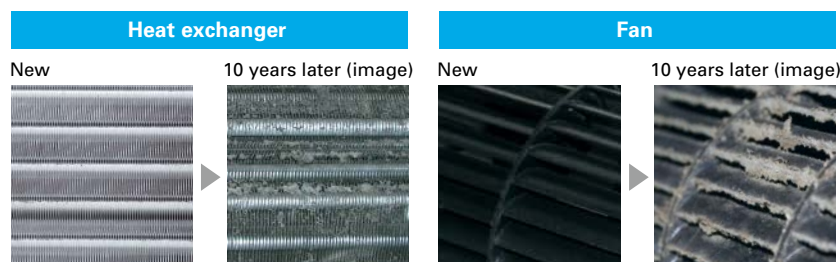
Dirt is generally classified into two groups: hydrophilic dirt such as fiber dust and sand dust, and hydrophobic dirt such as oil and cigarette smoke. Mitsubishi Electric's dual barrier coating works as a two-barrier coating with blended "fluorine particles" that prevent hydrophilic dirt penetration and "hydrophobic 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)



The inside of the indoor unit gets dirty after many years of usage.



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

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

*1 Verified by SIAA test method (JIS Z 2911) with No. JP0501014A0002O on SIAA antifungal agent positive list. Antifungal effect depends on the working environment. Fungicides comply with the SIAA safety criteria.
What is SIAA? https://www.kohkin.net/en_index/en_siaa.html

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.

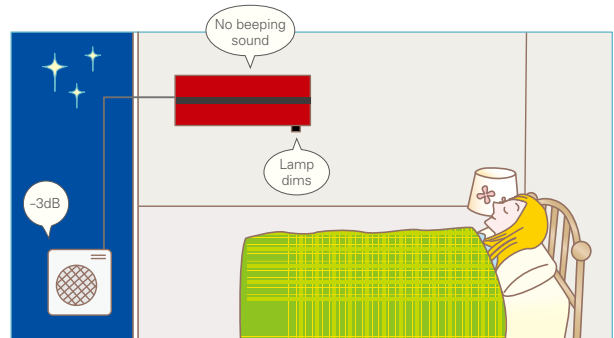


Night Mode

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.

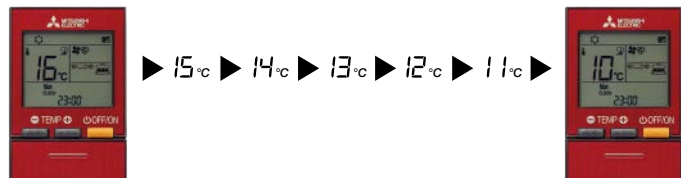
*The cooling/heating capacity may drop.



10°C Heating

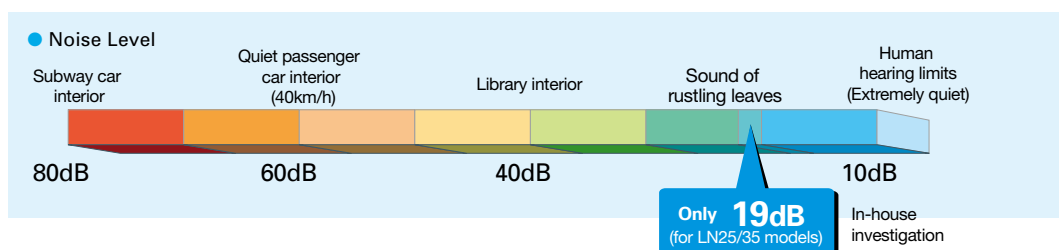
During heating operation, the temperature can be set in 1°C increments down to 10°C.

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



Quiet Operation

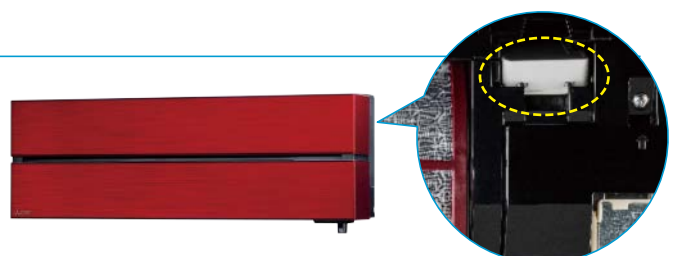
The indoor unit noise level is as low as 19dB for LN25/35 models, offering a peaceful inside environment.



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.



MSZ-L SERIES



Indoor Unit / Remote Controller

R32

PUMY

R410A



GOOD DESIGN AWARD 2016
BEST 100

<Pearl White>



MSZ-LN18/25/35/50/60VG2V

<Ruby Red>



MSZ-LN18/25/35/50/60VG2R

<Natural White>



MSZ-LN18/25/35/50/60VG2W

<Onyx Black>



MSZ-LN18/25/35/50/60VG2B

Outdoor Unit

R32



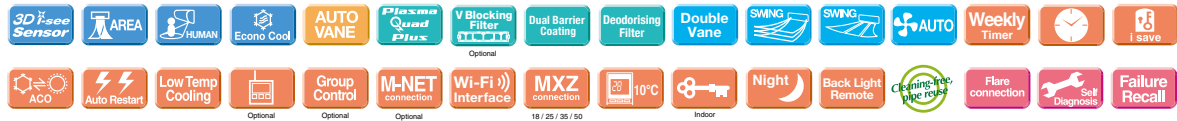
MUZ-LN25/35VG2



MUZ-LN50VG2



MUZ-LN60VG



| Type | Inverter Heat Pump | | | | |
|---|---|-------------|-------------------------------|-------------------------------|-------------------------------|
| Indoor Unit | MSZ-LN18VG2 | MSZ-LN25VG2 | MSZ-LN35VG2 | MSZ-LN50VG2 | MSZ-LN60VG2 |
| Outdoor Unit | for MXZ connection | MUZ-LN25VG2 | MUZ-LN35VG2 | MUZ-LN50VG2 | MUZ-LN60VG |
| Refrigerant | Single: R32 ⁽¹⁾ / Multi: R410A or R32 ⁽¹⁾ | | | | |
| Power Supply | Outdoor Power Supply | | | | |
| | 230 / Single / 50 | | | | |
| Cooling | Source | | | | |
| | Outdoor (V / Phase / Hz) | | | | |
| | Design load | kW | 2.5 | 3.5 | 5.0 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 83 | 129 | 205 |
| | SEER ⁽⁴⁾ | | 10.5 | 9.5 | 8.5 |
| Heating | Energy efficiency class | | A+++ | A+++ | A+++ |
| | Capacity | kW | 2.5 | 3.5 | 5.0 |
| | Min-Max | kW | 1.0 - 3.5 | 0.8 - 4.0 | 1.0 - 6.0 |
| | Total Input | kW | 0.485 | 0.820 | 1.380 |
| | Rated | kW | 0.485 | 0.820 | 1.380 |
| Heating (Average Season) ⁽³⁾ | Design load | kW | 3.0 (-10°C) | 3.6 (-10°C) | 4.5 (-10°C) |
| | Declared Capacity | 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) |
| | at bivalent temperature | kW | 3.0 (-10°C) | 3.6 (-10°C) | 4.5 (-10°C) |
| | at operation limit temperature | kW | 2.5 (-15°C) | 3.2 (-15°C) | 4.2 (-15°C) |
| | Back up heating capacity | kW | 0.0 (-10°C) | 0.0 (-10°C) | 0.0 (-10°C) |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 807 | 987 | 1369 |
| | SCOP ⁽⁴⁾ | | 5.2 | 5.1 | 4.6 |
| | Energy efficiency class | | A+++ | A+++ | A+++ |
| | Capacity | kW | 3.2 | 4.0 | 6.0 |
| Operating Current (Max) | Min-Max | kW | 0.7 - 5.4 | 0.9 - 6.3 | 1.0 - 8.2 |
| | Total Input | kW | 0.600 | 0.820 | 1.480 |
| | Rated | kW | 0.600 | 0.820 | 1.480 |
| | Input | kW | 0.027 | 0.027 | 0.034 |
| | Operating Current(Max) | A | 0.3 | 0.3 | 0.4 |
| Indoor Unit | Dimensions | H*W*D | 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) | 15 (W) 16 (V, R, B) |
| | Air Volume (SLo-Lo-Mid-Hi-SHi) ⁽⁵⁾ | m³/min | 4.7 - 5.9 - 7.1 - 9.2 - 12.4 | 4.7 - 5.9 - 7.1 - 9.2 - 12.4 | 5.7 - 7.6 - 8.8 - 10.6 - 13.9 |
| | Cooling | m³/min | 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 |
| | Heating | m³/min | 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 |
| | Sound Level (SPL) | dB(A) | 19 - 23 - 29 - 36 - 42 | 19 - 23 - 29 - 36 - 42 | 27 - 31 - 35 - 39 - 46 |
| | Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi) ⁽⁵⁾ | dB(A) | 19 - 24 - 29 - 38 - 45 | 19 - 24 - 29 - 38 - 45 | 25 - 29 - 34 - 39 - 47 |
| | Heating | dB(A) | 19 - 24 - 29 - 38 - 45 | 19 - 24 - 29 - 38 - 45 | 25 - 29 - 34 - 39 - 47 |
| | Cooling | dB(A) | 58 | 58 | 60 |
| | Heating | dB(A) | 58 | 58 | 60 |
| Outdoor Unit | Dimensions | H*W*D | 550-800-285 | 550-800-285 | 714-800-285 |
| | Weight | kg | 33 | 34 | 40 |
| | Air Volume | m³/min | 34.3 | 34.3 | 40.0 |
| | Cooling | m³/min | 32.7 | 32.7 | 40.5 |
| | Heating | m³/min | 32.7 | 32.7 | 40.5 |
| | Sound Level (SPL) | dB(A) | 46 | 49 | 51 |
| | Sound Level (SPL) | dB(A) | 46 | 49 | 51 |
| | Heating | dB(A) | 49 | 50 | 54 |
| | Cooling | dB(A) | 60 | 61 | 64 |
| | Operating Current (Max) | A | 6.8 | 9.6 | 13.5 |
| Ext. Piping | Breaker Size | A | 10 | 10 | 16 |
| | Diameter | Liquid/Gas | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 |
| | Max.Length | Out-In | 20 | 20 | 30 |
| | Max.Height | Out-In | 12 | 12 | 15 |
| | Guaranteed Operating Range (Outdoor) | °C | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 |

(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 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) 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 53-55 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-AP15/20VG



MSZ-AP25/35/42/50VG



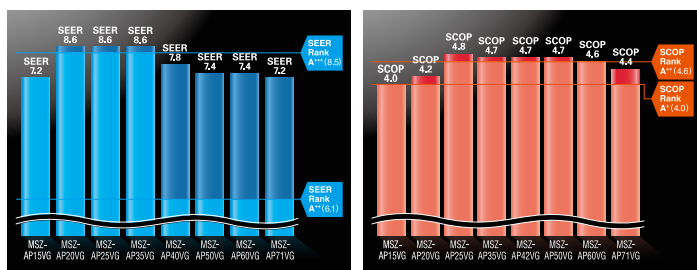
MSZ-AP60/71VG



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.

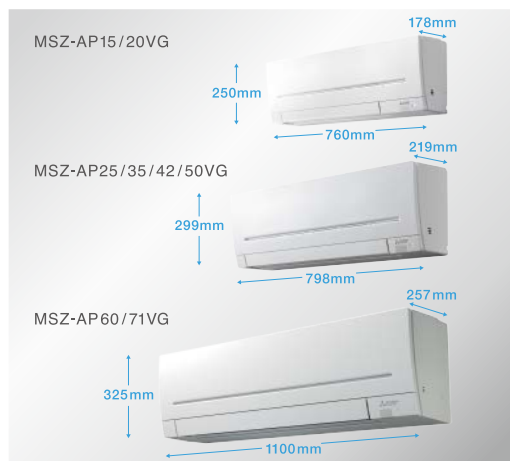
Living



Study



Bedroom



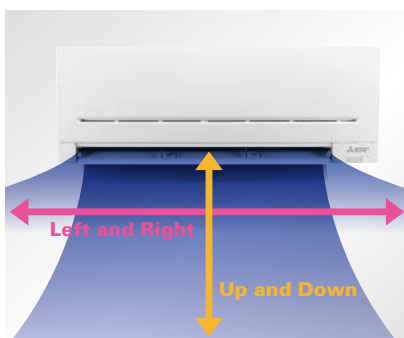
Evolved comfortable convenience function

Horizontal Airflow



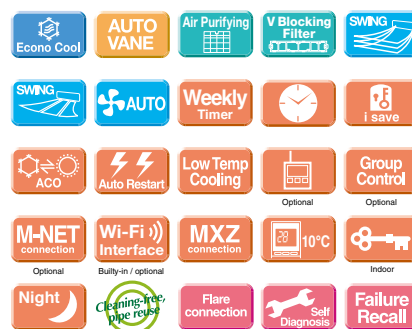
The new airflow control which spreads across the ceiling eliminates the uncomfortable drafty feeling.

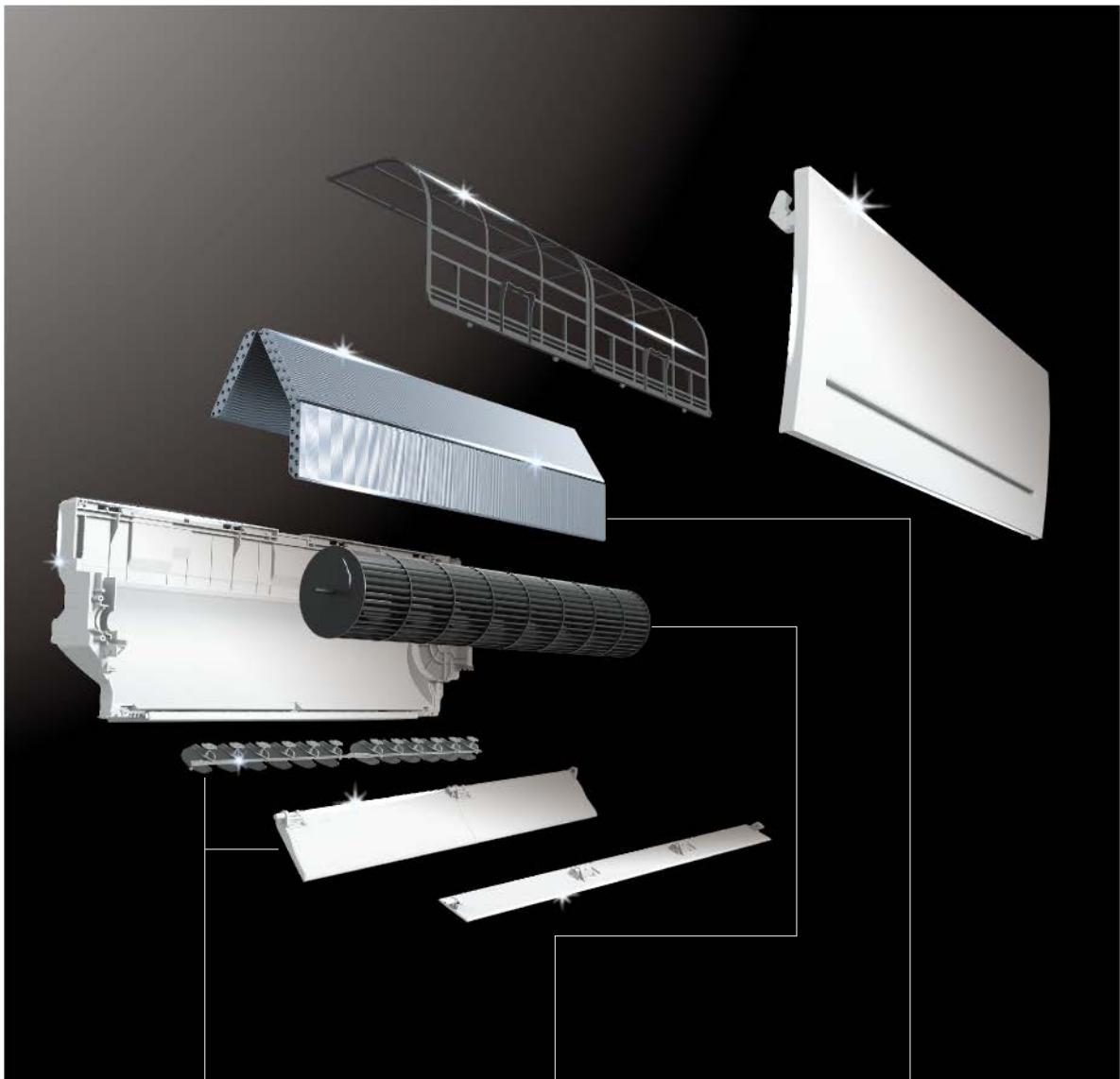
Auto Vane Control



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

The Function





Comfort

Vertical and Horizontal Vane

New vertical and horizontal vanes are double the size of the previous model, improving airflow control elaborately.

175% larger

204% larger

High Performance

Line Flow Fan

New line flow Fan is 122% larger and 108% wider than the previous model, leading to higher aerodynamic performance. Also, same sound level as the previous model.

122% larger

108% larger

High Performance

Heat Exchanger

New ø5 Heat exchanger enables to realise 32% thinner depth than the previous model. It realises low pressure loss leading to high performance.

32% Thinner

“Weekly Timer”

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. |
|-------------------------|--|---------|---------|---------|---------|--|---------|
| 6:00 | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C |
| 8:00 | Automatically changes to high-power operation at wake-up time | | | | | | |
| 10:00 | OFF | OFF | OFF | OFF | OFF | ON 18°C | ON 18°C |
| 12:00 | Automatically turned off during work hours | | | | | Midday is warmer, so the temperature is set lower | |
| 14:00 | | | | | | | |
| 16:00 | | | | | | | |
| 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 turns on, synchronized with arrival at home | | | | | Automatically raises temperature setting to match time when outside-air temperature is low | |
| 22:00 | | | | | | | |
| (during sleeping hours) | 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 | | | | | | |

Settings

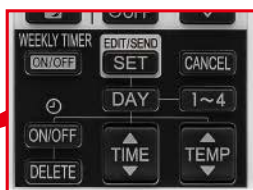
Pattern Settings: Input up to four settings for each day

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

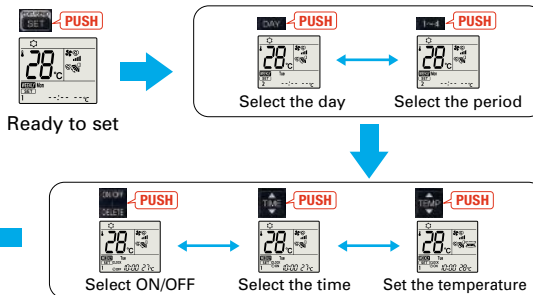
■ Easy set-up using dedicated buttons



The remote controller is equipped with buttons that are used exclusively for setting the Weekly Timer. Setting operation patterns is easy and quick.



How to set the Weekly Timer



- 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. (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.

without
“Low standby power”

with
“Low standby power”

around 10W

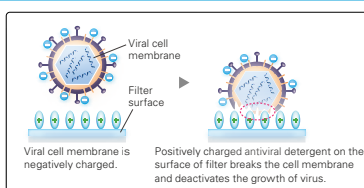
below 1W

around 90%
reduction

V Blocking
Filter

V Blocking Filter

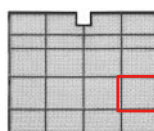
V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



Air Purifying
Filter

Air Purifying Filter

This filter generates stable antibacterial and deodorising 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.



* It is okay to wash the filter with water (air-cleaning effect is maintained)

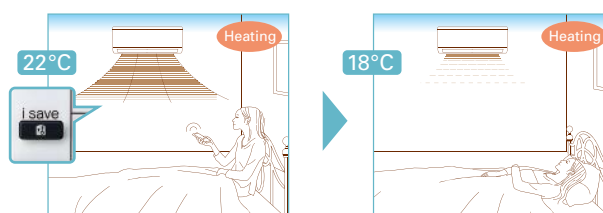


3D surface (Waved surface)

"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.

Standard Units

Heater Installed



Night Mode

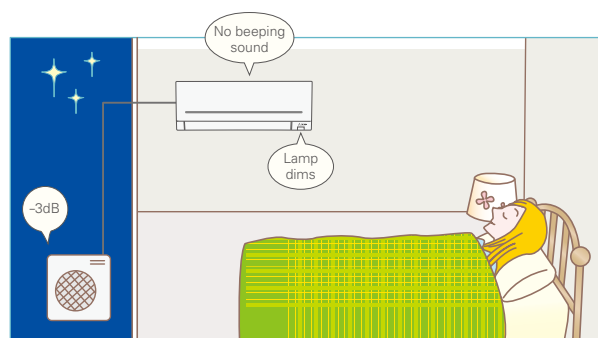
(MSZ-AP20/25/35/42/50/60/71)



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

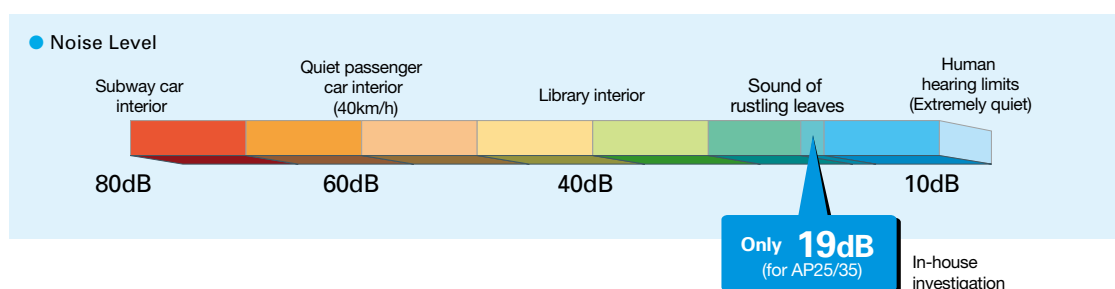
- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will drop to 3dB lower than the rated operating noise specification.

*The cooling/heating capacity may drop.



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



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.

MSZ-A SERIES

Indoor Unit

R32 R410A



MSZ-AP15/20VG(K)



reddot award 2018 winner

Outdoor Unit

R32



MUZ-AP15VG



MUZ-AP20VG

Remote Controller



| Type | | Inverter Heat Pump | | | | | |
|---|---|---|---------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|
| Indoor Unit | | MSZ-AP15VG(K) | MSZ-AP20VG(K) | MSZ-AP25VG(K) | MSZ-AP25VG(K) | MSZ-AP35VG(K) | MSZ-AP35VG(K) |
| Outdoor Unit | | MUZ-AP15VG | MUZ-AP20VG | MUZ-AP25VG | MUZ-AP25VG | MUZ-AP35VG | MUZ-AP35VG |
| Refrigerant | | Single: R32 ⁽¹⁾ / Multi: R410A or R32 ⁽²⁾ | | | | | |
| Power Supply | | Outdoor Power supply | | | | | |
| Outdoor (V / Phase / Hz) | | 230 / Single / 50 | | | | | |
| Cooling | Design load | kW | 1.5 | 2.0 | 2.5 | 2.5 | 3.5 |
| | Annual electricity consumption ⁽³⁾ | kWh/a | 72 | 81 | 101 | 101 | 142 |
| | SEER ⁽⁴⁾ | | 7.2 | 8.6 | 8.6 | 8.6 | 8.6 |
| | Energy efficiency class | | A++ | A+++ | A+++ | A+++ | A+++ |
| | Capacity | | | | | | |
| Heating (Average Season) ⁽⁵⁾ | Rated | kW | 1.5 | 2.0 | 2.5 | 2.5 | 3.5 |
| | Min-Max | kW | 0.5-2.2 | 0.6-2.7 | 0.9-3.4 | 0.9-3.4 | 1.1-3.8 |
| | Total Input | Rated | kW | 0.370 | 0.460 | 0.600 | 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) |
| | Declared Capacity | at reference design temperature | kW | 1.6 (-10°C) | 2.3 (-10°C) | 2.4 (-10°C) | 2.9 (-10°C) |
| | | at bivalent temperature | kW | 1.6 (-10°C) | 2.3 (-10°C) | 2.4 (-10°C) | 2.9 (-10°C) |
| | | at operation limit temperature | kW | 1.6 (-15°C) | 2.2 (-15°C) | 2.4 (-15°C) | 2.6 (-15°C) |
| | 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 ⁽³⁾ | kWh/a | 559 | 766 | 698 | 703 | 873 |
| | SCOP ⁽⁴⁾ | | 4.0 | 4.2 | 4.8 | 4.7 | 4.6 |
| Indoor Unit | Energy efficiency class | | A+ | A+ | A++ | A++ | A++ |
| | Rated | kW | 2.0 | 2.5 | 3.2 | 3.2 | 4.0 |
| | Capacity | | | | | | |
| | Min-Max | kW | 0.5-3.1 | 0.5-3.5 | 1.0-4.1 | 1.0-4.1 | 1.3-4.6 |
| | Total Input | Rated | kW | 0.500 | 0.600 | 0.780 | 1.030 |
| | Operating Current (Max) | A | 5.5 | 7.0 | 7.1 | 8.5 | 8.5 |
| | Input | Rated | kW | 0.017 | 0.019 | 0.026 | 0.026 |
| | Operating Current (Max) | A | 0.17 | 0.2 | 0.3 | 0.3 | 0.3 |
| | Dimensions | H*W*D | mm | 250-760-178 | 250-760-178 | 299-798-219 | 299-798-219 |
| | Weight | kg | 8.2 | 8.2 | 10.5 | 10.5 | 10.5 |
| Outdoor Unit | Air Volume | Cooling | m ³ /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 |
| | (SLo-Lo-Mid-Hi-SH) ⁽³⁾ | Heating | m ³ /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 |
| | 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 |
| | (SLo-Lo-Mid-Hi-SH) ⁽³⁾ | Heating | dB(A) | 21 - 26 - 30 - 35 - 40 | 21 - 26 - 30 - 35 - 42 | 19 - 24 - 34 - 39 - 45 | 19 - 24 - 31 - 38 - 45 |
| | Sound Level (PWL) | Cooling | dB(A) | 59 | 60 | 57 | 57 |
| | Dimensions | H*W*D | mm | 538-699-249 | 550-800-285 | 550-800-285 | 550-800-285 |
| | Weight | kg | 23 | 31 | 31 | 31 | 31 |
| | Air Volume | Cooling | m ³ /min | 26 | 32.2 | 32.2 | 32.2 |
| | Heating | m ³ /min | 21 | 29.8 | 29.8 | 29.8 | 33.8 |
| | Sound Level (SPL) | Cooling | dB(A) | 50 | 47 | 47 | 49 |
| Ext. Piping | Heating | dB(A) | 50 | 48 | 48 | 50 | 50 |
| | Sound Level (PWL) | Cooling | dB(A) | 63 | 59 | 59 | 61 |
| | Operating Current (Max) | A | 5.3 | 6.8 | 6.8 | 8.2 | 8.2 |
| | Breaker Size | A | 10 | 10 | 10 | 10 | 10 |
| | Diameter | Liquid/Gas | mm | 6.35 / 9.52 | 6.35 / 9.52 | 6.35 / 9.52 | 6.35 / 9.52 |
| | Max.Length | Out-In | m | 20 | 20 | 20 | 20 |
| | Max.Height | Out-In | m | 12 | 12 | 12 | 12 |
| | Guaranteed Operating Range (Outdoor) | Cooling | °C | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 |
| | | Heating | °C | -15 ~ +24 | -15 ~ +24 | -20 ~ +24 | -20 ~ +24 |

(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 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) 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 53-55 for heating (warmer season) specifications.

MSZ-A SERIES



Indoor Unit

R32 R410A

※VGK model Wi-Fi Interface built-in.



MSZ-AP25/35/42/50VG(K)



MSZ-AP60/71VG(K)

Outdoor Unit

R32



MUZ-AP25/35/42VG(H)



MUZ-AP50VG(H)/60VG



MUZ-AP71VG

Remote Controller



| Type | | | Inverter Heat Pump | | | | | | |
|--|---|---------------------------------|---|------------------------------|------------------------------|-------------------------------|--|----------------------------------|----------------------------------|
| Indoor Unit | | | 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 | |
| Refrigerant | | | Single: R32 ⁽¹⁾ / Multi: R410A or R32 ⁽¹⁾ | | | | Single: R32 ⁽¹⁾ / Multi: R32 ⁽¹⁾ | | |
| Power Source | | | Outdoor Power supply | | | | | | |
| Supply | Outdoor (V / Phase / Hz) | | 230 / Single / 50 | | | | | | |
| Cooling | 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 | |
| | 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 | |
| Heating (Average Season) ⁽³⁾ | 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) | |
| | Declared Capacity | 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) |
| | | 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) |
| | | 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) |
| | 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) | |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 1120 | 1134 | 1250 | 1275 | 1398 | 2132 | |
| | SCOP ⁽⁴⁾ | | 4.7 | 4.6 | 4.7 | 4.6 | 4.6 | 4.4 | |
| | Capacity | Energy efficiency class | | A++ | A++ | A++ | A++ | A++ | A+ |
| | | Rated | kW | 5.4 | 5.4 | 5.8 | 5.8 | 6.8 | 8.1 |
| | Total Input | 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 |
| | Rated | kW | 1.490 | 1.490 | 1.600 | 1.600 | 1.670 | 2.120 | |
| Operating Current (Max) | | A | 9.9 | 9.9 | 13.6 | 13.6 | 14.1 | 16.4 | |
| Indoor Unit | Input | Rated | kW | 0.032 | 0.032 | 0.032 | 0.032 | 0.049 | 0.045 |
| | Operating Current (Max) | | A | 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 | |
| | Air Volume (SLo-Lo-Mid-Hi-SH) ⁽³⁾ | 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 - 18.6 |
| | | 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 - 19.2 |
| | Sound Level (SPL) (SLo-Lo-Mid-Hi-SH) ⁽³⁾ | 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 |
| | | 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 |
| Outdoor Unit | 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 |
| | | Heating | m³/min | 32.7 | 32.7 | 40.5 | 40.5 | 52.1 | 47.9 |
| | Sound Level (SPL) | Cooling | dB(A) | 50 | 50 | 52 | 52 | 56 | 56 |
| | | Heating | dB(A) | 51 | 51 | 52 | 52 | 57 | 55 |
| | Sound Level (PWL) | Cooling | dB(A) | 61 | 61 | 64 | 64 | 69 | 69 |
| | Operating Current (Max) | A | 9.6 | 9.6 | 13.3 | 13.3 | 13.6 | 16.0 | |
| | Breaker Size | A | 10 | 10 | 16 | 16 | 16 | 20 | |
| Ext. Piping | 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 |
| | Max.Length | Out-In | m | 20 | 20 | 20 | 20 | 30 | 30 |
| | Max.Height | Out-In | m | 12 | 12 | 12 | 12 | 15 | 15 |
| Guaranteed Operating Range (Outdoor) | Cooling | °C | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | |
| | Heating | °C | -15 ~ +24 | -20 ~ +24 | -15 ~ +24 | -20 ~ +24 | -15 ~ +24 | -15 ~ +24 | |

(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 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) 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 53-55 for heating (warmer season) specifications.

MSZ-E SERIES

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



MSZ-EF18-50VGB



Stylish Line-up Matches Any Room Décor

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 best-match scenario for diverse interior designs while simultaneously ensuring maximum room and energy savings.



Energy-efficient Operation



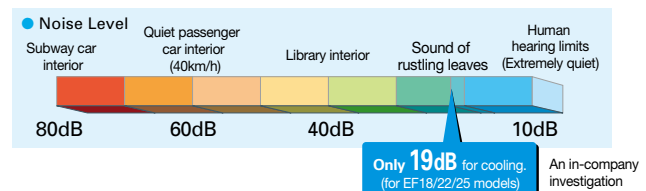
All models in the series have achieved high energy-savings rating, and are contributing to reduced energy consumption in homes, offices and a range of other settings. Offered in a variety of output capacities and installation patterns, the vast applicability promises an ideal match for any user.

| Indoor \ Outdoor | Rank A for single connection MUZ-EF25/35VG(H) MUZ-EF42/50VG | Compatibility MXZ | | | | | |
|------------------|---|----------------------|--------|--------|--------|--------|--------|
| | | 2F33VF | 2F42VF | 2F53VF | 3F54VF | 3F68VF | 4F72VF |
| MSZ-EF18VG | — | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MSZ-EF22VG | — | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MSZ-EF25VG | A+++ / A++(A+++) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MSZ-EF35VG | A+++ / A++(A+*) | | ✓ | ✓ | ✓ | ✓ | ✓ |
| MSZ-EF42VG | A++ / A+ | | | ✓ | ✓ | ✓ | ✓ |
| MSZ-EF50VG | A++ / A+ | | | ✓ | ✓ | ✓ | ✓ |

*VEH

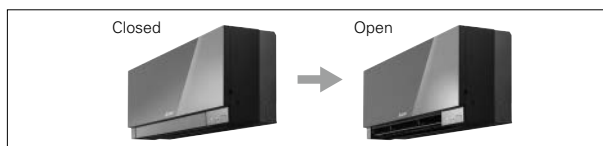
Quiet Comfort All Day Long

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.

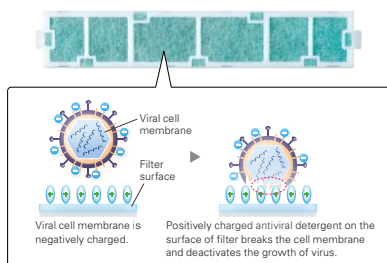


V Blocking Filter



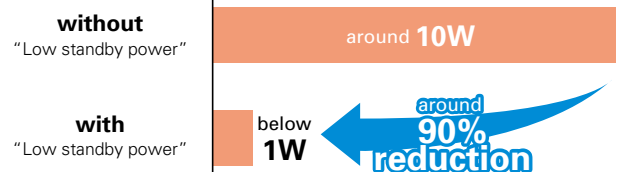
V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen.

Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



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.

Standard Units

Heater Installed



MUZ-EF25/35VG



MUZ-EF25/35VGH

MSZ-E SERIES



Indoor Unit / Remote Controller

R32 R410A



White

MSZ-EF18/22/25/35/42/50VG(K)W



Silver

MSZ-EF18/22/25/35/42/50VG(K)S



Black

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

- * Soft-dry Cloth is enclosed with Black models.
- * VGK model Wi-Fi interface built-in

GOOD DESIGN
AWARD 2015



reddot award 2015
winner

Outdoor Unit

R32



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



MUZ-EF50VG



| Type | | Inverter Heat Pump | | | | | | | |
|--------------------------|---|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Indoor Unit | | MSZ-EF18VG(K) | MSZ-EF22VG(K) | MSZ-EF25VG(K) | MSZ-EF25VG(K) | MSZ-EF35VG(K) | MSZ-EF35VG(K) | MSZ-EF42VG(K) | MSZ-EF50VG(K) |
| Outdoor Unit | | for MXZ connection | | MUZ-EF25VG | MUZ-EF25VG(H) | MUZ-EF35VG | MUZ-EF35VG(H) | MUZ-EF42VG | MUZ-EF50VG |
| Refrigerant | | R32 ⁽¹⁾ | | | | | | | |
| Power Supply | | Outdoor Power supply | | | | | | | |
| Source | | 230/Single/50 | | | | | | | |
| Outdoor (V / Phase / Hz) | | | | | | | | | |
| Cooling | Design load | kW | - | - | 2.5 | 2.5 | 3.5 | 3.5 | 5.0 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | - | - | 96 | 96 | 139 | 139 | 233 |
| | SEER ⁽⁴⁾ | - | - | - | 9.1 | 9.1 | 8.8 | 8.8 | 7.5 |
| | Energy efficiency class | - | - | - | A+++ | A+++ | A+++ | A+++ | A++ |
| | Capacity | kW | - | - | 2.5 | 2.5 | 3.5 | 3.5 | 5.0 |
| Heating | Min-Max | kW | - | - | 0.9-3.4 | 0.9-3.4 | 1.1-4.0 | 1.1-4.0 | 1.4-5.4 |
| | Total Input | Rated | kW | - | 0.540 | 0.540 | 0.910 | 0.910 | 1.540 |
| | Design load | kW | - | - | 2.4 (-10°C) | 2.4 (-10°C) | 2.9 (-10°C) | 2.9 (-10°C) | 4.2 (-10°C) |
| | Declared Capacity | at reference design temperature | kW | - | 2.4 (-10°C) | 2.4 (-10°C) | 2.9 (-10°C) | 2.9 (-10°C) | 4.2 (-10°C) |
| | at operation limit temperature | kW | - | - | 2.4 (-10°C) | 2.4 (-10°C) | 2.9 (-10°C) | 2.9 (-10°C) | 4.2 (-10°C) |
| Back up heating capacity | at operation limit temperature | kW | - | - | 2.0 (-15°C) | 1.6 (-20°C) | 2.4 (-15°C) | 1.7 (-20°C) | 3.5 (-15°C) |
| | Annual electricity consumption ⁽²⁾ | kWh/a | - | - | 713 | 727 | 882 | 900 | 1304 |
| | SEER ⁽⁴⁾ | - | - | - | 4.7 | 4.6 | 4.6 | 4.5 | 4.5 |
| | Energy efficiency class | - | - | - | A++ | A++ | A++ | A++ | A+ |
| | Capacity | kW | - | - | 3.2 | 3.2 | 4.0 | 4.0 | 5.8 |
| Operating Current (Max) | Min-Max | kW | - | - | 1.0-4.2 | 1.0-4.2 | 1.3-5.1 | 1.3-5.1 | 1.4-7.5 |
| | Total Input | Rated | kW | - | 0.700 | 0.700 | 0.950 | 0.950 | 1.560 |
| | Input | Rated | kW | - | 0.026 | 0.026 | 0.030 | 0.030 | 0.043 |
| | Operating Current (Max) | A | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 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 |
| Indoor Unit | Weight | kg | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 |
| | Air Volume (SLo-Lo-Mid-Hi-SH ⁽³⁾) | m ³ /min | 40-46-63-83-105 | 40-46-63-83-105 | 40-46-63-83-105 | 40-46-63-83-105 | 40-46-63-83-105 | 58-66-77-89-112 | 58-66-77-89-112 |
| | Sound Level (SPL) | dB(A) | 19-23-29-36-42 | 19-23-29-36-42 | 19-23-29-36-42 | 19-23-29-36-42 | 21-24-30-36-42 | 21-24-30-36-42 | 30-33-36-40-43 |
| | Sound Level (PWL) | dB(A) | 21-24-29-37-45 | 21-24-29-37-45 | 21-24-29-37-45 | 21-24-29-37-45 | 21-24-30-38-46 | 28-30-35-41-48 | 30-33-37-43-49 |
| | Dimensions | H*W*D | mm | - | 550-800-285 | 550-800-285 | 550-800-285 | 550-800-285 | 714-900-285 |
| Outdoor Unit | Weight | kg | - | - | 31 | 31 | 34 | 35 | 40 |
| | Air Volume | m ³ /min | - | - | 27.8 | 27.8 | 34.3 | 32.0 | 40.2 |
| | Sound Level (SPL) | dB(A) | - | - | 29.8 | 29.8 | 32.7 | 32.7 | 40.2 |
| | Sound Level (PWL) | dB(A) | - | - | 47 | 47 | 49 | 50 | 52 |
| | Operating Current (Max) | A | - | - | 6.8 | 6.8 | 6.8 | 9.6 | 13.6 |
| Ext. Piping | Breaker Size | A | - | - | 10 | 10 | 10 | 12 | 16 |
| | Diameter | mm | - | - | 6.35 / 9.52 | 6.35 / 9.52 | 6.35 / 9.52 | 6.35 / 9.52 | 6.35 / 9.52 |
| | Max.Length | m | - | - | 20 | 20 | 20 | 20 | 30 |
| | Max.Height | m | - | - | 12 | 12 | 12 | 12 | 15 |
| | Guaranteed Operating Range (Outdoor) | °C | - | - | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 |

(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 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) 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 53-55 for heating (warmer season) specifications.

MSZ-BT20/25/35/50VG(K)



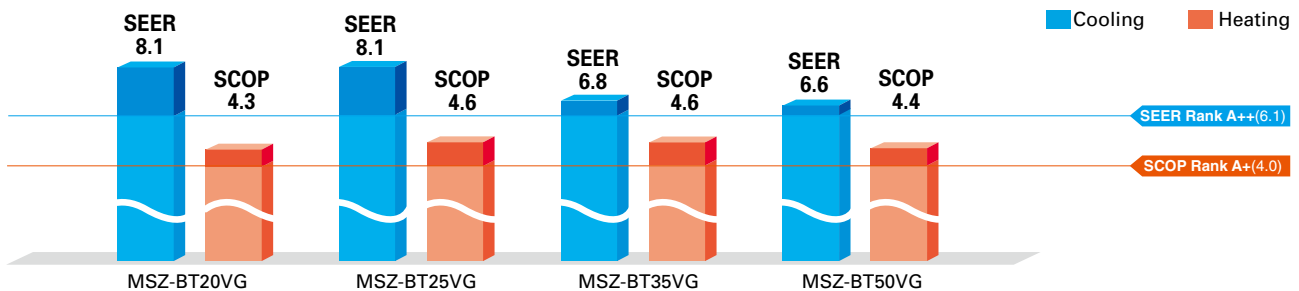
MSZ-BT SERIES

The BT series featured with its high performance, energy efficiency, and simplicity of use brings greater comfort to your room.

High Energy Efficiency for Entire Range of Series

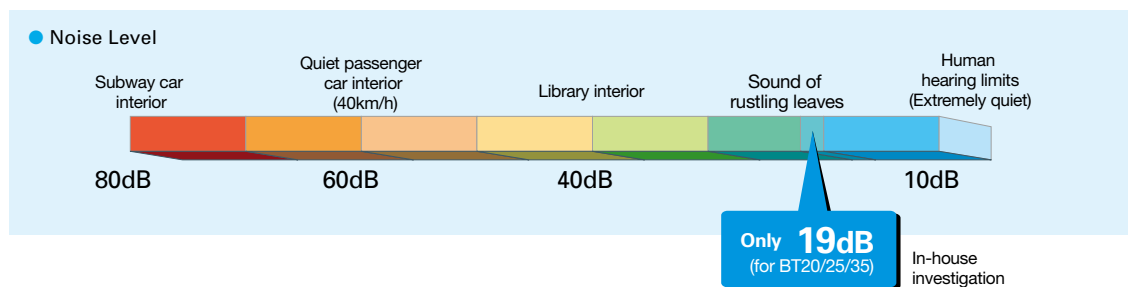


All models in the series, from the low-capacity 20 to the high-capacity 50, have achieved the "Rank A++" for SEER and size 25 and 35 have achieved the "Rank A++" for SCOP as energy-savings rating. For home use, such as in bedrooms and living rooms, to light commercial use, such as in offices, our air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

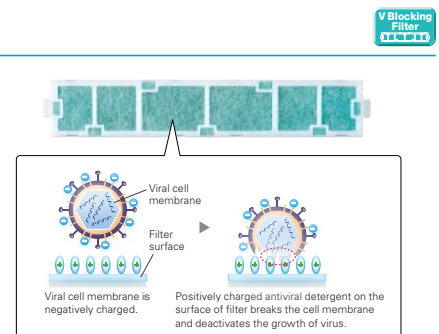
(MSZ-BT20/25/35/50VG(K))



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.

V Blocking Filter

V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



MSZ-BT SERIES



Indoor Unit

R32



MSZ-BT20/25/35/50VG(K)

Outdoor Unit



MUZ-BT20VG



MUZ-BT25/35VG



MUZ-BT50VG

Remote Controller



| Type | Inverter Heat Pump | | | |
|--|---|---------------|------------------------------|------------------------------|
| Indoor Unit | MSZ-BT20VG(K) | MSZ-BT25VG(K) | MSZ-BT35VG(K) | MSZ-BT50VG(K) |
| Outdoor Unit | MUZ-BT20VG | MUZ-BT25VG | MUZ-BT35VG | MUZ-BT50VG |
| Refrigerant | R32 ⁽¹⁾ | | | |
| Power Supply | Outdoor Power supply 230V/Single/50Hz | | | |
| Cooling | Design load | kW | 2.0 | 2.5 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 86 | 108 |
| | SEER ⁽⁴⁾ | | 8.1 | 8.1 |
| | Energy efficiency class | | A++ | A++ |
| | Capacity | | | |
| Heating (Average Season) ⁽³⁾ | Rated | kW | 2.0 | 2.5 |
| | Min-Max | kW | 0.5-2.9 | 0.5-3.0 |
| | Total Input | Rated | kW | 0.450 |
| | Design load | kW | 1.5 (-10°C) | 1.9 (-10°C) |
| | Declared Capacity | | | |
| | at reference design temperature | kW | 1.5 (-10°C) | 1.9 (-10°C) |
| | at bivalent temperature | kW | 1.5 (-10°C) | 1.9 (-10°C) |
| | at operation limit temperature | kW | 1.3 (-15°C) | 1.7 (-15°C) |
| | Back up heating capacity | kW | 0.0 (-10°C) | 0.0 (-10°C) |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 487 | 577 |
| Operating Current (Max) | SCOP ⁽⁴⁾ | | 4.3 | 4.6 |
| | Energy efficiency class | | A+ | A++ |
| | Rated | kW | 2.5 | 3.15 |
| | Min-Max | kW | 0.7-3.2 | 0.7-3.5 |
| | Total Input | Rated | kW | 0.550 |
| Indoor Unit | Operating Current (Max) | A | 5.6 | 7.0 |
| | Input | Rated | kW | 0.024 |
| | Operating Current (Max) | A | 0.25 | 0.25 |
| | Dimensions | H*W*D | mm | 280-838-235 |
| | Weight | kg | 9 | 9 |
| | Air Volume (Lo-Mid-Hi-SH) ⁽⁵⁾ | Cooling | m³/min | 4.2 - 5.2 - 6.8 - 8.7 - 10.9 |
| | Heating | m³/min | 4.2 - 5.0 - 6.8 - 9.0 - 11.9 | 4.2 - 5.0 - 6.8 - 9.0 - 11.9 |
| | Sound Level (SPL) (Lo-Mid-Hi-SH) ⁽⁵⁾ | Cooling | dB(A) | 19 - 22 - 30 - 37 - 43 |
| | Heating | dB(A) | 20 - 23 - 30 - 37 - 43 | 20 - 23 - 30 - 37 - 43 |
| | Sound Level (PWL) | Cooling | dB(A) | 57 |
| Outdoor Unit | Heating | dB(A) | 57 | 60 |
| | Dimensions | H*W*D | mm | 538-699-249 |
| | Weight | kg | 23 | 24 |
| | Air Volume | Cooling | m³/min | 30.3 |
| | Heating | m³/min | 30.3 | 32.2 |
| | Sound Level (SPL) | Cooling | dB(A) | 50 |
| | Heating | dB(A) | 50 | 52 |
| | Sound Level (PWL) | Cooling | dB(A) | 63 |
| | Heating | dB(A) | 63 | 64 |
| | Operating Current (Max) | A | 5.3 | 6.7 |
| Ext. Piping | Breaker Size | A | 10 | 10 |
| | Diameter | Liquid/Gas | mm | 6.35 / 9.52 |
| | Max.Length | Out-In | m | 20 |
| | Max.Height | Out-In | m | 12 |
| | Guaranteed Operating Range (Outdoor) | Cooling | °C | -10 ~ +46 |
| | | Heating | °C | -15 ~ +24 |

⁽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 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⁾ 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 53-55 for heating (warmer season) specifications.

MSZ-HR SERIES

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.

R32

MSZ-HR25/35/42/50VF(K)

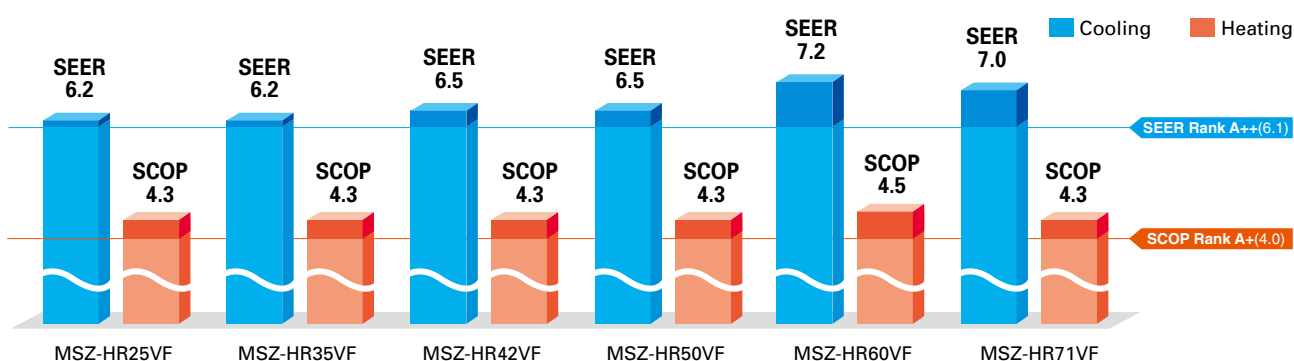
MSZ-HR60/71VF(K)



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

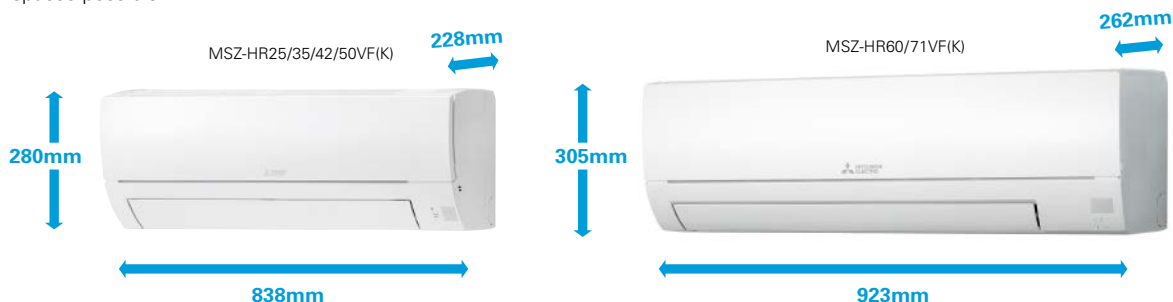


All models in the series, from capacity 25 to 71, have achieved the "Rank A++" for SEER and "Rank A+" for SCOP as energy-savings rating, thanks to Mitsubishi Electric's inverter technologies which are adopted to provide automatic adjustment of operation load according to need.



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

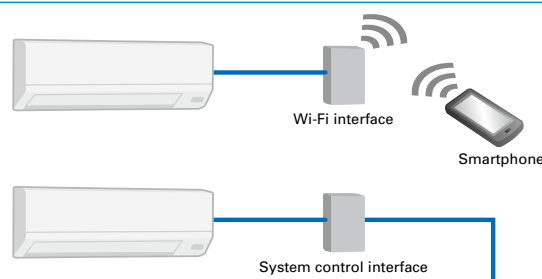
Wi-Fi Interface (Built-in) *Only V GK model

Built-in 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 remote-control such as the PAR-41MAA is possible.
- Centralised control is possible when connected to M-NET.

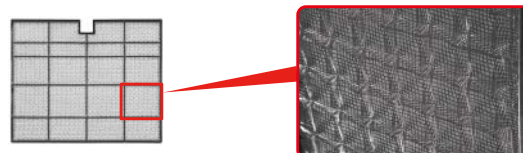
*Wi-Fi Interface and System Control Interface cannot be used simultaneously.



Air Purifying Filter



This filter generates stable antibacterial and deodorising 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.



* It is okay to wash the filter with water (air-cleaning effect is maintained)

3D surface (Waved surface)

MSZ-HR SERIES



Indoor Unit

R32



MSZ-HR25/35/42/50VF(K)



MSZ-HR60/71VF(K)

Outdoor Unit



MUZ-HR25VF



MUZ-HR35VF

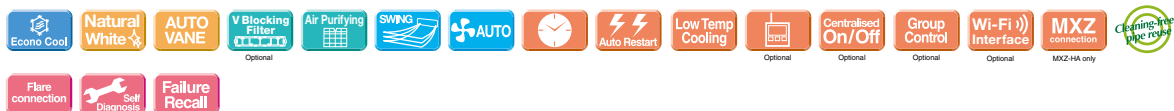


MUZ-HR42/50VF



MUZ-HR60/71VF

Remote Controller



| Type | | | Inverter Heat Pump | | | | | | | |
|--|---|---------------------------------|----------------------|------------------------|------------------------|-------------------------|-------------------------|---------------------------|---------------------------|-------------|
| Indoor Unit | | | MSZ-HR25VF(K) | MSZ-HR35VF(K) | MSZ-HR42VF(K) | MSZ-HR50VF(K) | MSZ-HR60VF(K) | MSZ-HR71VF(K) | | |
| Outdoor Unit | | | MUZ-HR25VF | MUZ-HR35VF | MUZ-HR42VF | MUZ-HR50VF | MUZ-HR60VF | MUZ-HR71VF | | |
| Refrigerant | | | R32 ⁽¹⁾ | | | | | | | |
| Power Supply | Source | | Outdoor Power supply | | | | | | | |
| | Outdoor (V / Phase / Hz) | | 230V/Single/50Hz | | | | | | | |
| Cooling | 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 | |
| | Energy efficiency class | | | A++ | A++ | A++ | A++ | A++ | A++ | |
| | Capacity | Rated | kW | 2.5 | 3.4 | 4.2 | 5.0 | 6.1 | 7.1 | |
| | | 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 | |
| Heating (Average Season) ⁽³⁾ | 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) | |
| | Declared Capacity | 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) | |
| | | 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) | |
| | | 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) | |
| | 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) | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 614 | 781 | 928 | 1224 | 1430 | 1755 | |
| | SCOP ⁽⁴⁾ | | | 4.3 | 4.3 | 4.3 | 4.3 | 4.5 | 4.3 | |
| | Energy efficiency class | | | A+ | A+ | A+ | A+ | A+ | A+ | |
| | Capacity | Rated | kW | 3.15 | 3.6 | 4.7 | 5.4 | 6.8 | 8.1 | |
| | | 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 | |
| Total Input | | Rated | kW | 0.850 | 0.975 | 1.300 | 1.550 | 1.810 | 2.440 | |
| Operating Current (Max) | | | A | 5.0 | 6.7 | 8.5 | 10.0 | 14.1 | 14.1 | |
| Indoor Unit | Input | | Rated | kW | 0.020 | 0.028 | 0.032 | 0.039 | 0.055 | 0.055 |
| | Operating Current(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 | |
| | Air Volume (Lo-Mid-Hi-SH) ⁽⁵⁾ | 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 | |
| | | 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) (Lo-Mid-Hi-SH) ⁽⁵⁾ | 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 | |
| | | 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 |
| Outdoor Unit | 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 | |
| | | Heating | m³/min | 30.3 | 32.2 | 32.7 | 32.7 | 48.3 | 48.3 | |
| | Sound Level (SPL) | Cooling | dB(A) | 50 | 51 | 50 | 50 | 53 | 53 | |
| | | Heating | dB(A) | 50 | 51 | 51 | 51 | 57 | 57 | |
| | Sound Level (PWL) | Cooling | dB(A) | 63 | 64 | 64 | 64 | 65 | 66 | |
| | | Heating | dB(A) | 63 | 64 | 64 | 64 | 65 | 66 | |
| | Operating Current (Max) | | A | 4.8 | 6.4 | 8.2 | 9.6 | 13.6 | 13.6 | |
| | Breaker Size | | A | 10 | 10 | 10 | 12 | 16 | 16 | |
| Ext. Piping | 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 | |
| | Max.Length | Out-In | m | 20 | 20 | 20 | 20 | 30 | 30 | |
| | Max.Height | Out-In | m | 12 | 12 | 12 | 12 | 15 | 15 | |
| Guaranteed Operating Range (Outdoor) | Cooling | °C | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | |
| | Heating | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | |

(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 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) 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 53-55 for heating (warmer season) specifications.

MSZ-DW SERIES

Introducing an indoor unit that is compact yet packed with a variety of features.

High energy saving performance and Air Purifying Filter bring you a comfortable indoor environment.

MSZ-DW25/35/50VF

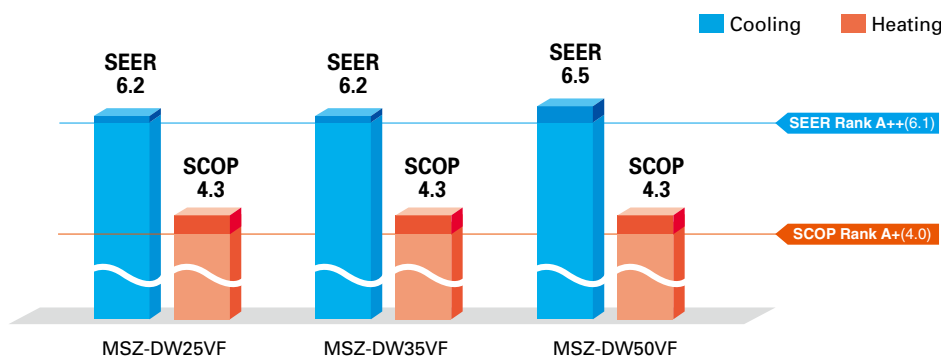
R32



Energy Saving



Mitsubishi Electric's inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises Energy Rank "A++" for SEER (cooling) and "A+" for SCOP (heating).



Simple and Compact Design

The stylish design makes it a natural match for any room. The width of indoor units is compact, making installation in smaller, tighter spaces possible.



Simple Control

The simple remote controller and functions provide the easy control solution and comforts of life.



Wi-Fi and System Control

Wi-Fi Interface (Optional)

Optional interface and a Cloud-based solution "MELCloud" enable users to control air conditioners and check operating status via devices such as laptops, tablets and smartphones.

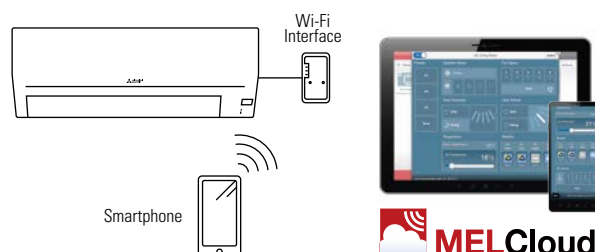
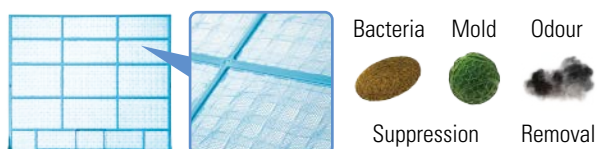
System Control Interface (Optional)

- Remote on/off operation is possible by input to the connector.
- Depending on the interface used, connecting a wired remote control such as the PAR-41MAA is possible.
- Centralised control is possible when connected to M-NET.

Air Purifying Filter



Air Purifying Filter generates stable antibacterial, antifungal, and deodorant effects. The three-dimensional surface expands the filter's capture area and contributes to the better dust collection performance than conventional filters.



MSZ-DW SERIES



Indoor Unit

R32



MSZ-DW25/35/50VF

Outdoor Unit



MUZ-DW25VF



MUZ-DW35VF



MUZ-DW50VF

Remote Controller



| Type | Inverter Heat Pump | | | |
|--|---|--------|-----------------------|------------------------|
| Indoor Unit | MSZ-DW25VF | | MSZ-DW35VF | MSZ-DW50VF |
| Outdoor Unit | MUZ-DW25VF | | MUZ-DW35VF | MUZ-DW50VF |
| Refrigerant | R32 ⁽¹⁾ | | | |
| Power Supply | Outdoor Power supply 230V/Single/50-Hz | | | |
| Cooling | Design load | kW | 2.5 | 3.4 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 135 | 184 |
| | SEER ⁽⁴⁾ | | 6.2 | 6.5 |
| | Energy efficiency class | | A++ | A++ |
| | Capacity | kW | 2.5 | 3.4 |
| | Total Input | kW | 0.800 | 1.210 |
| Heating (Average Season) ⁽³⁾ | Design load | kW | 1.9 (-10°C) | 2.4 (-10°C) |
| | Declared Capacity | kW | 1.9 (-10°C) | 2.4 (-10°C) |
| | at reference design temperature | kW | 1.9 (-10°C) | 2.4 (-10°C) |
| | at bivalent temperature | kW | 1.9 (-10°C) | 2.4 (-10°C) |
| | at operation limit temperature | kW | 1.9 (-10°C) | 2.4 (-10°C) |
| | Back up heating capacity | kW | 0.0 (-10°C) | 0.0 (-10°C) |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 618 | 781 |
| | SCOP ⁽⁴⁾ | | 4.3 | 4.3 |
| | Energy efficiency class | | A+ | A+ |
| | Capacity | kW | 3.15 | 3.6 |
| Indoor Unit | Operating Current (Max) | A | 5.0 | 6.7 |
| | Input | kW | 0.023 | 0.028 |
| | Operating Current(Max) | A | 0.24 | 0.28 |
| | Dimensions | H*W*D | 290-799-232 | 290-799-232 |
| | Weight | kg | 9 | 10 |
| | Air Volume (Lo-Mid-Hi-SH) ⁽⁵⁾ | m³/min | 3.6 - 5.6 - 7.5 - 9.9 | 3.6 - 5.8 - 8.1 - 11.3 |
| | Sound Level (SPL) (Lo-Mid-Hi-SH) ⁽⁵⁾ | dB(A) | 21 - 30 - 37 - 43 | 22 - 31 - 38 - 46 |
| | Sound Level (PWL) | dB(A) | 57 | 60 |
| | Dimensions | H*W*D | 538-699-249 | 538-699-249 |
| | Weight | kg | 23 | 24 |
| Outdoor Unit | Air Volume | m³/min | 30.3 | 32.2 |
| | Sound Level (SPL) | dB(A) | 50 | 51 |
| | Sound Level (PWL) | dB(A) | 63 | 64 |
| | Operating Current (Max) | A | 5.3 | 7.0 |
| | Breaker Size | A | 10 | 12 |
| | Diameter | mm | 6.35 / 9.52 | 6.35 / 9.52 |
| | Max.Length | m | 20 | 20 |
| | Max.Height | m | 12 | 12 |
| | Guaranteed Operating Range (Outdoor) | °C | -10 ~ +46 | -10 ~ +46 |
| | | °C | -10 ~ +24 | -10 ~ +24 |

(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. 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.

(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 53-55 for heating (warmer season) specifications.

MSY-TP_{SERIES}

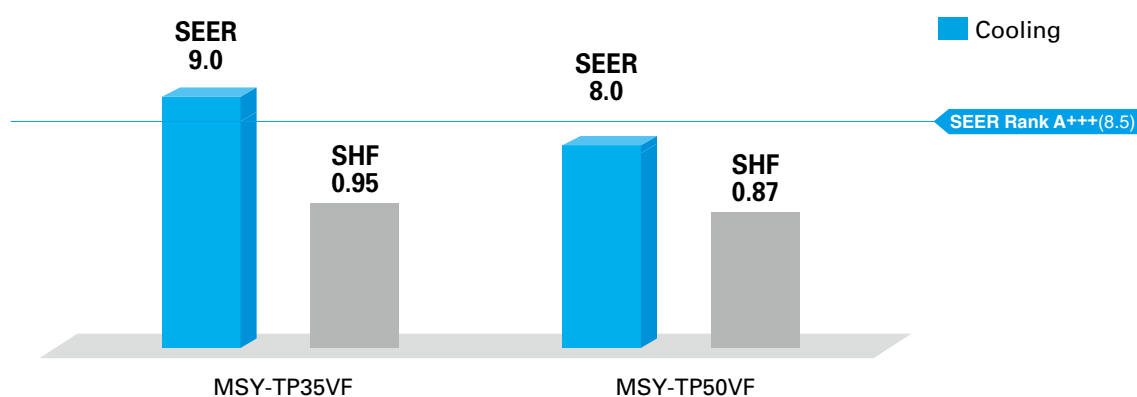
Cooling only model with high-performance provide high SHF in various environments thanks to wide operation range.

R32

MSY-TP35/50VF

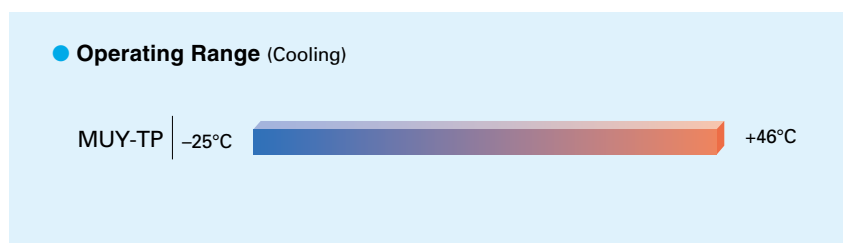


High Energy-Saving Performance with High SHF



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.



MSY-TP SERIES



Indoor Unit

R32



MSY-TP35/50VF

Outdoor Unit

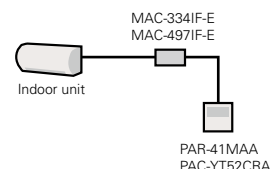
R32



MUY-TP35/TP50VF

Remote Controller

- Wired remote controller can be connected to indoor unit.



| Type | | | | Inverter Heat Pump | | | | |
|--|---|---------------------------------|------------|---------------------------|-------------|---------------------------|-------------|--|
| Indoor Unit | | | | MSY-TP35VF | | MSY-TP50VF | | |
| Outdoor Unit | | | | MUY-TP35VF | | MUY-TP50VF | | |
| Refrigerant | | | | R32 ⁽¹⁾ | | | | |
| Power Supply | Source | | | Indoor Power supply | | | | |
| | Outdoor (V / Phase / Hz) | | | 230V / Single / 50Hz | | | | |
| Cooling | 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++ | | |
| | Capacity | Rated | kW | 3.5 | | 5.0 | | |
| | | Min-Max | kW | 1.5 - 4.0 | | 1.5 - 5.7 | | |
| Total Input | | Rated | kW | 0.760 | | 1.450 | | |
| Heating (Average Season) ⁽³⁾ | Design load | | kW | - | | - | | |
| | Declared Capacity | at reference design temperature | kW | - | | - | | |
| | | at bivalent temperature | kW | - | | - | | |
| | | at operation limit temperature | kW | - | | - | | |
| | Back up heating capacity | | kW | - | | - | | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | - | | - | | |
| | SCOP ⁽⁴⁾ | | | - | | - | | |
| | Energy efficiency class | | | - | | - | | |
| | Capacity | Rated | kW | - | | - | | |
| | | Min-Max | kW | - | | - | | |
| | Total Input | | Rated | kW | - | | - | |
| Operating Current (Max) | | | | A | | 9.6 | | |
| Indoor Unit | Input | | Rated | kW | 0.033 | | 0.034 | |
| | Operating Current (Max) | | | A | 0.4 | | 0.4 | |
| | Dimensions | | H*W*D | mm | 305-923-250 | | 305-923-250 | |
| | Weight | | | kg | 12.5 | | 12.5 | |
| | Air Volume (Lo-Mid-Hi-SH ⁽³⁾) | Cooling | m³/min | 10.1 - 11.6 - 13.7 - 16.4 | | 10.1 - 11.6 - 13.7 - 16.4 | | |
| | | Heating | m³/min | - | | - | | |
| | Sound Level (SPL) (Lo-Mid-Hi-SH ⁽³⁾) | Cooling | dB(A) | 31 - 36 - 40 - 45 | | 31 - 36 - 40 - 45 | | |
| | | Heating | dB(A) | - | | - | | |
| | Sound Level (PWL) | | Cooling | dB(A) | 60 | | 60 | |
| | Breaker Size | | | A | 10 | | 10 | |
| Outdoor Unit | Dimensions | | H*W*D | mm | 550-800-285 | | 550-800-285 | |
| | Weight | | | kg | 34 | | 34 | |
| | Air Volume | Cooling | m³/min | 29.3 | | 29.3 | | |
| | | Heating | m³/min | - | | - | | |
| | Sound Level (SPL) | Cooling | dB(A) | 45 | | 47 | | |
| | | Heating | dB(A) | - | | - | | |
| | Sound Level (PWL) | | Cooling | dB(A) | 58 | | 61 | |
| | Operating Current (Max) | | | A | 9.2 | | 9.2 | |
| Ext. Piping | Diameter | | Liquid/Gas | mm | 6.35/9.52 | | 6.35/9.52 | |
| | Max.Length | | Out-In | m | 20 | | 20 | |
| | Max.Height | | Out-In | m | 12 | | 12 | |
| Guaranteed Operating Range (Outdoor) | | Cooling | °C | -25 ~ +46 | | -25 ~ +46 | | |
| | | Heating | °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 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) The GWP of R32 is 675 in the IPCC 4th Assessment Report.

(3) SHi: Super High

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

MSZ-F SERIES



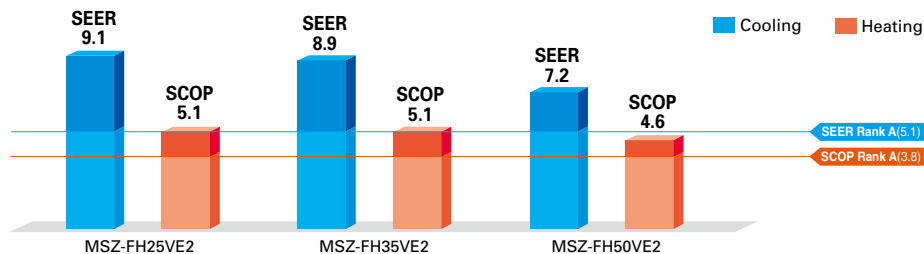
The F Series is designed for optimum cooling/heating performance as well as operational comfort. Quiet, energy-saving operation is supported by some of Mitsubishi Electric's latest technologies. Advanced functions such as "3D i-see Sensor" temperature control and the Plasma Quad air purification system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



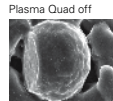
The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60 minutes.

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 plasma-based filter system that effectively removes four kinds of air pollutants; namely, bacteria, viruses, allergens and dust, which the air contains countless particles of.

Bacteria

Test results have confirmed that Plasma Quad neutralizes 99% of bacteria in 115 minutes in a 25m³ test space.



<Test No.> KRCEB-Bio.Test Report No.23_0317

Viruses

Test results have confirmed that Plasma Quad neutralizes 99% of virus particles in 65 minutes in a 25m³ test space.



* Hepatic cells turn transparent when affected by a virus.
<Test No.> vrc.center, SMC No.23-002

Effective deodorising using the air-purifying filter

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 neutralizes 94% of cat fur and 98% of pollen.

<Test No.> ITEA No.12M-RPTFEB022

Dust

In a test, air containing dust and ticks was passed through the air cleaning device at the low airflow setting. Before and after measurements confirm that Plasma Quad removes 88.6% of dust and ticks.

<Test No.> ITEA No.12M-RPTFEB022

(Image)

MSZ-F SERIES



Indoor Unit

R410A



MSZ-FH25/35/50VE2

Outdoor Unit

R410A



MUZ-FH25/35VE



MUZ-FH50VE

Remote Controller



| Type | | Inverter Heat Pump | | | |
|---|---|----------------------|----------------------|----------------------|-----------------------|
| Indoor Unit | | MSZ-FH25VE2 | MSZ-FH35VE2 | MSZ-FH50VE2 | |
| Outdoor Unit | | MUZ-FH25VE | MUZ-FH35VE | MUZ-FH50VE | |
| Refrigerant | | R410A ⁽¹⁾ | | | |
| Power Supply | Source | Outdoor Power supply | | | |
| | Outdoor (V / Phase / Hz) | 230/Single/50 | | | |
| Cooling | Design load | kW | 2.5 | 3.5 | 5.0 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 96 | 138 | 244 |
| | SEER ⁽⁴⁾ | | 9.1 | 8.9 | 7.2 |
| | Energy efficiency class | | A+++ | A+++ | A++ |
| | Capacity | | | | |
| Heating | Declared Capacity | kW | 2.5 | 3.5 | 5.0 |
| | at reference design temperature | kW | 2.5 | 3.5 | 5.0 |
| | at bivalent temperature | kW | 1.4-3.5 | 0.8-4.0 | 1.9-6.0 |
| | at operation limit temperature | kW | 0.485 | 0.820 | 1.380 |
| | Back up heating capacity | kW | 3.0(-10°C) | 3.6(-10°C) | 4.5(-10°C) |
| Heating (Average Season) ⁽³⁾ | Annual electricity consumption ⁽²⁾ | kWh/a | 3.0(-10°C) | 3.6(-10°C) | 4.5(-10°C) |
| | SCOP ⁽⁴⁾ | | 2.5(-15°C) | 3.2(-15°C) | 5.2(-15°C) |
| | Energy efficiency class | | 0.0(-10°C) | 0.0(-10°C) | 0.0(-10°C) |
| | Capacity | | | | |
| | at reference design temperature | kW | 819 | 986 | 1372 |
| Operating Current (Max) | Input | kW | 5.1 | 5.1 | 4.6 |
| | Operating Current(Max) | A | 3.2 | 4.0 | 6.0 |
| | Dimensions | H*W*D | 1.8-5.5 | 1.0-6.3 | 1.7-8.7 |
| | Weight | kg | 0.580 | 0.800 | 1.480 |
| | Breaker Size | A | 9.6 | 10.0 | 14.0 |
| Indoor Unit | Air Volume | m³/min | 0.029 | 0.029 | 0.031 |
| | Sound Level (SPL) | dB(A) | 0.4 | 0.4 | 0.4 |
| | Sound Level (PWL) | dB(A) | 305(+17)-925-234 | 305(+17)-925-234 | 305(+17)-925-234 |
| | Dimensions | H*W*D | 13.5 | 13.5 | 13.5 |
| | Weight | kg | 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 |
| Outdoor Unit | Air Volume | 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) | dB(A) | 20-23-29-36-42 | 21-24-29-36-42 | 27-31-35-39-44 |
| | Sound Level (PWL) | dB(A) | 20-24-29-36-44 | 21-24-29-36-44 | 25-29-34-39-46 |
| | Dimensions | H*W*D | 58 | 58 | 60 |
| | Weight | kg | 550-800-285 | 550-800-285 | 880-840-330 |
| Ext. Piping | Air Volume | m³/min | 37 | 37 | 55 |
| | Sound Level (SPL) | dB(A) | 31.3 | 33.6 | 48.8 |
| | Sound Level (PWL) | dB(A) | 31.3 | 33.6 | 51.3 |
| | Dimensions | H*W*D | 46 | 49 | 51 |
| | Weight | kg | 49 | 50 | 54 |
| Guaranteed Operating Range (Outdoor) | Air Volume | m³/min | 60 | 61 | 64 |
| | Sound Level (SPL) | dB(A) | 9.2 | 9.6 | 13.6 |
| | Sound Level (PWL) | dB(A) | 10 | 10 | 16 |
| | Dimensions | H*W*D | 6.35 / 9.52 | 6.35 / 9.52 | 6.35 / 12.7 |
| | Weight | kg | 20 | 20 | 30 |
| Guaranteed Operating Range (Outdoor) | Max.Length | m | 12 | 12 | 15 |
| | Max.Height | m | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 |
| | Guaranteed Operating Range (Outdoor) | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |
| | Guaranteed Operating Range (Outdoor) | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |
| | Guaranteed Operating Range (Outdoor) | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

(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 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 53-55 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.

R410A



MSZ-SF15/20VA



MSZ-SF25/35/42/50VE3

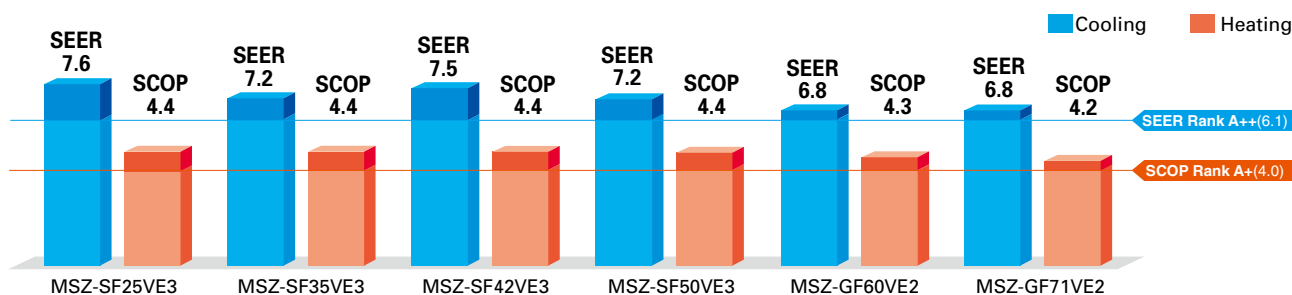
MSZ-GF60/71VE2



"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.

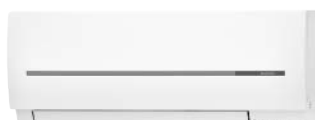


Wide Line-up

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



MSZ-SF15 / 20VA*
*for MXZ connection



MSZ-SF25 / 35 / 42 / 50VE3



MSZ-GF60 / 71VE2

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. |
|-------------------------|--|---------|---------|---------|---------|---------|--|
| 6:00 | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C |
| 8:00 | Automatically changes to high-power operation at wake-up time | | | | | | |
| 10:00 | OFF | OFF | OFF | OFF | OFF | ON 18°C | ON 18°C |
| 12:00 | Automatically turned off during work hours | | | | | | Midday is warmer, so the temperature is set lower |
| 14:00 | | | | | | | |
| 16:00 | | | | | | | |
| 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 turns on, synchronized with arrival at home | | | | | | Automatically raises temperature setting to match time when outside-air temperature is low |
| 22:00 | | | | | | | |
| (during sleeping hours) | 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 | | | | | | |

Settings

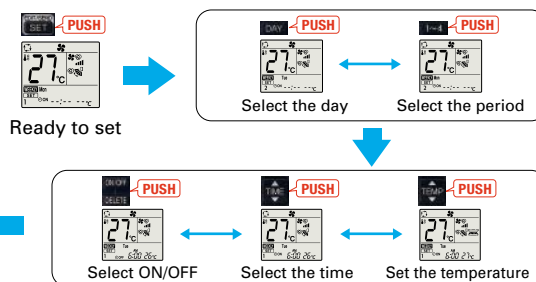
Pattern Settings: Input up to four settings for each day

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

■ Easy set-up using dedicated buttons



The remote controller is equipped with buttons that are used exclusively for setting the Weekly Timer. Setting operation patterns is easy and quick.



- 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.

without
“Low standby power”

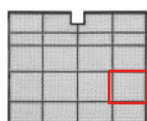
with
“Low standby power”



Air Purifying Filter

(MSZ-SF25/35/42/50, MSZ-GF60/71)

This filter generates stable antibacterial and deodorising 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.



* It is okay to wash the filter with water (air-cleaning effect is maintained)

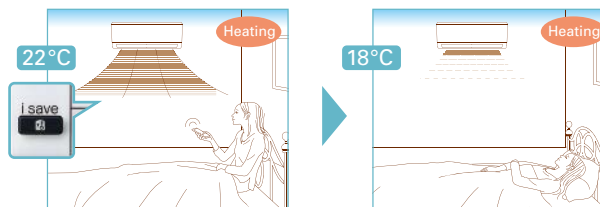


3D surface (Waved surface)

“i save” Mode



“i save” is a simplified setting function that recalls the preferred (pre-set) 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 (25/35/42/50)

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.

Standard Units

Heater Installed



MUZ-SF25/35/42VE MUZ-SF50VE



MUZ-SF25/35/42VEH MUZ-SF50VEH

MSZ-S SERIES



Indoor Unit

R410A



GOOD DESIGN
AWARD 2014



MSZ-SF15/20VA

Outdoor Unit

For MXZ Connection Only

Remote Controller



| Type | | Inverter Heat Pump | | | | | |
|---|---|----------------------|------------|-----------------------------|-----------------------------|---------------------------------------|---------------------------------------|
| Indoor Unit | | MSZ-SF15VA | MSZ-SF20VA | MSZ-SF25VE3 | MSZ-SF25VE3 | MSZ-SF35VE3 | MSZ-SF35VE3 |
| Outdoor Unit | | for MXZ connection | | MUZ-SF25VE | MUZ-SF25VEH | MUZ-SF35VE | MUZ-SF35VEH |
| Refrigerant | | R410A ⁽¹⁾ | | | | | |
| Power Supply | | Outdoor Power supply | | | | | |
| Source | | 230/Single/50 | | | | | |
| Outdoor (V / Phase / Hz) | | | | | | | |
| Cooling | Design load | kW | - | - | 2.5 | 2.5 | 3.5 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | - | - | 116 | 116 | 171 |
| | SEER ⁽⁴⁾ | | - | - | 7.6 | 7.6 | 7.2 |
| | Energy efficiency class | | - | - | A++ | A++ | A++ |
| | Capacity | | | | | | |
| Heating (Average Season) ⁽⁵⁾ | Rated | kW | - | - | 2.5 | 2.5 | 3.5 |
| | Min-Max | kW | - | - | 0.9-3.4 | 0.9-3.4 | 1.1-3.8 |
| | Total Input | Rated | kW | - | 0.600 | 0.600 | 1.080 |
| | Design load | kW | - | - | 2.4(-10°C) | 2.4(-10°C) | 2.9(-10°C) |
| | Declared Capacity | | | | | | |
| Heating (Average Season) ⁽⁵⁾ | at reference design temperature | kW | - | - | 2.4(-10°C) | 2.4(-10°C) | 2.9(-10°C) |
| | at bivalent temperature | kW | - | - | 2.4(-10°C) | 2.4(-10°C) | 2.9(-10°C) |
| | at operation limit temperature | kW | - | - | 2.4(-10°C) | 2.4(-10°C) | 2.9(-10°C) |
| | Back up heating capacity | kW | - | - | 0.0(-10°C) | 0.0(-10°C) | 0.0(-10°C) |
| | Annual electricity consumption ⁽²⁾ | kWh/a | - | - | 764 | 790 | 948 |
| Heating (Average Season) ⁽⁵⁾ | SCOP ⁽⁴⁾ | | - | - | 4.4 | 4.3 | 4.3 |
| | Energy efficiency class | | - | - | A+ | A+ | A+ |
| | Capacity | | | | | | |
| | Rated | kW | - | - | 3.2 | 3.2 | 4.0 |
| | Min-Max | kW | - | - | 1.0-4.1 | 1.0-4.1 | 1.3-4.6 |
| Indoor Unit | Total Input | Rated | kW | - | 0.780 | 0.780 | 1.030 |
| | Operating Current (Max) | A | - | - | 8.4 | 8.5 | 8.5 |
| | Input | Rated | kW | 0.017 | 0.019 | 0.024 | 0.024 |
| | Operating Current (Max) | A | - | 0.17 | 0.19 | 0.2 | 0.3 |
| | Dimensions | H*W*D | mm | 250-760-168 | 250-760-168 | 299-798-195 | 299-798-195 |
| Indoor Unit | Weight | kg | - | 7.7 | 10 | 10 | 10 |
| | Air Volume | | | | | | |
| | (SLo-Lo-Mid-Hi-SH) ⁽³⁾ | 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 |
| | (SLo-Lo-Mid-Hi-SH) ⁽³⁾ | 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 - 8.3 - 11.0 |
| | Sound Level (SPL) | Cooling | dB(A) | 21 - 26 - 30 - 35 - 40 | 21 - 26 - 30 - 35 - 42 | 19 ⁽⁶⁾ - 24 - 30 - 36 - 42 | 19 ⁽⁶⁾ - 24 - 30 - 36 - 42 |
| Outdoor Unit | Sound Level (SPL) | Heating | dB(A) | 21 - 26 - 30 - 35 - 40 | 21 - 26 - 30 - 35 - 42 | 19 ⁽⁶⁾ - 24 - 34 - 39 - 45 | 19 ⁽⁶⁾ - 24 - 34 - 40 - 46 |
| | Sound Level (PWL) | Cooling | dB(A) | 59 | 60 | 57 | 57 |
| | Dimensions | H*W*D | mm | - | - | 550-800-285 | 550-800-285 |
| | Weight | kg | - | - | 31 | 31 | 31 |
| | Air Volume | | | | | | |
| Outdoor Unit | Cooling | m³/min | - | - | 31.1 | 31.1 | 35.9 |
| | Heating | m³/min | - | - | 30.7 | 30.7 | 35.9 |
| | Sound Level (SPL) | Cooling | dB(A) | - | - | 47 | 49 |
| | Heating | dB(A) | - | - | 48 | 48 | 50 |
| | Sound Level (PWL) | Cooling | dB(A) | - | - | 58 | 62 |
| Ext. Piping | Operating Current (Max) | A | - | - | 8.2 | 8.2 | 8.2 |
| | Breaker Size | A | - | - | 10 | 10 | 10 |
| | Diameter | Liquid/Gas | mm | 6.35/9.52 | 6.35/9.52 | 6.35 / 9.52 | 6.35 / 9.52 |
| | Max.Length | Out-In | m | - | - | 20 | 20 |
| | Max.Height | Out-In | m | - | - | 12 | 12 |
| Guaranteed Operating Range (Outdoor) | Cooling | °C | - | - | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 |
| | Heating | °C | - | - | -15 ~ +24 | -20 ~ +24 | -20 ~ +24 |

(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 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) 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 53-55 for heating (warmer season) specifications.

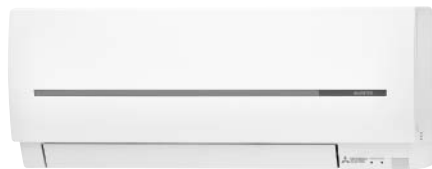
(6) For single use: only 19dB(A). For multi use (MXZ): 21dB(A).

MSZ-S SERIES MSZ-G SERIES



Indoor Unit

R410A



MSZ-SF25/35/42/50VE3



MSZ-GF60/71VE2

Outdoor Unit

R410A

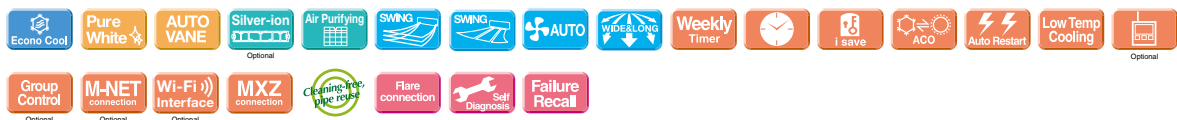


MUZ-SF25/35/42VE(H)



MUZ-SF50VE(H)
MUZ-GF60/71VE

Remote Controller



| Type | | | Inverter Heat Pump | | | | | |
|---|---|---------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-------------------------|--------------------------|
| Indoor Unit | | | MSZ-SF42VE3 | MSZ-SF42VE3 | MSZ-SF50VE3 | MSZ-SF50VE3 | MSZ-GF60VE2 | MSZ-GF71VE2 |
| Outdoor Unit | | | MUZ-SF42VE | MUZ-SF42VEH | MUZ-SF50VE | MUZ-SF50VEH | MUZ-GF60VE | MUZ-GF71VE |
| Refrigerant | | | R410A ⁽¹⁾ | | | | | |
| Power Source | | | Outdoor Power supply | | | | | |
| Supply Outdoor (V / Phase / Hz) | | | 230/Single/50 | | | | | |
| Cooling | 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 |
| | Energy efficiency class | | A++ | A++ | A++ | A++ | A++ | A++ |
| | Capacity | | | | | | | |
| Heating (Average Season) ⁽⁵⁾ | Rated | kW | 4.2 | 4.2 | 5.0 | 5.0 | 6.1 | 7.1 |
| | 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 | 1.790 | 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) |
| | Declared Capacity | at reference design temperature | kW | 3.8 (-10°C) | 3.8 (-10°C) | 4.2 (-10°C) | 4.6 (-10°C) | 6.7 (-10°C) |
| | | at bivalent temperature | kW | 3.8 (-10°C) | 3.8 (-10°C) | 4.2 (-10°C) | 4.6 (-10°C) | 6.7 (-10°C) |
| | | at operation limit temperature | kW | 3.4 (-15°C) | 2.2 (-20°C) | 3.4 (-15°C) | 3.7 (-20°C) | 5.4 (-15°C) |
| | 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) |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 1215 | 1242 | 1351 | 1380 | 1489 | 2204 |
| | SCOP ⁽⁴⁾ | | 4.4 | 4.3 | 4.4 | 4.3 | 4.3 | 4.2 |
| Indoor Unit | 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 | 1.810 | 2.230 |
| | Operating Current (Max) | A | 9.5 | 9.5 | 12.3 | 12.3 | 14.5 | 16.6 |
| | Input | Rated | kW | 0.027 | 0.027 | 0.035 | 0.035 | 0.058 |
| | Operating Current(Max) | A | 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 |
| | Weight | kg | 10 | 10 | 10 | 10 | 16 | 16 |
| Outdoor Unit | Air Volume (SLo-Lo-Mid-Hi-SH) ⁽⁶⁾ | 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 | 9.7-11.5-13.3-15.4-17.8 |
| | 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 | 10.2-11.5-13.3-15.4-17.8 |
| | Sound Level (SPL) (SLo-Lo-Mid-Hi-SH) ⁽⁶⁾ | dB(A) | 26 ⁽⁶⁾ - 31 - 34 - 38 - 42 | 26 ⁽⁶⁾ - 31 - 34 - 38 - 42 | 28 ⁽⁷⁾ - 33 - 36 - 40 - 45 | 28 ⁽⁷⁾ - 33 - 36 - 40 - 45 | 29 - 37 - 41 - 45 - 49 | 30 - 37 - 41 - 45 - 49 |
| | Heating | dB(A) | 26 ⁽⁶⁾ - 31 - 36 - 42 - 47 | 26 ⁽⁶⁾ - 31 - 36 - 42 - 47 | 28 ⁽⁷⁾ - 33 - 38 - 43 - 49 | 28 ⁽⁷⁾ - 33 - 38 - 43 - 49 | 29 - 37 - 41 - 45 - 49 | 30 - 37 - 41 - 45 - 49 |
| | Sound Level (PWL) | 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 |
| | Weight | kg | 35 | 35 | 55 | 55 | 50 | 53 |
| | Air Volume | Cooling | m³/min | 35.2 | 35.2 | 44.6 | 44.6 | 49.2 |
| | Heating | m³/min | 33.6 | 33.6 | 44.6 | 44.6 | 49.2 | 48.2 |
| | Sound Level (SPL) | Cooling | dB(A) | 50 | 50 | 52 | 52 | 55 |
| Ext. Piping | Heating | dB(A) | 51 | 51 | 52 | 52 | 55 | 55 |
| | Sound Level (PWL) | Cooling | dB(A) | 63 | 63 | 65 | 65 | 65 |
| | Operating Current (Max) | A | 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 |
| | Max.Length | Out-In | m | 20 | 20 | 30 | 30 | 30 |
| | Max.Height | Out-In | m | 12 | 12 | 15 | 15 | 15 |
| | Guaranteed Operating Range (Outdoor) | Cooling | °C | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 |
| | | Heating | °C | -15 ~ +24 | -20 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

(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 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) 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 53-55 for heating (warmer season) specifications.

(6) For single use: only 26dB(A). For multi use (MXZ): 28dB(A).

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

MSZ-W SERIES

Introducing a stylish indoor unit with high-performance air purifying filters. Wi-Fi and system controller connectivity, and a heating operation range down to -15°C contribute to greater room comfort.

R410A

MSZ-WN25/35VA



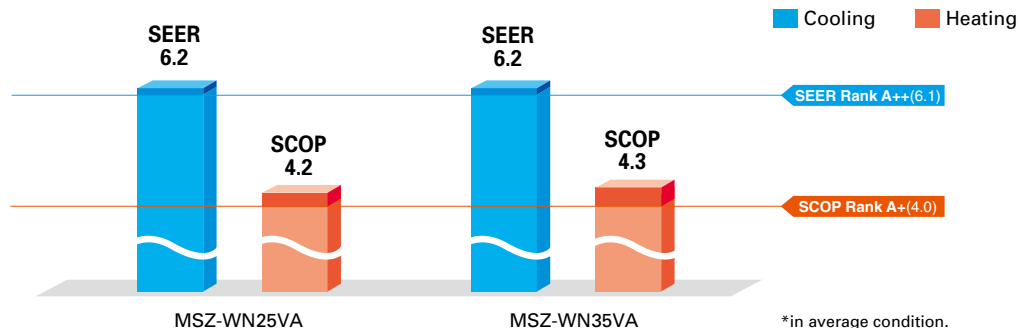
Advanced Inverter Control – Efficient Operation All the Time

DC Inverter

25/35 SEER A++

25/35 SCOP A+

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.

Operating Range (Heating)

MUZ-WN | -15°C to +24°C

Wi-Fi and System Control

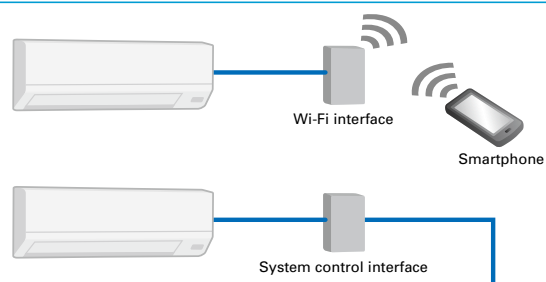
Wi-Fi Interface (Optional)

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)

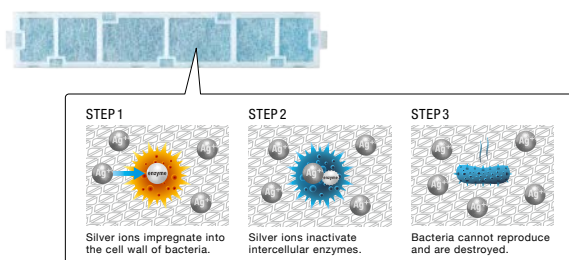
- Remote on/off operation is possible by input to the connector.
- Depending on the interface used, connecting a wired remote-control such as the PAR-41MAA is possible.
- Centralised control is possible when connected to M-NET.

*Wi-Fi Interface and System Control Interface cannot be used simultaneously.



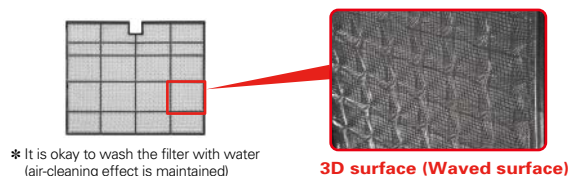
Silver-ionized Air Purifier Filter

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 deodorising 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-W SERIES



Indoor Unit

R410A



MSZ-WN25/35VA

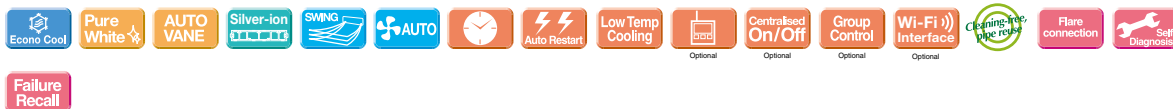
Outdoor Unit

R410A



MUZ-WN25/35VA

Remote Controller



| Type | | | | Inverter Heat Pump | |
|--|--|---------------------------------|-----------|------------------------|------------------------|
| Indoor Unit | | | | MSZ-WN25VA | |
| Outdoor Unit | | | | MUZ-WN25VA | |
| Refrigerant | | | | R410A ⁽¹⁾ | |
| Power Source | | | | Indoor Power Supply | |
| Supply Outdoor (V / Phase / Hz) | | | | 230V/Single/50Hz | |
| Cooling | Design load | | kW | 2.5 | 3.1 |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 141 | 173 |
| | SEER ⁽⁴⁾ | | | 6.2 | 6.2 |
| | Energy efficiency class | | | A++ | A++ |
| | Capacity | Rated | kW | 2.5 | 3.15 |
| | | Min-Max | kW | 1.3 - 3.0 | 1.4 - 3.5 |
| | Total Input | Rated | kW | 0.710 | 1.020 |
| Heating (Average Season) ⁽³⁾ | Design load | | kW | 1.9(-10°C) | 2.4(-10°C) |
| | Declared Capacity | at reference design temperature | kW | 1.9(-10°C) | 2.4(-10°C) |
| | | 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) |
| | Back up heating capacity | | kW | 0.0(-10°C) | 0.0(-10°C) |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 628 | 793 |
| | SCOP ⁽⁴⁾ | | | 4.2 | 4.3 |
| | | Energy efficiency class | | | A+ |
| | 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 | |
| Operating Current (Max) | | | | A | 5.8 |
| Indoor Unit | Input | | Rated | kW | 0.020 |
| | Operating Current(Max) | | | A | 0.3 |
| | Dimensions | | H*W*D | mm | 290-799-232 |
| | Weight | | | kg | 9 |
| | Air Volume (Lo-Mid-Hi-SH) ⁽⁵⁾ | Cooling | m³/min | 3.8 - 5.5 - 7.3 - 9.5 | 3.8 - 5.7 - 7.8 - 11.4 |
| | | Heating | m³/min | 3.5 - 5.5 - 7.5 - 10.0 | 3.5 - 5.5 - 7.5 - 10.3 |
| | Sound Level (SPL) (Lo-Mid-Hi-SH) ⁽⁵⁾ | Cooling | dB(A) | 22 - 30 - 37 - 43 | 22 - 31 - 38 - 46 |
| | | 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 |
| Outdoor Unit | Weight | | | kg | 24 |
| | Air Volume | Cooling | m³/min | 31.5 | 31.5 |
| | | Heating | m³/min | 31.5 | 31.5 |
| | Sound Level (SPL) | Cooling | dB(A) | 50 | 52 |
| | | Heating | dB(A) | 50 | 52 |
| | Sound Level (PWL) | Cooling | dB(A) | 63 | 64 |
| | Operating Current (Max) | | | A | 5.5 |
| | Breaker Size | | | A | 10 |
| Ext. Piping | Diameter | Liquid/Gas | mm | 6.35/9.52 | 6.35/9.52 |
| | Max.Length | Out-In | m | 20 | 20 |
| | Max.Height | Out-In | m | 12 | 12 |
| Guaranteed Operating Range (Outdoor) | Cooling | °C | -10 ~ +46 | -10 ~ +46 | |
| | Heating | °C | -15 ~ +24 | -15 ~ +24 | |

⁽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 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⁾ 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".

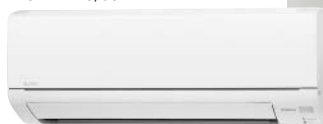
⁽⁵⁾ Please see page 53-55 for heating (warmer season) specifications.

MSZ-D SERIES

Compact, high-performance indoor and outdoor units equipped with high-performance air purifying filters contribute to greater room comfort. Wi-Fi and system controller connectivity enable enhanced expandability.

R410A

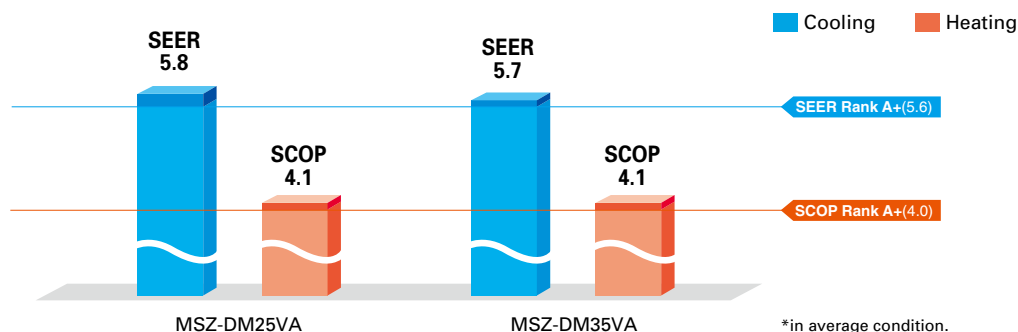
MSZ-DM25/35VA



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 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.

Operating Range (Cooling)

MUZ-DM | -10°C to +46°C

Wi-Fi and System Control

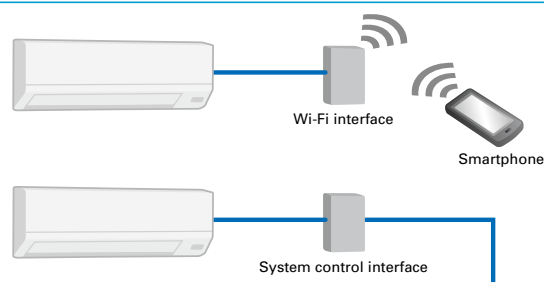
Wi-Fi Interface (Optional)

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)

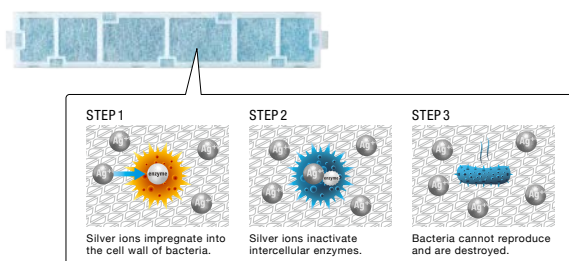
- Remote on/off operation is possible by input to the connector.
- Depending on the interface used, connecting a wired remote-control such as the PAR-41MAA is possible.
- Centralised control is possible when connected to M-NET.

*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.

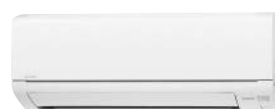


Compact Units

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

Indoor Unit: MSZ-DM25VA

Outdoor Unit: MUZ-DM25/35VA



Only 799mm width



Only 699mm width

MSZ-D SERIES



Indoor Unit

R410A



MSZ-DM25/35VA

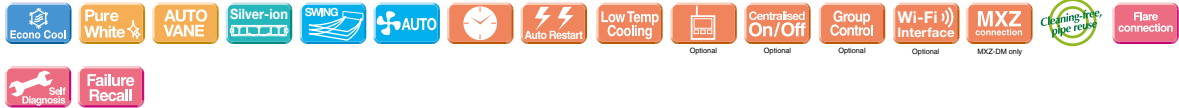
Outdoor Unit

R410A



MUZ-DM25/35VA

Remote Controller



| Type | | | | Inverter Heat Pump | |
|--|--|---------------------------------|---------------------|------------------------|------------------------|
| Indoor Unit | | | | MSZ-DM25VA | MSZ-DM35VA |
| Outdoor Unit | | | | MUZ-DM25VA | MUZ-DM35VA |
| Refrigerant | | | | R410A ⁽¹⁾ | |
| Power Source | | | | Indoor Power supply | |
| Supply Outdoor (V / Phase / Hz) | | | | 230V/Single/50Hz | |
| Cooling | Design load | | kW | 2.5 | 3.1 |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 149 | 190 |
| | SEER ⁽⁴⁾ | | | 5.8 | 5.7 |
| | Energy efficiency class | | | A ⁺ | A ⁺ |
| | Capacity | Rated | kW | 2.5 | 3.15 |
| | | Min-Max | kW | 1.3 - 3.0 | 1.4 - 3.5 |
| Total Input | | Rated | kW | 0.710 | 1.020 |
| Heating (Average Season) ⁽³⁾ | Design load | | kW | 1.9 (-10°C) | 2.4 (-10°C) |
| | Declared Capacity | at reference design temperature | kW | 1.9 (-10°C) | 2.4 (-10°C) |
| | | at bivalent temperature | kW | 1.9 (-10°C) | 2.4 (-10°C) |
| | | at operation limit temperature | kW | 1.9 (-10°C) | 2.4 (-10°C) |
| | | Back up heating capacity | kW | 0.0 (-10°C) | 0.0 (-10°C) |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 647 | 809 |
| | SCOP ⁽⁴⁾ | | | 4.1 | 4.1 |
| | Energy efficiency class | | | A ⁺ | A ⁺ |
| | Capacity | Rated | kW | 3.15 | 3.6 |
| | | Min-Max | kW | 0.9 - 3.5 | 1.1 - 4.1 |
| Total Input | | Rated | kW | 0.850 | 0.975 |
| Operating Current (Max) | | | A | 5.8 | 6.5 |
| Indoor Unit | Input | | Rated | kW | 0.020 |
| | Operating Current(Max) | | A | 0.3 | 0.3 |
| | Dimensions | | H*W*D | mm | 290-799-232 |
| | Weight | | kg | 9 | 9 |
| | Air Volume (SLo-Lo-Mid-Hi-SHi ⁽⁵⁾) | Cooling | m ³ /min | 3.8 - 5.5 - 7.3 - 9.5 | 3.8 - 5.7 - 7.8 - 10.9 |
| | | Heating | m ³ /min | 3.5 - 5.5 - 7.5 - 10.0 | 3.5 - 5.5 - 7.5 - 10.3 |
| | Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi ⁽⁵⁾) | Cooling | dB(A) | 22 - 30 - 37 - 43 | 22 - 31 - 38 - 45 |
| | | Heating | dB(A) | 23 - 30 - 37 - 43 | 23 - 30 - 37 - 44 |
| | Sound Level (PWL) | | Cooling | dB(A) | 57 |
| | Dimensions | | H*W*D | mm | 538-699-249 |
| Outdoor Unit | Weight | | kg | 24 | 25 |
| | Air Volume | Cooling | m ³ /min | 31.5 | 31.5 |
| | | Heating | m ³ /min | 31.5 | 31.5 |
| | Sound Level (SPL) | Cooling | dB(A) | 50 | 51 |
| | | Heating | dB(A) | 50 | 51 |
| | Sound Level (PWL) | | Cooling | dB(A) | 63 |
| | Operating Current (Max) | | A | 5.5 | 6.2 |
| | Breaker Size | | A | 10 | 10 |
| Ext. Piping | Diameter | Liquid/Gas | mm | 6.35/9.52 | 6.35/9.52 |
| | Max.Length | Out-In | m | 20 | 20 |
| | Max.Height | Out-In | m | 12 | 12 |
| Guaranteed Operating Range (Outdoor) | | Cooling | °C | -10 ~ +46 | -10 ~ +46 |
| | | Heating | °C | -10 ~ +24 | -10 ~ +24 |

⁽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 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 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⁾ 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 53-55 for heating (warmer season) specifications.

MSZ-H SERIES

Compact, high-performance indoor and outdoor units and advanced inverter technologies provide superior energy savings and comfort in all rooms.

R410A

MSZ-HJ25/35/50VA

MSZ-HJ60/71VA

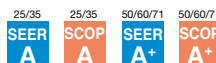


Stylish Design with Flat Panel Front

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



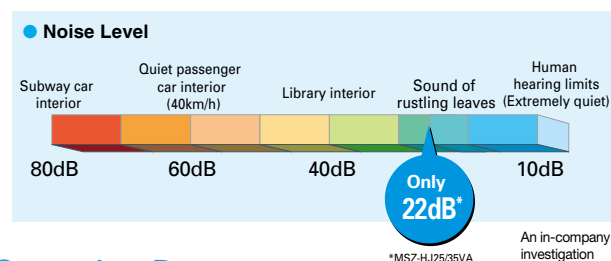
Advanced Inverter Control – Efficient Operation All the Time



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.



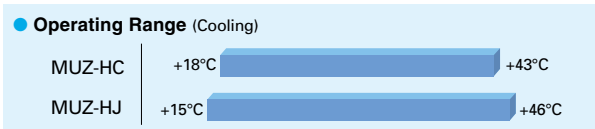
Long Piping Length

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.

Indoor Unit: MSZ-HJ25/35/50VA



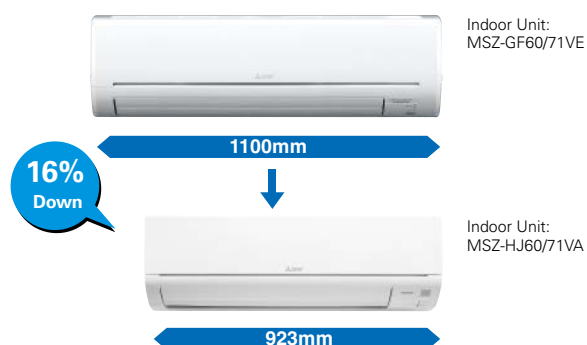
Only 799mm width

Outdoor Unit: MUZ-HJ25/35VA



Only 699mm width

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



MSZ-H SERIES



Indoor Unit

R410A



MSZ-HJ25/35/50VA



MSZ-HJ60/71VA

Outdoor Unit

R410A



MUZ-HJ25/35VA



MUZ-HJ50VA



MUZ-HJ60/71VA

Remote Controller



25 / 35 / 50
MXZ-DM only

| Type | | | Inverter Heat Pump | | | | | | | | | |
|--|---|---------------------------------|---|------------------------|------------------------|-------------------------|--------------------------|---------------------------|-------------|--|------------|--|
| Indoor Unit | | | MSZ-HJ25VA | | MSZ-HJ35VA | | MSZ-HJ50VA | | MSZ-HJ60VA | | MSZ-HJ71VA | |
| Outdoor Unit | | | MUZ-HJ25VA | | MUZ-HJ35VA | | MUZ-HJ50VA | | MUZ-HJ60VA | | MUZ-HJ71VA | |
| Refrigerant | | | R410A ⁽¹⁾ | | | | | | | | | |
| Power Supply | | | Indoor Power supply 230V/Single/50Hz | | | | | | | | | |
| Source Outdoor (V / Phase / Hz) | | | | | | | | | | | | |
| Cooling | 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⁾ | Energy efficiency class | | 5.1 | 5.1 | 6.0 | 6.0 | 5.6 | | | | |
| | | | | A | A | A+ | A+ | A+ | | | | |
| | Capacity | Rated | kW | 2.5 | 3.15 | 5.0 | 6.1 | 7.1 | | | | |
| | | Min-Max | kW | 1.3 - 3.0 | 1.4 - 3.5 | 1.3 - 5.0 | 1.7 - 7.1 | 1.8 - 7.1 | | | | |
| Heating (Average Season) ⁽³⁾ | 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) | | | | |
| | Declared Capacity | 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) | | | | |
| | | at bivalent temperature | kW | 1.9 (-10°C) | 2.4 (-10°C) | 3.8 (-10°C) | 4.6 (-10°C) | 5.4 (-10°C) | | | | |
| | | 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) | | | | |
| | 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 | A | A+ | A+ | A+ | | | | |
| | Capacity | Rated | kW | 3.15 | 3.6 | 5.4 | 6.8 | 8.1 | | | | |
| Min-Max | | kW | 0.9 - 3.5 | 1.1 - 4.1 | 1.4 - 6.5 | 1.5 - 8.4 | 1.5 - 8.5 | | | | | |
| Operating Current (Max) | Total Input | | Rated | kW | 0.870 | 0.995 | 1.480 | 1.970 | 2.440 | | | |
| | | | A | 5.8 | 6.5 | 9.8 | 12.5 | 12.5 | | | | |
| | Input | Rated | kW | 0.020 | 0.024 | 0.037 | 0.055 | 0.055 | | | | |
| Indoor Unit | Operating Current(Max) | | A | 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 | | | | |
| | Air Volume (SLo-Lo-Mid-Hi-SHi) ⁽⁵⁾ | 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 | | | | |
| | | 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) (SLo-Lo-Mid-Hi-SHi) ⁽⁵⁾ | Cooling | dB(A) | 22 - 30 - 37 - 43 | 22 - 31 - 38 - 45 | 28 - 36 - 40 - 45 | 31 - 38 - 44 - 50 | 33 - 38 - 44 - 50 | | | | |
| | | 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) | | 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 | | | | |
| Outdoor Unit | Air Volume | Cooling | m³/min | 31.5 | 31.5 | 36.3 | 47.9 | 49.3 | | | | |
| | | Heating | m³/min | 31.5 | 31.5 | 34.8 | 47.9 | 47.9 | | | | |
| | Sound Level (SPL) | Cooling | dB(A) | 50 | 50 | 50 | 55 | 55 | | | | |
| | | Heating | dB(A) | 50 | 50 | 51 | 55 | 55 | | | | |
| | Sound Level (PWL) | Cooling | dB(A) | 63 | 64 | 64 | 65 | 66 | | | | |
| | | Heating | dB(A) | 63 | 64 | 64 | 65 | 66 | | | | |
| | Operating Current (Max) | | A | 5.5 | 6.2 | 9.4 | 12.0 | 12.0 | | | | |
| Breaker Size | | A | 10 | 10 | 12 | 16 | 16 | | | | | |
| Ext. Piping | Diameter | Liquid/Gas | mm | 6.35/9.52 | 6.35/9.52 | 6.35/12.7 | 6.35/15.88 | 9.52/15.88 | | | | |
| | Max.Length | Out-In | m | 20 | 20 | 20 | 30 | 30 | | | | |
| | Max.Height | Out-In | m | 12 | 12 | 12 | 15 | 15 | | | | |
| Guaranteed Operating Range (Outdoor) | Cooling | °C | +15 ~ +46 | +15 ~ +46 | +15 ~ +46 | +15 ~ +46 | +15 ~ +46 | | | | | |
| | Heating | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | | | | | |

(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 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 53-55 for heating (warmer season) specifications.

MFZ SERIES

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

MFZ-KT25/35/50/60VG

R32

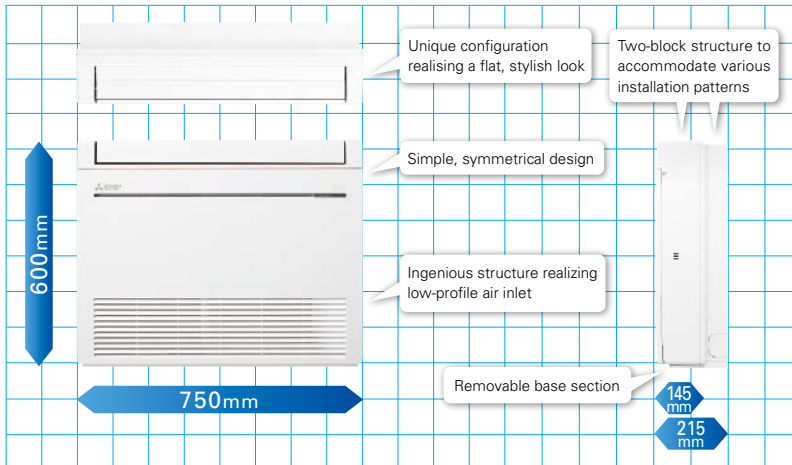


GOOD DESIGN
AWARD 2014

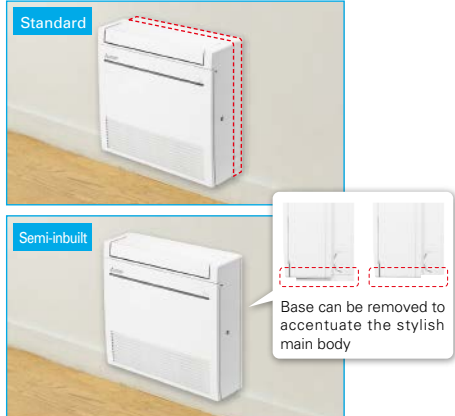


Simple, Flat Design

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



Images of installed unit



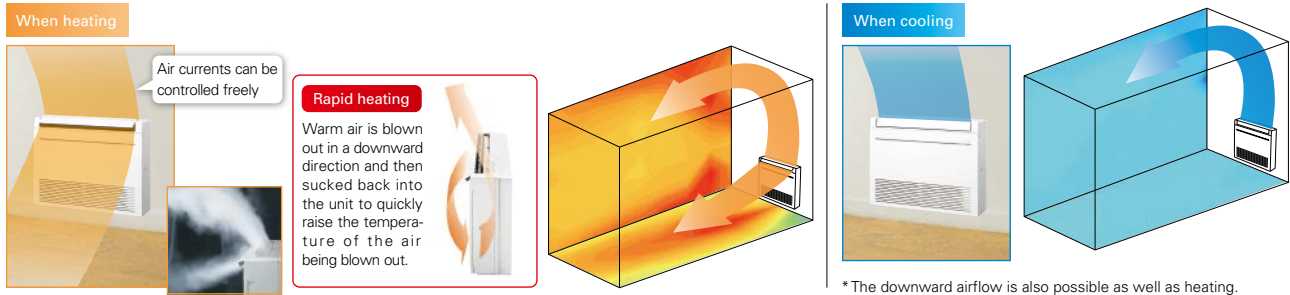
New Line-up

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 | ✓ | ✓ | ✓ | |
| MFZ-KT | ✓ | ✓ | ✓ | ✓ |

Multi-flow Vane

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



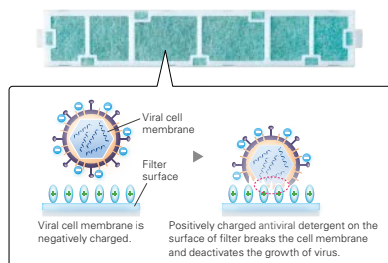
Weekly Timer (Introduced in response to market demand)

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.

V Blocking Filter



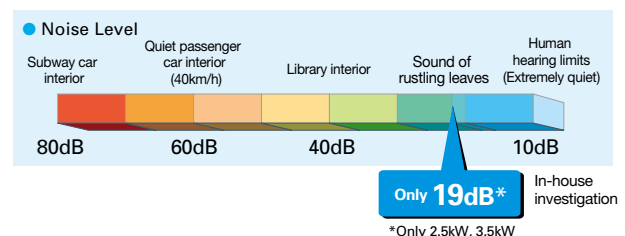
V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



Quiet Operation

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

* Single connection only.



MFZ-KT SERIES



Indoor Unit

R32



MFZ-KT25/35/50/60VG

Outdoor Unit

R32



SUZ-M25/35VA



SUZ-M50VA



SUZ-M60VA

Remote Controller



Enclosed in MFZ-KT



*optional



*optional



*optional



| Type | | | Inverter Heat Pump | | | |
|----------------------------|---|---------------------------------|----------------------|-----------------------------|-------------------------------|-------------------------------|
| Indoor Unit | | | MFZ-KT25VG | MFZ-KT35VG | MFZ-KT50VG | MFZ-KT60VG |
| Outdoor Unit | | | SUZ-M25VA | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA |
| Refrigerant | | | R32 ^(*) | R32 ^(*) | R32 ^(*) | R32 ^(*) |
| Power Supply | Source | | Outdoor power supply | | | |
| | Outdoor(V/Phase/Hz) | | 230 / Single / 50 | | | |
| Cooling | Design load | kW | 2.5 | 3.5 | 5.0 | 6.1 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 134 | 185 | 257 | 343 |
| | SEER ^{(4), (5)} | | 6.5 | 6.6 | 6.8 | 6.2 |
| | Capacity | Energy efficiency class | A++ | | | |
| | | Rated | 2.5 | 3.5 | 5.0 | 6.1 |
| | Total Input | kW | 1.6 - 3.2 | 0.9 - 3.9 | 1.2 - 5.6 | 1.7 - 6.3 |
| Heating (Average Season) | Design load | kW | 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) |
| | | at bivalent temperature | kW | 2.0 (-7°C) | 2.3 (-7°C) | 4.1 (-7°C) |
| | | at operation limit temperature | kW | 2.0 (-10°C) | 2.3 (-10°C) | 3.5 (-10°C) |
| | Back up heating capacity | kW | 0.2 | 0.3 | 0.8 | 0.5 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 732 | 825 | 1423 | 1568 |
| | SCOP ^{(4), (5)} | | 4.2 | 4.4 | 4.2 | 4.1 |
| | Capacity | Energy efficiency class | A+ | | | |
| | | Rated | 3.4 | 4.3 | 6.0 | 7.0 |
| | Total Input | kW | 1.3 - 4.2 | 1.1 - 5.0 | 1.5 - 7.2 | 1.6 - 8.0 |
| Operating Current (Max) | | | | | | |
| Indoor Unit | Input | Rated | kW | 0.020 / 0.024 | 0.037 / 0.052 | 0.063 / 0.059 |
| | Operating Current(Max) | | A | 0.20 | 0.45 | 0.55 |
| | Dimensions | H*W*D | mm | 600-750-215 | 600-750-215 | 600-750-215 |
| | Weight | | kg | 14.5 | 14.5 | 15.0 |
| | Air Volume (SLo-Lo-Mid-Hi-SHi ⁽³⁾) | Cooling | m³/min | 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 |
| | | Heating | m³/min | 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) (SLo-Lo-Mid-Hi-SHi ⁽³⁾) | Cooling | dB(A) | 19 - 24 - 31 - 37 - 41 | 28 - 32 - 37 - 42 - 48 | 28 - 36 - 40 - 46 - 53 |
| | | Heating | dB(A) | 19 - 23 - 30 - 37 - 44 | 29 - 35 - 40 - 44 - 49 | 29 - 35 - 41 - 47 - 51 |
| | Sound Level (PWL) | Cooling | dB(A) | 54 | 54 | 60 |
| | Sound Level (PWL) | Heating | dB(A) | 54 | 54 | 65 |
| Outdoor Unit | Dimensions | H*W*D | mm | 550-800-285 | 550-800-285 | 714-800-285 |
| | Weight | | kg | 30 | 35 | 41 |
| | Air Volume | Cooling | m³/min | 36.3 | 34.3 | 45.8 |
| | | Heating | m³/min | 34.6 | 32.7 | 43.7 |
| | Sound Level (SPL) | Cooling | dB(A) | 45 | 48 | 48 |
| | | Heating | dB(A) | 46 | 48 | 49 |
| | Sound Level (PWL) | Cooling | dB(A) | 59 | 59 | 64 |
| | | Heating | dB(A) | 59 | 59 | 65 |
| | Operating Current(Max) | | A | 7 | 9 | 14 |
| | Breaker Size | | A | 10 | 10 | 16 |
| Ext. Piping | Diameter | Liquid/Gas | mm | 6.35 / 9.52 | 6.35 / 9.52 | 6.35 / 12.7 |
| | Max.Length | Out-In | m | 20 | 20 | 30 |
| | Max.Height | Out-In | m | 12 | 12 | 30 |
| Guaranteed Operating Range | | | | | | |
| [Outdoor] | | | Cooling | °C | -10 ~ +46 | -15 ~ +46 |
| | | | Heating | °C | -10 ~ +24 | -10 ~ +24 |

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

MLZ SERIES

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

R32
R410A
Multi

MLZ-KP25/35/50VF



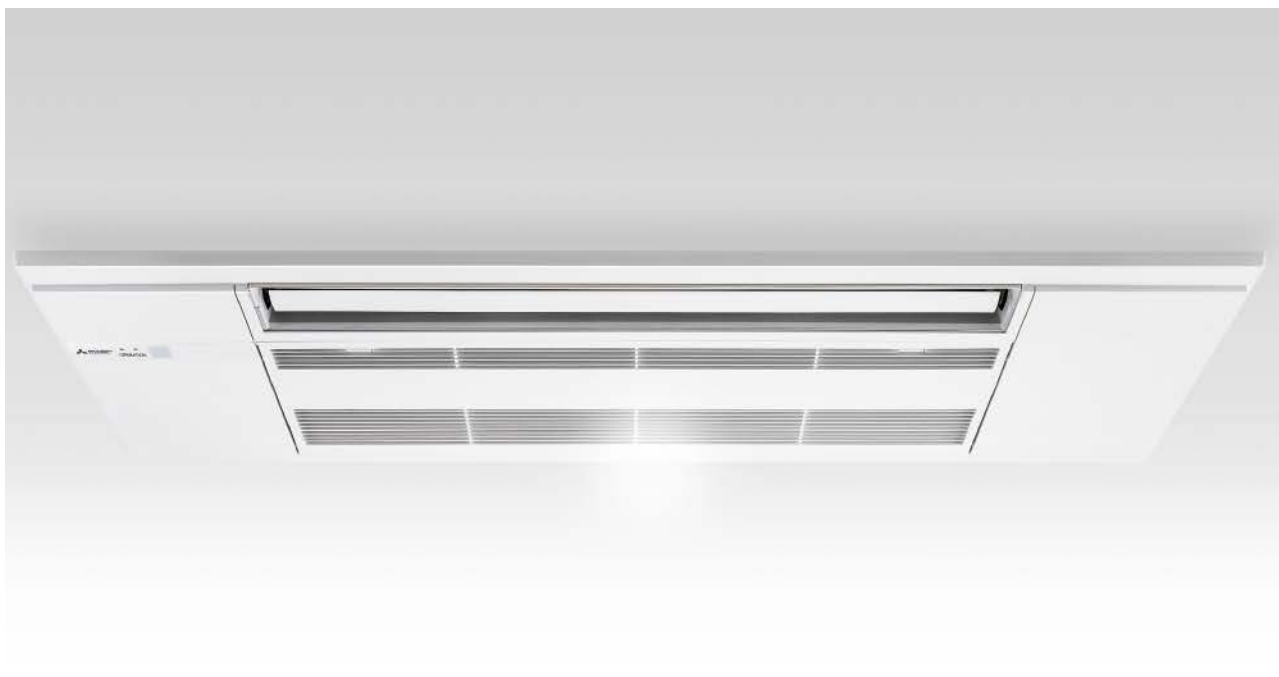

GOOD DESIGN
AWARD 2017


reddot award 2018
winner



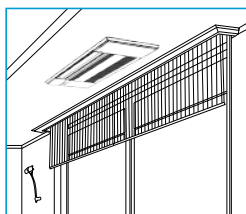
Slim Design

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.



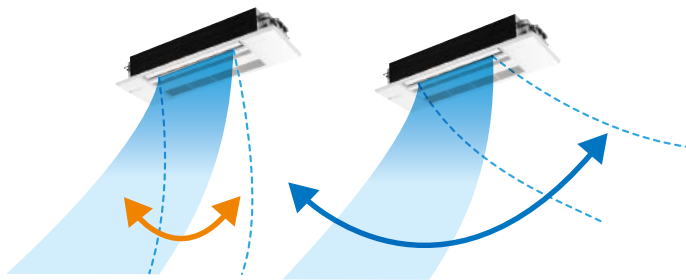
Set Airflow According to Ceiling Height

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.



Up and Down

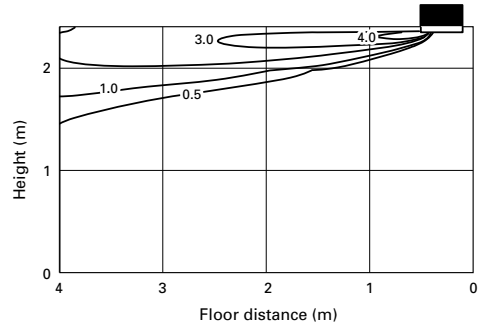
Left and Right

*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.

[Horizontal Airflow]
Model name: MLZ-KP35VF
Ceiling height: 2.4m
Model: Cooling



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. |
|-------------------------|--|---------|---------|---------|---------|--|---------|
| 6:00 | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C |
| 8:00 | Automatically changes to high-power operation at wake-up time | | | | | | |
| 10:00 | OFF | OFF | OFF | OFF | OFF | ON 18°C | ON 18°C |
| 12:00 | Automatically turned off during work hours | | | | | Midday is warmer, so the temperature is set lower | |
| 14:00 | | | | | | | |
| 16:00 | | | | | | | |
| 18:00 | ON 22°C | ON 22°C | ON 22°C | ON 22°C | ON 22°C | ON 22°C | ON 22°C |
| 20:00 | Automatically turns on, synchronized with arrival at home | | | | | Automatically raises temperature setting to match time when outside-air temperature is low | |
| 22:00 | | | | | | | |
| (during sleeping hours) | ON 18°C | ON 18°C | ON 18°C | ON 18°C | ON 18°C | ON 10°C | ON 10°C |
| | Automatically lowers temperature at bedtime for energy-saving operation at night | | | | | | |

Settings

Pattern Settings: Input up to four settings for each day

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

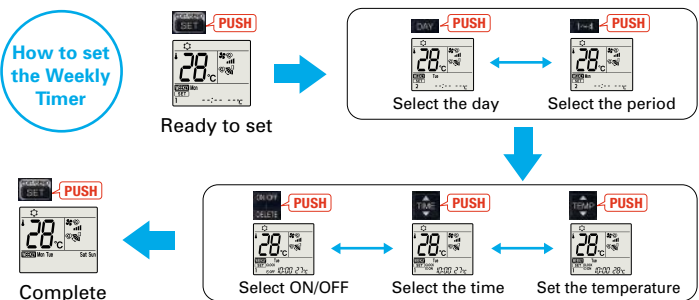
Easy set-up using dedicated buttons



The remote controller is equipped with buttons that are used exclusively for setting the Weekly Timer. Setting operation patterns is easy and quick.



How to set the Weekly Timer

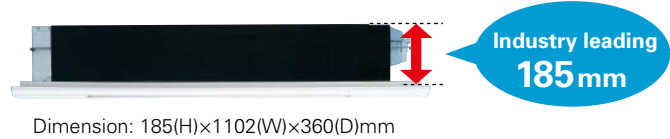


- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired 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

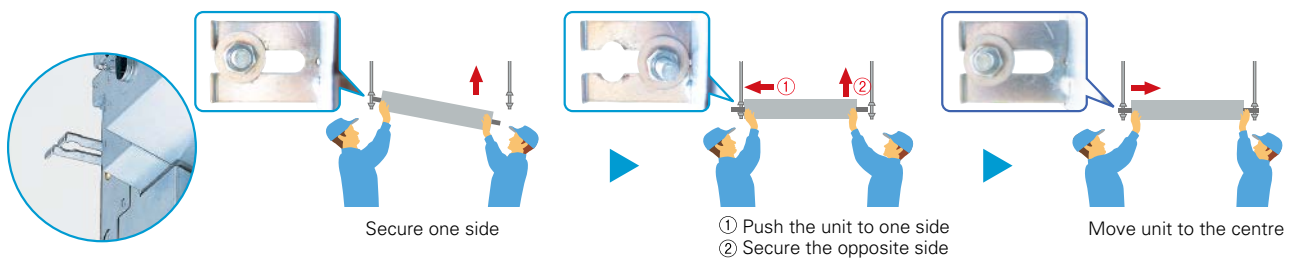
Industry leading Slim Body

Innovative size which enables to fold the refrigerant piping above the unit.

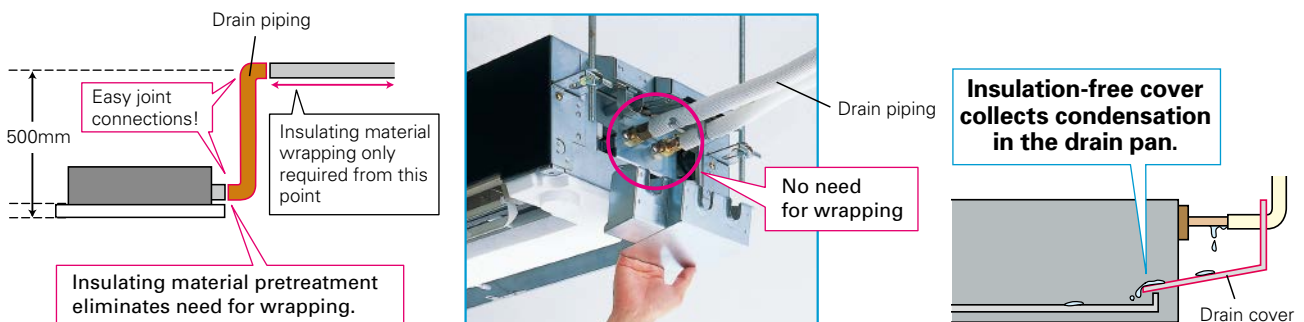


Temporary hanging hook

Work efficiency has improved during installation.

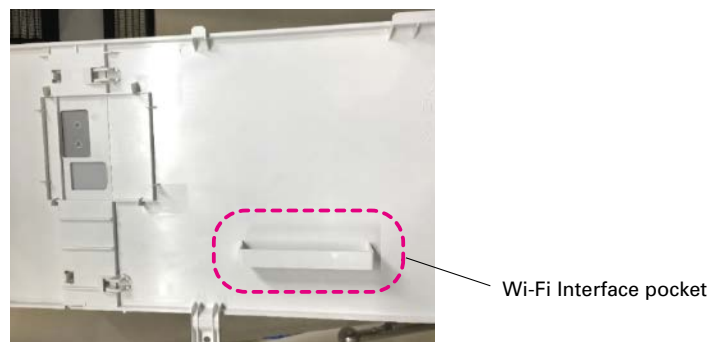


Drain Piping Supporters + Drain Cover



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



Indoor Unit



MLZ-KP25/35/50VF



Panel

MLP-444W

Outdoor Unit



SUZ-M25/35VA



SUZ-M50VA

Remote Controller



Enclosed in MLZ-KP



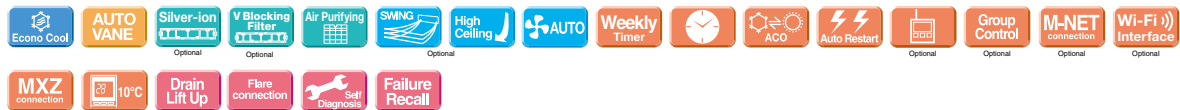
*optional



*optional



*optional



| Type | Inverter Heat Pump | | | |
|-------------------------|---|--------|-----------------|------------------|
| Indoor Unit | MLZ-KP25VF | | MLZ-KP35VF | MLZ-KP50VF |
| Outdoor Unit | SUZ-M25VA | | SUZ-M35VA | SUZ-M50VA |
| Refrigerant | R32 ^(*) | | | |
| Power Supply | Outdoor Power supply | | | |
| | 230V / Single / 50Hz | | | |
| Cooling | Design load | kW | 2.5 | 5.0 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 141 | 260 |
| | SEER ^(*) | | 6.2 | 6.7 |
| | Energy efficiency class | | A++ | A++ |
| | Capacity | kW | 2.5 | 5.0 |
| Heating | Capacity | kW | 1.4 - 3.2 | 1.7 - 5.6 |
| | Total Input | kW | 0.59 | 1.38 |
| | Design load | kW | 2.2 | 4.3 |
| | Declared Capacity | kW | 2.0 (-10°C) | 3.8 (-10°C) |
| | Back up heating capacity | kW | 0.2 | 0.5 |
| Operating Current (Max) | Annual electricity consumption ⁽²⁾ | kWh/a | 697 | 1397 |
| | SCOP ^(*) | | 4.4 | 4.3 |
| | Energy efficiency class | | A+ | A+ |
| | Capacity | kW | 3.2 | 6.0 |
| | Total Input | kW | 1.4 - 4.2 | 1.7 - 7.2 |
| Indoor Unit | Input | kW | 0.04 | 0.04 |
| | Operating Current(Max) | A | 0.40 | 0.40 |
| | Dimensions | mm | 185-1102-360 | 185-1102-360 |
| | Weight | kg | 15.5 | 15.5 |
| | Air Volume | m³/min | 6.0-7.2-8.0-8.8 | 6.0-8.3-9.8-11.4 |
| Panel | Sound Level (SPL) | dB(A) | 27-31-34-38 | 29-36-41-47 |
| | Sound Level (PWL) | dB(A) | 26-27-34-37 | 26-37-42-48 |
| | Dimensions | mm | 24-1200-424 | 24-1200-424 |
| | Weight | kg | 3.5 | 3.5 |
| | Dimensions | mm | 550-800-285 | 550-800-285 |
| Outdoor Unit | Weight | kg | 30 | 41 |
| | Air Volume | m³/min | 36.3 | 45.8 |
| | Sound Level (SPL) | dB(A) | 45 | 48 |
| | Sound Level (PWL) | dB(A) | 46 | 49 |
| | Operating Current (Max) | A | 6.8 | 13.5 |
| Ext. Piping | Breaker Size | A | 10 | 20 |
| | Diameter | mm | 6.35/9.52 | 6.35/12.7 |
| | Max.Length | m | 20 | 30 |
| | Max.Height | m | 12 | 30 |
| | Guaranteed Operating Range (Outdoor) | °C | -10~+46 | -15~+46 |

(*)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 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) S.H: 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) No206/2012.

Specification on Warmer/Colder Condition

| Type | | | Inverter Heat Pump | | |
|----------------------------|---|---------------------------------|--------------------|--------------|--------------|
| Indoor Unit | | | MSZ-RW25VG | MSZ-RW35VG | MSZ-RW50VG |
| Outdoor Unit | | | MUZ-RW25VGHZ | MUZ-RW35VGHZ | MUZ-RW50VGHZ |
| Refrigerant | | | R32 ^(*) | | |
| Cooling | Design load | kW | 2.5 | 3.5 | 5.0 |
| | Annual electricity consumption ^(*) | kWh/a | 78 | 130 | 230 |
| | SEER | | 11.2 | 9.4 | 7.6 |
| | Energy efficiency class | | A+++ | A+++ | A++ |
| Heating (Warmer Season) | Design load | kW | 1.8 | 2.2 | 3.3 |
| | Declared Capacity | at reference design temperature | kW | 1.8 | 2.2 |
| | | at bivalent temperature | kW | 1.8 | 2.2 |
| | | at operation limit temperature | kW | 2.6 | 2.6 |
| | Back up heating capacity | kW | 0.0 | 0.0 | 0.0 |
| | Annual electricity consumption ^(*) | kWh/a | 372 | 469 | 715 |
| | SCOP | | 6.7 | 6.5 | 6.4 |
| Heating (Colder Season) | Design load | kW | 4.7 | 5.9 | 8.8 |
| | Declared Capacity | at reference design temperature | kW | 3.7 | 4.0 |
| | | at bivalent temperature | kW | 3.2 | 4.0 |
| | | at operation limit temperature | kW | 2.6 | 2.6 |
| | Back up heating capacity | kW | 1.0 | 1.9 | 3.2 |
| | Annual electricity consumption ^(*) | kWh/a | 2407 | 3083 | 5157 |
| | SCOP | | 4.1 | 4.0 | 3.5 |
| | | | A+ | A+ | A |

| Type | | | Inverter Heat Pump | | | | | |
|----------------------------|---|---------------------------------|--------------------|---------------|-------------|---------------|-------------|--------------|
| Indoor Unit | | | MSZ-LN25VG2 | | MSZ-LN35VG2 | | MSZ-LN50VG2 | |
| Outdoor Unit | | | MUZ-LN25VG2 | MUZ-LN25VGHZ2 | MUZ-LN35VG2 | MUZ-LN35VGHZ2 | MUZ-LN50VG2 | MUZ-LN50VGHZ |
| Refrigerant | | | R32 ^(*) | | | | | |
| Cooling | Design load | kW | 2.5 | 2.5 | 3.5 | 3.5 | 5 | 5.0 |
| | Annual electricity consumption ^(*) | kWh/a | 83 | 83 | 129 | 130 | 205 | 230 |
| | SEER | | 10.5 | 10.5 | 9.5 | 9.4 | 8.5 | 7.6 |
| | Energy efficiency class | | A+++ | A+++ | A+++ | A+++ | A+++ | A++ |
| Heating (Warmer Season) | 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) |
| | Declared 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) |
| | | at bivalent temperature | kW | 1.7 (2°C) | 1.8 (2°C) | 2.0 (2°C) | 2.2 (2°C) | 2.5 (2°C) |
| | | at operation limit temperature | kW | 2.5 (-15°C) | 2.3 (-15°C) | 3.2 (-15°C) | 3.1 (-25°C) | 4.2 (-15°C) |
| | 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) |
| | Annual electricity consumption ^(*) | kWh/a | 369 | 382 | 431 | 467 | 602 | 779 |
| | SCOP | | 6.4 | 6.6 | 6.5 | 6.5 | 5.8 | 5.9 |
| Heating (Colder Season) | Design load | kW | — | 4.7 (-22°C) | — | 5.9 (-22°C) | — | 8.8 (-22°C) |
| | Declared Capacity | at reference design temperature | kW | — | 2.6 (-22°C) | — | 3.4 (-22°C) | — |
| | | at bivalent temperature | kW | — | 3.2 (-10°C) | — | 4.0 (-10°C) | — |
| | | at operation limit temperature | kW | — | 2.3 (-25°C) | — | 3.1 (-25°C) | — |
| | Back up heating capacity | kW | — | 2.1 (-22°C) | — | 2.5 (-22°C) | — | 3.7 (-22°C) |
| | Annual electricity consumption ^(*) | kWh/a | — | 2425 | — | 3075 | — | 5340 |
| | SCOP | | — | 4.0 | — | 4.0 | — | 3.4 |
| | | | — | A+ | — | A+ | — | A |

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

| Type | | | Inverter Heat Pump | | | | | | | | | |
|----------------------------|---|---------------------------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Indoor Unit | | | MSZ-AP15VG | MSZ-AP20VG | MSZ-AP25VG | MSZ-AP35VG | MSZ-AP42VG | MSZ-AP50VG | MSZ-AP60VG | MSZ-AP71VG | MSZ-AP71VGH | MSZ-AP71VGH |
| Outdoor Unit | | | MUZ-AP15VG | MUZ-AP20VG | MUZ-AP25VGH | MUZ-AP35VGH | MUZ-AP42VGH | MUZ-AP50VGH | MUZ-AP60VGH | MUZ-AP71VGH | MUZ-AP71VGH | MUZ-AP71VGH |
| Refrigerant | | | R32 ^(*) | | | | | | | | | |
| Cooling | Design load | kW | 1.5 | 2.0 | 2.5 | 3.5 | 3.5 | 4.2 | 4.2 | 5.0 | 5.0 | 6.1 |
| | Annual electricity consumption ^(*) | kWh/a | 72 | 81 | 116 | 116 | 171 | 196 | 196 | 246 | 246 | 288 |
| | SEER | | 7.2 | 8.6 | 7.6 | 7.6 | 7.2 | 7.5 | 7.5 | 7.2 | 7.2 | 7.4 |
| | Energy efficiency class | | A++ | A+++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ |
| Heating (Warmer Season) | 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) | 2.5 (2°C) |
| | Declared Capacity | at reference design temperature | kW | 0.9 (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) | 2.5 (2°C) |
| | | at bivalent temperature | kW | 0.9 (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) | 2.5 (2°C) |
| | | at operation limit temperature | kW | 1.6 (-15°C) | 2.2 (-15°C) | 2.0 (-15°C) | 1.6 (-20°C) | 1.6 (-20°C) | 3.4 (-15°C) | 2.2 (-20°C) | 2.3 (-20°C) | 3.7 (-15°C) |
| | 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) |
| | Annual electricity consumption ^(*) | kWh/a | 265 | 350 | 337 | 337 | 923 / 418 | 417 | 507 | 507 | 563 | 627 |
| | SCOP | | 4.7 | 5.2 | 5.4 | 5.4 | 5.4 | 5.8 | 5.8 | 5.7 | 5.7 | 5.5 |
| | | | A++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |

| Type | | | Inverter Heat Pump | | | | | |
|----------------------------|---|---------------------------------|--------------------|-------------|-------------|-------------|-------------|-------------|
| Indoor Unit | | | MSZ-EF25VG | | MSZ-EF35VG | | MSZ-EF42VG | MSZ-EF50VG |
| Outdoor Unit | | | MUZ-EF25VG | MUZ-EF25VGH | MUZ-EF35VG | MUZ-EF35VGH | MUZ-EF42VG | MUZ-EF50VG |
| Refrigerant | | | R32 ^(*) | | | | | |
| Cooling | Design load | kW | 2.5 | 2.5 | 3.5 | 3.5 | 4.2 | 5.0 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 96 | 96 | 139 | 139 | 186 | 233 |
| | SEER | | 9.1 | 9.1 | 8.8 | 8.8 | 7.9 | 7.5 |
| Energy efficiency class | | | A+++ | A+++ | A+++ | A+++ | A++ | A++ |
| Heating (Warmer Season) | 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) |
| | Declared Capacity | at reference design temperature | kW | 1.3 (2°C) | 1.6 (2°C) | 1.6 (2°C) | 2.1 (2°C) | 2.3 (2°C) |
| | | at bivalent temperature | kW | 1.3 (2°C) | 1.6 (2°C) | 1.6 (2°C) | 2.1 (2°C) | 2.3 (2°C) |
| | | at operation limit temperature | kW | 2.0 (-15°C) | 2.0 (-15°C) | 2.4 (-15°C) | 2.4 (-15°C) | 3.5 (-15°C) |
| | 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) |
| | 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+++ |

| Type | | | Inverter Heat Pump | | | |
|----------------------------|---|---------------------------------|--------------------|-------------|-------------|-------------|
| Indoor Unit | | | MSZ-BT20VG | MSZ-BT25VG | MSZ-BT35VG | MSZ-BT50VG |
| Outdoor Unit | | | MUZ-BT20VG | MUZ-BT25VG | MUZ-BT35VG | MUZ-BT50VG |
| Refrigerant | | | R32 ^(*) | | | |
| Cooling | Design load | kW | 2.0 | 2.5 | 3.5 | 5.0 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 86 | 108 | 180 | 265 |
| | SEER | | 8.1 | 8.1 | 6.8 | 6.6 |
| Energy efficiency class | | | A++ | A++ | A++ | A++ |
| Heating (Warmer Season) | Design load | kW | 0.9 (2°C) | 1.1 (2°C) | 1.3 (2°C) | 2.1 (2°C) |
| | Declared Capacity | at reference design temperature | kW | 0.9 (2°C) | 1.1 (2°C) | 1.3 (2°C) |
| | | at bivalent temperature | kW | 0.9 (2°C) | 1.1 (2°C) | 1.3 (2°C) |
| | | at operation limit temperature | kW | 1.3 (-15°C) | 1.7 (-15°C) | 2.1 (-15°C) |
| | Back up heating capacity | kW | 0.0 (2°C) | 0.0 (2°C) | 0.0 (2°C) | 0.0 (2°C) |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 234 | 268 | 304 | 543 |
| | SCOP ^(*) | | 5.3 | 5.7 | 5.9 | 5.4 |
| Energy efficiency class | | | A+++ | A+++ | A+++ | A+++ |

| Type | | | Inverter Heat Pump | | | | | |
|----------------------------|---|---------------------------------|--------------------|-------------|-------------|-------------|-------------|-------------|
| Indoor Unit | | | 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 |
| Refrigerant | | | R32 ^(*) | | | | | |
| Cooling | 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 | | 6.2 | 6.2 | 6.5 | 6.5 | 7.2 | 7.0 |
| Energy efficiency class | | | A++ | A++ | A++ | A++ | A++ | A++ |
| Heating (Warmer Season) | 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) |
| | Declared Capacity | 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) |
| | | at bivalent temperature | kW | 1.1 (2°C) | 1.3 (2°C) | 1.6 (2°C) | 2.1 (2°C) | 2.5 (2°C) |
| | | 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) |
| | 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) |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 289 | 344 | 427 | 558 | 640 | 802 |
| | SCOP | | 5.3 | 5.2 | 5.2 | 5.2 | 5.4 | 5.2 |
| Energy efficiency class | | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |

| Type | | | Inverter Heat Pump | | |
|----------------------------|---|---------------------------------|--------------------|-------------|-------------|
| Indoor Unit | | | MSZ-DW25VF | MSZ-DW35VF | MSZ-DW50VF |
| Outdoor Unit | | | MUZ-DW25VF | MUZ-DW35VF | MUZ-DW50VF |
| Refrigerant | | | R32 ^(*) | | |
| Cooling | Design load | kW | 2.5 | 3.4 | 5.0 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 135 | 184 | 261 |
| | SEER | | 6.2 | 6.2 | 6.5 |
| Energy efficiency class | | | A++ | A++ | A++ |
| Heating (Warmer Season) | Design load | kW | 1.1 (2°C) | 1.3 (2°C) | 2.1 (2°C) |
| | Declared Capacity | at reference design temperature | kW | 1.1 (2°C) | 1.3 (2°C) |
| | | at bivalent temperature | kW | 1.1 (2°C) | 1.3 (2°C) |
| | | at operation limit temperature | kW | 1.9 (-10°C) | 2.4 (-10°C) |
| | Back up heating capacity | kW | 0.0 (2°C) | 0.0 (2°C) | 0.0 (2°C) |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 287 | 351 | 508 |
| | SCOP | | 5.3 | 5.1 | 5.3 |
| Energy efficiency class | | | A+++ | A+++ | A+++ |

| Type | | | Inverter Heat Pump | | | | | |
|----------------------------|---|---------------------------------|----------------------|--------------|-------------|--------------|-------------|--------------|
| Indoor Unit | | | MSZ-FH25VE2 | | MSZ-FH35VE2 | | MSZ-FH50VE2 | |
| Outdoor Unit | | | MUZ-FH25VE | MUZ-FH25VEHZ | MUZ-FH35VE | MUZ-FH35VEHZ | MUZ-FH50VE | MUZ-FH50VEHZ |
| Refrigerant | | | R410A ^(*) | | | | | |
| Cooling | Design load | kW | 2.5 | 2.5 | 3.5 | 3.5 | 5.0 | 5.0 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 96 | 96 | 138 | 138 | 244 | 244 |
| | SEER | | 9.1 | 9.1 | 8.9 | 8.9 | 7.2 | 7.2 |
| Energy efficiency class | | | A+++ | A+++ | A+++ | A+++ | A++ | A++ |
| Heating (Warmer Season) | 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) |
| | Declared 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) |
| | | at bivalent temperature | kW | 1.7 (2°C) | 1.8 (2°C) | 2.0 (2°C) | 2.2 (2°C) | 2.5 (2°C) |
| | | 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) |
| | 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) |
| | Annual electricity 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+++ |

(*) 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) 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 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.

Specification on Warmer/Colder Condition

| Type | | | Inverter Heat Pump | | | | | | | |
|-------------------------|---|---------------------------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Indoor Unit | | | MSZ-SF25VE3 | | MSZ-SF35VE3 | | MSZ-SF42VE3 | | MSZ-SF50VE3 | |
| Outdoor Unit | | | MUZ-SF25VE | MUZ-SF25VEH | MUZ-SF35VE | MUZ-SF35VEH | MUZ-SF42VE | MUZ-SF42VEH | MUZ-SF50VE | MUZ-SF50VEH |
| Refrigerant | | | R410A ^(*) | | | | | | | |
| Cooling | Design load | kW | 2.5 | 2.5 | 3.5 | 3.5 | 4.2 | 4.2 | 5.0 | 5.0 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 116 | 116 | 171 | 171 | 196 | 196 | 246 | 246 |
| | 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++ |
| Heating (Warmer Season) | 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) |
| | Declared Capacity | 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) |
| | | 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) | 2.3 (2°C) |
| | | 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) |
| | 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+++ |

| Type | | | Inverter Heat Pump | | | |
|-------------------------|---|---------------------------------|----------------------|-------------|-------------|-------------|
| Indoor Unit | | | MSZ-GF60VE2 | MSZ-GF71VE2 | MSZ-WN25VA | MSZ-WN35VA |
| Outdoor Unit | | | MUZ-GF60VE | MUZ-GF71VE | MUZ-WN25VA | MUZ-WN35VA |
| Refrigerant | | | R410A ^(*) | | | |
| Cooling | Design load | kW | 6.1 | 7.1 | 2.5 | 3.1 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 311 | 364 | 141 | 173 |
| | SEER | | 6.8 | 6.8 | 6.2 | 6.2 |
| Energy efficiency class | | | A++ | A++ | A++ | A++ |
| Heating (Warmer Season) | Design load | kW | 2.5 (2°C) | 3.7 (2°C) | 1.1 (2°C) | 1.3 (2°C) |
| | Declared Capacity | at reference design temperature | kW | 2.5 (2°C) | 3.7 (2°C) | 1.1 (2°C) |
| | | at bivalent temperature | kW | 2.5 (2°C) | 3.7 (2°C) | 1.1 (2°C) |
| | | at operation limit temperature | kW | 3.7 (-15°C) | 5.4 (-15°C) | 1.6 (-15°C) |
| | Back up heating capacity | kW | 0.0 (2°C) | 0.0 (2°C) | 0.0 (2°C) | 0.0 (2°C) |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 664 | 963 | 304 | 362 |
| | SCOP ⁽⁴⁾ | | 5.3 | 5.4 | 5.0 | 5.0 |
| Energy efficiency class | | | A+++ | A+++ | A++ | A++ |

| Type | | | Inverter Heat Pump | | | | | | |
|-------------------------|---|---------------------------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Indoor Unit | | | MSZ-HJ25VA | MSZ-HJ35VA | MSZ-HJ50VA | MSZ-HJ60VA | MSZ-HJ71VA | MSZ-DM25VA | MSZ-DM35VA |
| Outdoor Unit | | | MUZ-HJ25VA | MUZ-HJ35VA | MUZ-HJ50VA | MUZ-HJ60VA | MUZ-HJ71VA | MUZ-DM25VA | MUZ-DM35VA |
| Refrigerant | | | R410A ^(*) | | | | | | |
| Cooling | Design load | kW | 2.5 | 3.1 | 5.0 | 6.1 | 7.1 | 2.5 | 3.1 |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 171 | 212 | 292 | 354 | 441 | 149 | 190 |
| | SEER | | 5.1 | 5.1 | 6.0 | 6.0 | 5.6 | 5.8 | 5.7 |
| Energy efficiency class | | | A | A | A+ | A+ | A+ | A+ | A+ |
| Heating (Warmer Season) | 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) |
| | Declared Capacity | 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) |
| | | 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) |
| | | 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) |
| | 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 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+ | A+ | A+++ | A+++ | A++ | A++ | A++ |

(*) 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) 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 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.

S

SERIES



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.

R32
R410A



Units without Remote Controller

SLZ-M15FA2
(Multi split series connection only)
SLZ-M25FA2
SLZ-M35FA2
SLZ-M50FA2
SLZ-M60FA2

Panel

| Panel | With Signal Receiver | With 3D i-see Sensor | With Wireless Remote Controller |
|-------------|----------------------|----------------------|---------------------------------|
| SLP-2FA | | | |
| SLP-2FAL | ✓ | | |
| SLP-2FAE | | ✓ | |
| SLP-2FALE | ✓ | ✓ | |
| SLP-2FALM2 | ✓ | | ✓ |
| SLP-2FALME2 | ✓ | ✓ | ✓ |

R32
R410A



Units without Remote Controller

SEZ-M25DA2
SEZ-M35DA2
SEZ-M50DA2
SEZ-M60DA2
SEZ-M71DA2

Units with Wireless Remote Controller

SEZ-M25DAL2
SEZ-M35DAL2
SEZ-M50DAL2
SEZ-M60DAL2
SEZ-M71DAL2

SELECT OUTDOOR UNIT

There is one outdoor unit for respective indoor units.

R32



SUZ-M25/35VA

R32



SUZ-M50VA

R32



SUZ-M60/71VA

R410A



SUZ-KA25/35VA6

R410A



SUZ-KA50/60/71VA6

* To confirm compatibility with the MXZ Series multi-type system, refer to the MXZ Series page.

SLZ SERIES

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

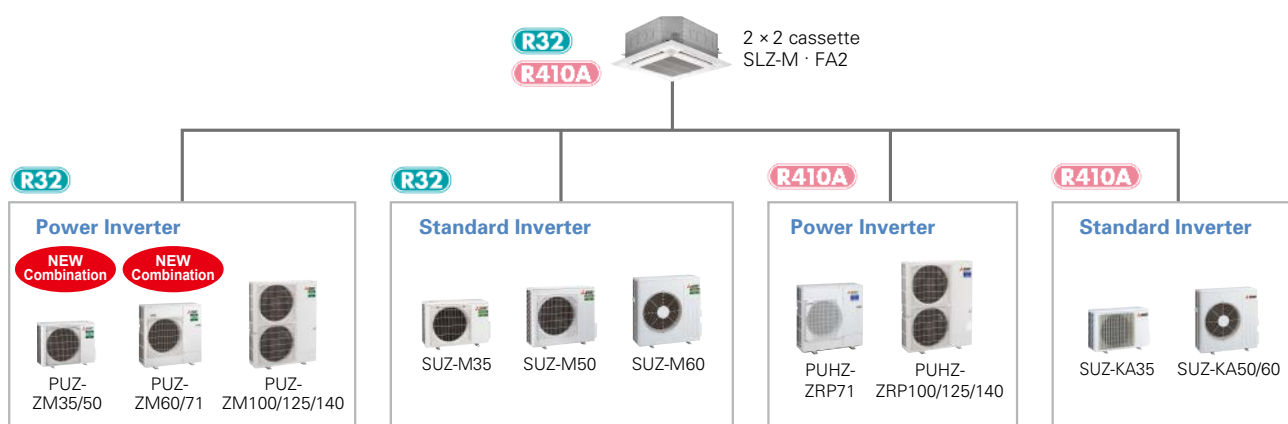
SLZ-M15/25/35/50/60FA2

GOOD DESIGN
AWARD 2015



2x2 Cassette Line-up

The SLZ series was previously only able to be connected to standard inverters and some power inverters. However, it can now also be connected to low-capacity power inverters. The ability to connect to a high-performance power inverter allows us to offer a wider range of options to our customers.



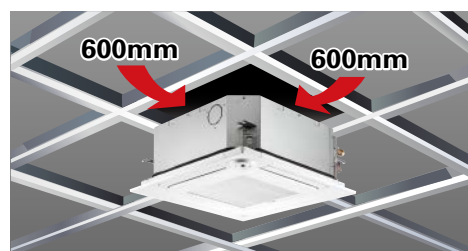
New lineup

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 | ✓ | ✓ | ✓ | ✓ | ✓ |

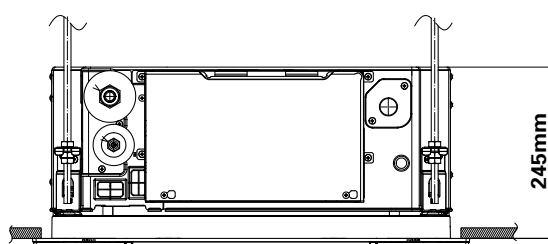
Beautiful design

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 2x2 (600mm*600mm) ceiling construction specifications.



The height above ceiling of 245mm

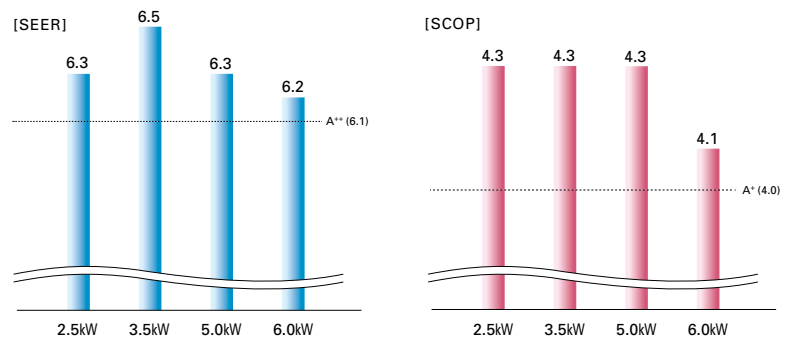
The height above ceiling of 245mm enables fitting into narrow ceiling space. Installation is simple, even when the ceiling spaces are narrow to make the ceilings higher. Of course, in addition to our products, replacing competitors' product is simplified too.



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 more comfortable room condition.



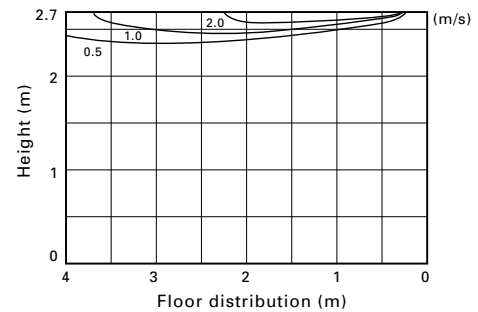
Horizontal Airflow

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]*

SLZ-M60FA

Flow angle, cooling at 20°C (ceiling height 2.7m)

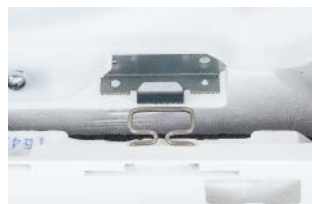


*Vane angle: Horizontal

Easy installation

Temporary hanging hook

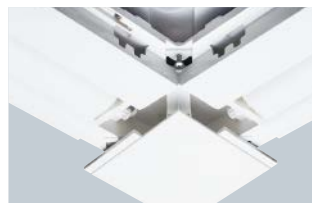
The structure of the panel has been revised and is now equipped with a temporary hanging hook. This has improved work efficiency during temporary panel installation.



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.

■ Corner panel

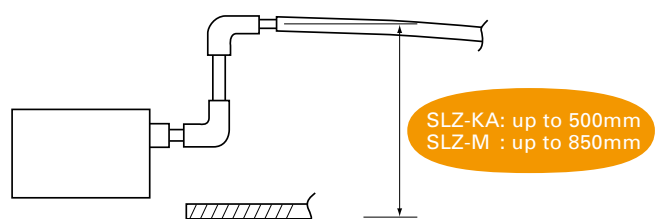


■ Control box cover



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.



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.

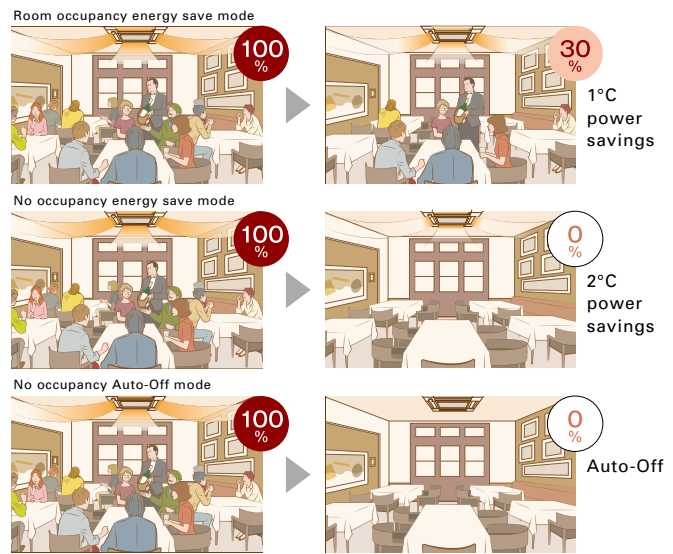
No occupancy energy-saving mode

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.

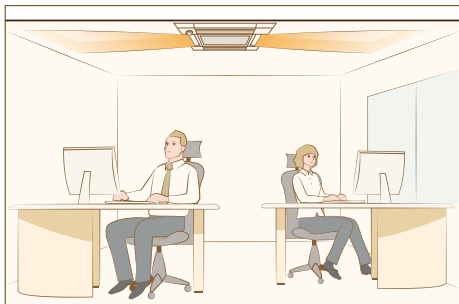


*PAR-41MAA is required for each setting

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-41MAA or PAR-SL101A-E is required for each setting.

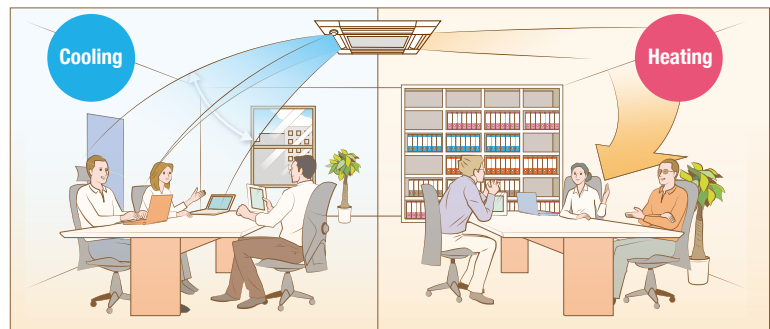
Seasonal airflow*

<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-41MAA is required for each setting.

SLZ-M SERIES



Indoor Unit

R32
R410A



SLZ-M15/25/35/50/60FA2



Panel

| Panel | With Signal Receiver | With 3D i-see Sensor | With Wireless Remote Controller |
|-------------|----------------------|----------------------|---------------------------------|
| SLP-2FA | | | |
| SLP-2FAL | ✓ | | |
| SLP-2FAE | | ✓ | |
| SLP-2FALE | ✓ | ✓ | |
| SLP-2FALM2 | ✓ | | ✓ |
| SLP-2FALME2 | ✓ | ✓ | ✓ |

Outdoor Unit

R32 For Single

R32 For Multi (Twin/Triple/Quadruple)



PUZ-ZM35/50



PUZ-ZM60



PUZ-ZM71



PUZ-ZM100/125/140

Remote Controller



Enclosed in
SLP-2FALM2/SLP-2FALME2



*optional



*optional



*optional



| Indoor Unit Combination | Outdoor Unit Capacity | | | | | | | | | | | |
|-------------------------|-----------------------|------|------|----|-----|-----|----------|--------------|------|------------|--------------|--------------|
| | For Single | | | | | | For Twin | | | For Triple | | |
| | 35 | 50 | 60 | 71 | 100 | 125 | 140 | 71 | 100 | 125 | 100 | 125 |
| Power Inverter (PUZ-ZM) | 35×1 | 50×1 | 60×1 | - | - | - | - | 35×2 | 50×2 | 60×2 | 35×3 | 50×3 |
| Distribution Pipe | - | - | - | - | - | - | - | MSDD-50TR2-E | | | MSDT-111R3-E | |
| | | | | | | | | | | | | MSDF-111R2-E |

| Type | | | | Inverter Heat Pump | | | |
|--------------------------------------|---|---------------------------------|------------|--------------------------|--------------------------|--------------------------|------------------|
| Indoor Unit | | | | SLZ-M35FA2 | SLZ-M50FA2 | SLZ-M60FA2 | |
| Outdoor Unit | | | | PUZ-ZM35VKA2 | PUZ-ZM50VKA2 | PUZ-ZM60VHA2 | |
| Refrigerant ⁽¹⁾ | | | | R32 | | | |
| Power Supply | | | | Outdoor power supply | | | |
| Cooling | Source | | | 230/Single/50 | | | |
| | Outdoor(V/Phase/Hz) | | | | | | |
| | Capacity | Rated | kW | 3.6 | 5.0 | 6.1 | |
| | | Min-Max | kW | 1.6 - 4.5 | 2.3 - 5.6 | 2.7 - 6.5 | |
| | Total Input | Rated | kW | 0.800 | 1.315 | 1.648 | |
| | EER | | | 4.50 | 3.80 | 3.70 | |
| | Design load | | kW | 3.6 | 5.0 | 6.1 | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 194 | 280 | 346 | |
| | SEER ⁽⁴⁾ | | | 6.5 | 6.2 | 6.1 | |
| | | Energy efficiency class | | A++ | A++ | A++ | |
| Heating | Capacity | Rated | kW | 4.1 | 5.0 | 6.4 | |
| | | Min-Max | kW | 1.6 - 5.0 | 2.5 - 5.5 | 2.8 - 7.3 | |
| | Total Input | Rated | kW | 1.205 | 1.470 | 2.064 | |
| | COP | | | 3.40 | 3.40 | 3.10 | |
| | Design load | | kW | 2.4 | 3.8 | 4.4 | |
| | Declared Capacity | at reference design temperature | kW | 2.4 (-10°C) | 3.8 (-10°C) | 4.4 (-10°C) | |
| | | at bivalent temperature | kW | 2.4 (-10°C) | 3.8 (-10°C) | 4.4 (-10°C) | |
| | | at operation limit temperature | kW | 2.2 (-11°C) | 3.7 (-11°C) | 2.8 (-20°C) | |
| | Back up heating capacity | | kW | 0.0 | 0.0 | 0.0 | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 820 | 1273 | 1560 | |
| | SCOP ⁽⁴⁾ | | | 4.0 | 4.1 | 3.9 | |
| | | Energy efficiency class | | A+ | A+ | A | |
| Operating Current(Max) | | A | 13.2 | 13.3 | 19.4 | | |
| Indoor Unit | Input (cooling / Heating) | Rated | kW | 0.02 / 0.02 | 0.03 / 0.03 | 0.04 / 0.04 | |
| | Operating Current(Max) | | A | 0.24 | 0.32 | 0.43 | |
| | Dimensions | H*W*D | mm | 245-570-570 <10-625-625> | 245-570-570 <10-625-625> | 245-570-570 <10-625-625> | |
| | Weight | | kg | 15 <3> | 15 <3> | 15 <3> | |
| | Air Volume (Lo-Mi2-Mi1-Hi) | | m³/min | 6.5-8.0-9.5 | 7.0-9.0-11.5 | 7.5-11.5-13.0 | |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | dB(A) | 25-30-34 | 27-34-39 | 32-40-43 | |
| | Sound Level (PWL) | | dB(A) | 51 | 56 | 60 | |
| | Outdoor Unit | Dimensions | H*W*D | mm | 630-809-300 | 630-809-300 | 943-950-330(+25) |
| Weight | | | kg | 46 | 46 | 67 | |
| Air Volume | | Cooling | m³/min | 45 | 45 | 55 | |
| | | Heating | m³/min | 45 | 45 | 55 | |
| Sound Level (SPL) | | Cooling | dB(A) | 44 | 44 | 47 | |
| | | Heating | dB(A) | 46 | 46 | 49 | |
| Sound Level (PWL) | | Cooling | dB(A) | 65 | 65 | 67 | |
| Operating Current(Max) | | | A | 13 | 13 | 19 | |
| Breaker Size | | | A | 16 | 16 | 25 | |
| Ext.Piping | | Diameter ⁽³⁾ | Liquid/Gas | mm | 6.35 / 12.7 | 6.35 / 12.7 | 9.52 / 15.88 |
| | Max.Length | Out-In | m | 50 | 50 | 55 | |
| | Max.Height | Out-In | m | 30 | 30 | 30 | |
| Guaranteed Operating Range (Outdoor) | Cooling ⁽³⁾ | | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | |
| | Heating | | °C | -11 ~ +21 | -11 ~ +21 | -20 ~ +21 | |

*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 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.

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

SLZ-M SERIES



Indoor Unit



SLZ-M15/25/35/50/60FA2

Panel

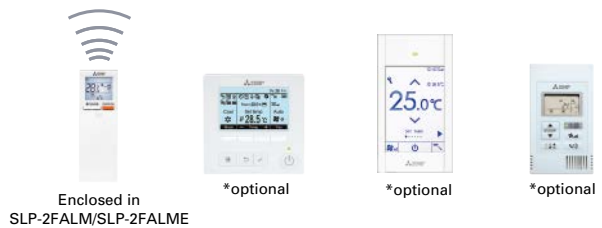
| Panel | With Signal Receiver | With 3D i-see Sensor | With Wireless Remote Controller |
|-------------|----------------------|----------------------|---------------------------------|
| SLP-2FA | | | |
| SLP-2FAL | ✓ | | |
| SLP-2FAE | | ✓ | |
| SLP-2FALE | ✓ | ✓ | |
| SLP-2FALM2 | ✓ | | ✓ |
| SLP-2FALME2 | ✓ | ✓ | ✓ |

Outdoor Unit

For Single



Remote Controller



| Indoor Unit Combination | | Outdoor Unit Capacity | | | | |
|-------------------------|--|-----------------------|------|------|------|----|
| | | For Single | | | | |
| | | 25 | 35 | 50 | 60 | 71 |
| S Seires | | 25x1 | 35x1 | 50x1 | 60x1 | - |
| Distribution Pipe | | - | - | - | - | - |

| Type | | | | Inverter Heat Pump | | | | | | | |
|---|---|------------|-------------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|--------------------------|--|
| Indoor Unit | | | | SLZ-M25FA2 | | SLZ-M35FA2 | | SLZ-M50FA2 | | SLZ-M60FA2 | |
| Outdoor Unit | | | | SUZ-M25VA | | SUZ-M35VA | | SUZ-M50VA | | SUZ-M60VA | |
| Refrigerant ⁽¹⁾ | | | | R32 | | | | | | | |
| Power Supply | | | | Outdoor power supply | | | | | | | |
| Cooling | | | | 230/Single/50 | | | | | | | |
| | Capacity | Rated | kW | 2.5 | | 3.5 | | 4.6 | | 5.7 | |
| | | Min-Max | kW | 1.4 - 3.2 | | 0.7 - 3.9 | | 1.0 - 5.2 | | 1.5 - 6.3 | |
| | Total Input | Rated | kW | 0.657 | | 1.093 | | 1.352 | | 1.676 | |
| | EER | | | 3.80 | | 3.20 | | 3.40 | | 3.40 | |
| | Design load | | kW | 2.5 | | 3.5 | | 4.6 | | 5.7 | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 139 | | 183 | | 253 | | 321 | |
| | SEER ⁽⁴⁾ | | | 6.3 | | 6.7 | | 6.3 | | 6.2 | |
| | Energy efficiency class | | | A++ | | A++ | | A++ | | A++ | |
| | Capacity | Rated | kW | 3.2 | | 4.0 | | 5.0 | | 6.4 | |
| | | Min-Max | kW | 1.3 - 4.2 | | 1.0 - 5.0 | | 1.3 - 5.5 | | 1.6 - 7.3 | |
| Total Input | Rated | kW | 0.886 | | 1.078 | | 1.562 | | 2.133 | | |
| COP | | | 3.61 | | 3.71 | | 3.20 | | 3.00 | | |
| 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) | | 4.1 (-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) | | |
| Back up heating capacity | | kW | 0.2 | | 0.3 | | 0.4 | | 0.5 | | |
| Annual electricity consumption ⁽²⁾ | | kWh/a | 716 | | 845 | | 1192 | | 1560 | | |
| SCOP ⁽⁴⁾ | | | 4.3 | | 4.3 | | 4.2 | | 4.1 | | |
| Energy efficiency class | | | A+ | | A+ | | A+ | | A+ | | |
| Operating Current(Max) | | | | A | | 8.7 | | 13.8 | | 15.2 | |
| Indoor Unit | Input [cooling / Heating] | Rated | kW | 0.02 / 0.02 | | 0.02 / 0.02 | | 0.03 / 0.03 | | 0.04 / 0.04 | |
| | Operating Current(Max) | | A | 0.20 | | 0.24 | | 0.32 | | 0.43 | |
| | Dimensions | 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> | |
| | Weight | | kg | 15 <3> | | 15 <3> | | 15 <3> | | 15 <3> | |
| | Air Volume (Lo-Mi2-Mi1-Hi) | | m³/min | 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 (Lo-Mi2-Mi1-Hi) (SPL) | | dB(A) | 25-28-31 | | 25-30-34 | | 27-34-39 | | 32-40-43 | |
| | Sound Level (PWL) | | dB(A) | 48 | | 51 | | 56 | | 60 | |
| | Dimensions | H*W*D | mm | 550-800-285 | | 550-800-285 | | 714-800-285 | | 880-840-330 | |
| | Weight | | kg | 30 | | 35 | | 41 | | 54 | |
| | Air Volume | Cooling | m³/min | 36.3 | | 34.3 | | 45.8 | | 50.1 | |
| Outdoor Unit | Sound Level (SPL) | Heating | m³/min | 34.6 | | 32.7 | | 43.7 | | 50.1 | |
| | | Cooling | dB(A) | 45 | | 48 | | 48 | | 49 | |
| | Sound Level (PWL) | Heating | dB(A) | 46 | | 48 | | 49 | | 51 | |
| | | Cooling | dB(A) | 59 | | 59 | | 64 | | 65 | |
| | Operating Current(Max) | | A | 6.8 | | 8.5 | | 13.5 | | 14.8 | |
| | Breaker Size | | A | 10 | | 10 | | 20 | | 20 | |
| | Ext.Piping Diameter ⁽⁵⁾ | Liquid/Gas | mm | 6.35 / 9.52 | | 6.35 / 9.52 | | 6.35 / 12.7 | | 6.35 / 15.88 | |
| | Max.Length | Out-In | m | 20 | | 20 | | 30 | | 30 | |
| | Max.Height | Out-In | m | 12 | | 12 | | 30 | | 30 | |
| | Guaranteed Operating Range (Outdoor) | | | Cooling ⁽³⁾ | °C | -10 ~ +46 | | -10 ~ +46 | | -15 ~ +46 | |
| Heating | | | | °C | -10 ~ +24 | | -10 ~ +24 | | -10 ~ +24 | | |

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

*4 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

SLZ-M SERIES



Indoor Unit

R32
R410A



SLZ-M15/25/35/50/60FA2



Panel

| Panel | With Signal Receiver | With 3D i-see Sensor | With Wireless Remote Controller |
|-------------|----------------------|----------------------|---------------------------------|
| SLP-2FA | | | |
| SLP-2FAL | ✓ | | |
| SLP-2FAE | | ✓ | |
| SLP-2FALE | ✓ | ✓ | |
| SLP-2FALM2 | ✓ | | ✓ |
| SLP-2FALME2 | ✓ | ✓ | ✓ |

Outdoor Unit

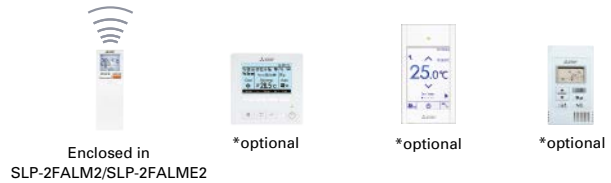
R410A For Single

R410A For Multi (Twin/Triple/Quadruple)



SUZ-KA25/35VA6 SUZ-KA50/60VA6 PUHZ-ZRP71 PUHZ-ZRP100/125/140

Remote Controller



| Indoor Unit Combination | Outdoor Unit Capacity | | | | | | | | | | | | | |
|-------------------------|-----------------------|------|------|------|----|-----|-----|----------|-------------|------|------------|-------------|------|---------------|
| | For Single | | | | | | | For Twin | | | For Triple | | | For Quadruple |
| | 25 | 35 | 50 | 60 | 71 | 100 | 125 | 140 | 71 | 100 | 125 | 100 | 125 | 140 |
| Power Inverter (PUZ-ZM) | 25x1 | 35x1 | 50x1 | 60x1 | - | - | - | - | 35x2 | 50x2 | 60x2 | 35x3 | 50x3 | 50x3 |
| Distribution Pipe | - | - | - | - | - | - | - | - | MSDD-50TR-E | | | MSDT-111R-E | | |
| | | | | | | | | | | | | | | MSDF-1111R-E |

| Type | | | | Inverter Heat Pump | | | | |
|---|---|---------------------------------|------------------------|----------------------|-------------|--------------|---------------|--------------|
| Indoor Unit | | | | SLZ-M25FA2 | SLZ-M35FA2 | SLZ-M50FA2 | SLZ-M60FA2 | |
| Outdoor Unit | | | | SUZ-KA25VA6 | SUZ-KA35VA6 | SUZ-KA50VA6 | SUZ-KA60VA6 | |
| Refrigerant ⁽¹⁾ | | | | R410A | | | | |
| Power Supply | Source | | | Outdoor power supply | | | | |
| Cooling | Outdoor(V/Phase/Hz) | | | 230/Single/50 | | | | |
| | 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 | |
| | Total Input | Rated | kW | 0.684 | 0.972 | 1.394 | 1.767 | |
| | EER | | | 3.80 | 3.60 | 3.30 | 3.17 | |
| | Design load | | kW | 2.6 | 3.5 | 4.6 | 5.6 | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 144 | 188 | 256 | 316 | |
| | SEER ⁽⁴⁾ | | | 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 |
| | | Min-Max | kW | 1.3 - 4.2 | 1.7 - 5.0 | 1.7 - 6.0 | 2.5 - 7.4 | |
| Total Input | | Rated | kW | 0.886 | 1.108 | 1.558 | 2.278 | |
| COP | | | | 3.61 | 3.61 | 3.21 | 2.81 | |
| 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 capacity | | | kW | 0.2 | 0.3 | 0.4 | 0.6 | |
| Annual electricity consumption ⁽²⁾ | | | kWh/a | 716 | 846 | 1166 | 1573 | |
| SCOP ⁽⁴⁾ | | | | 4.3 | 4.3 | 4.3 | 4.0 | |
| | | Energy efficiency class | | A+ | A+ | A+ | A+ | |
| Operating Current(Max) | | | A | 7.2 | 8.4 | 12.3 | 14.4 | |
| Indoor Unit | Input [cooling / Heating] | Rated | kW | 0.02 / 0.02 | 0.02 / 0.02 | 0.03 / 0.03 | 0.04 / 0.04 | |
| | Operating Current(Max) | | A | 0.20 | 0.24 | 0.32 | 0.43 | |
| | Dimensions | H*W*D | mm | 245-570-570 | 245-570-570 | 245-570-570 | 245-570-570 | |
| | Weight | | kg | 15 <3> | 15 <3> | 15 <3> | 15 <3> | |
| | Air Volume (Lo-Mi2-Mi1-Hi) | | m³/min | 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 (Lo-Mi2-Mi1-Hi) (SPL) | | dB(A) | 25-28-31 | 25-30-34 | 27-34-39 | 32-40-43 | |
| | Sound Level (PWL) | | dB(A) | 48 | 51 | 56 | 60 | |
| | Dimensions | H*W*D | mm | 550-800-285 | 550-800-285 | 880-840-330 | 880-840-330 | |
| | Weight | | kg | 30 | 35 | 54 | 50 | |
| | Outdoor Unit | 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(Max) | A | 7 | 8.2 | 12 | 14 | |
| Breaker Size | | A | 10 | 10 | 20 | 20 | | |
| Ext.Piping | | Diameter ⁽⁵⁾ | Liquid/Gas | mm | 6.35 / 9.52 | 6.35 / 9.52 | 6.35 / 12.7 | 6.35 / 15.88 |
| | | Max.Length | Out-In | m | 20 | 20 | 30 | 30 |
| | | Max.Height | Out-In | m | 12 | 12 | 30 | 30 |
| Guaranteed Operating Range (Outdoor) | | | Cooling ⁽²⁾ | °C | -10 ~ +46 | -10 ~ +46 | -15 ~ +46 | |
| | | | Heating | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | |

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

*4 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

SEZ SERIES



SEZ-M25-71DA(L)2



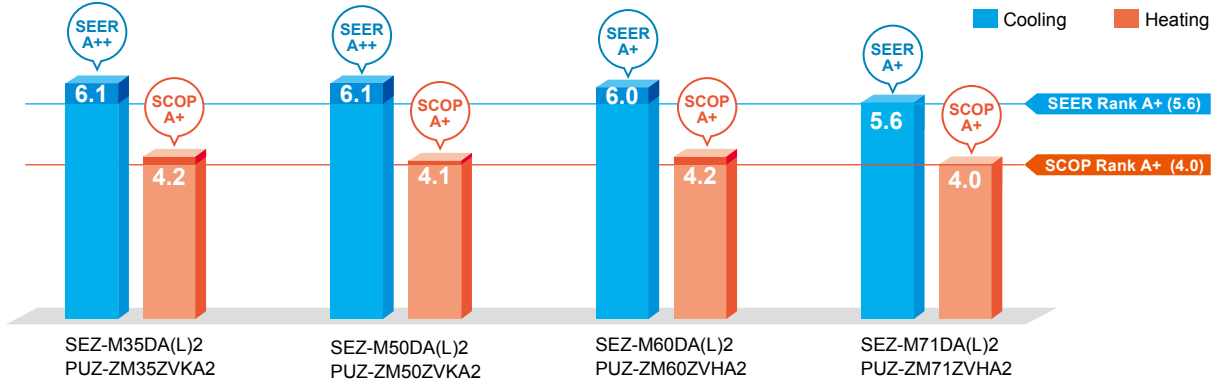
This concealed ceiling-mounted indoor unit series is compact, and fits easily into rooms with lowered ceilings. Highly reliable energy-saving performance makes it a best match choice for concealed unit installations.

High Energy Efficiency

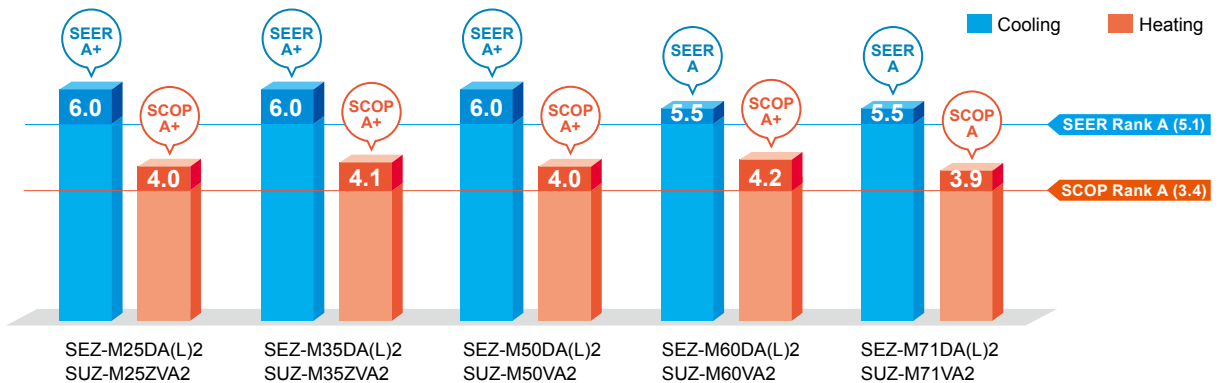


Highly efficient indoor units with DC inverter contribute to a reduction in electricity consumption throughout a year. The SEZ series has achieved energy-saving performance of "A+" or higher when connected to PUZ series and "A" or higher when connected to SUZ-M series.

Power Inverter

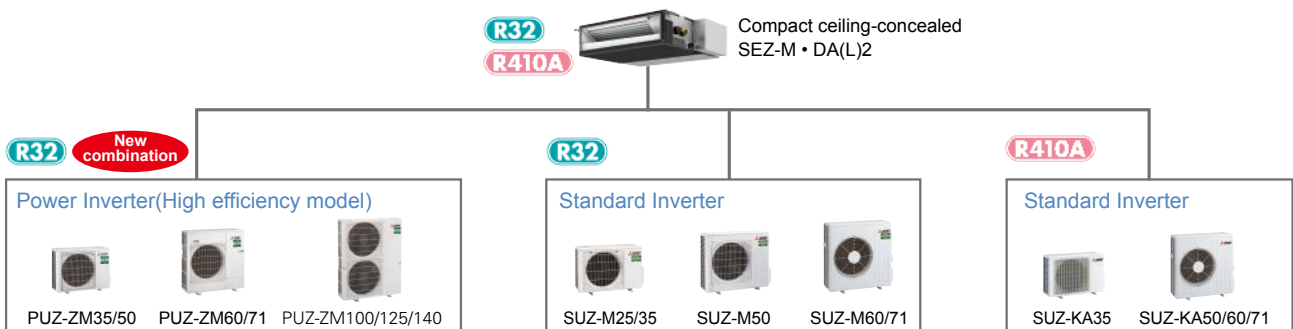


Standard Inverter (R32)



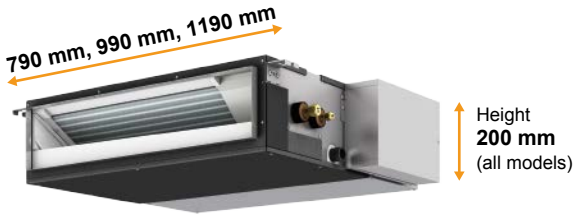
Lineup of compatible outdoor unit has been expanded by power inverter series

Although models in the SEZ series were previously only compatible with the standard inverter, they can now also be connected to small capacity power inverters. The ability to connect to a power inverter with high-performance specifications makes it possible to offer an even wider range of solutions to our customers.



Compact Design with a Height of 200 mm

The height of the units is 200 mm for all capacity ranges. Its thin body is suitable for installation in low ceilings with a small cavity space.



| SEZ-M DA(L)2 | | M25 | M35 | M50 | M60 | M71 |
|--------------|----|-----|-----|------|-----|-----|
| Height | mm | 200 | | | | |
| Width | mm | 790 | 990 | 1190 | | |

Low Noise Operation

Low noise operation contributes to a peaceful indoor environment. The SPL of M25/35 model, which is the quietest model among the new series, is as low as 22 dB (ESP 5 Pa, low fan speed setting).

| Capacity | | M25 | M35 | M50 | M60 | M71 |
|----------------------|-----------|-----|-----|-----|-----|-----|
| Sound pressure level | Fan speed | | | | | |
| | High | 29 | 30 | 36 | 37 | 39 |
| | Mid | 25 | 26 | 33 | 33 | 34 |
| | Low | 22 | 22 | 29 | 29 | 29 |

*When fan speed setting is low, the cooling/heating capacity is subject to reduce.
 *Operation noise may increase due to the installation environment or the operation status.

Selectable Static Pressure Levels

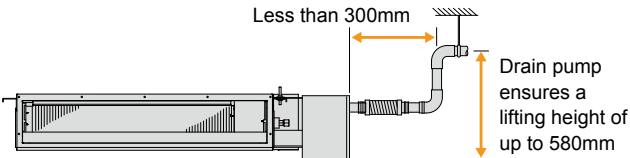
External static pressure can be selected from 5, 25, 35, and 50 Pa (set to 25 Pa at the time of factory shipment).

Four levels Available for All Models

Drain Pump (Optional)

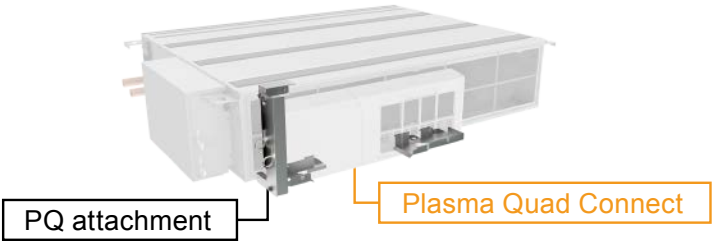
The PAC-KE07DM-E drain pump is available as an option. The drain connection can be raised as high as 580 mm, allowing more freedom in piping layout design.

*The use of drain pump may increase the operation noise.



Connectable to Plasma Quad Connect

The optional Plasma Quad Connect MAC-100FT-E can be installed on the indoor unit's air inlet side. For installation, PQ attachment PAC-HA11PAR is required.



SEZ-M SERIES



Indoor Unit

R32
R410A



SEZ-M25/35/50/60/71DA2 (Requires Wired Remote Controller)
SEZ-M25/35/50/60/71DAL2 (Wireless Remote Controller is enclosed)

Outdoor Unit

R32 For Single

R32 For Multi
(Twin/Triple/Quadruple)



Remote Controller



| Indoor Unit Combination | Outdoor Unit Capacity | | | | | | | | | | | | | |
|-------------------------|-----------------------|------|------|------|-----|-----|-----|--------------|------|------|--------------|------|------|---------------|
| | For Single | | | | | | | For Twin | | | For Triple | | | For Quadruple |
| | 35 | 50 | 60 | 71 | 100 | 125 | 140 | 71 | 100 | 125 | 100 | 125 | 140 | 125 140 |
| Power Inverter (PUZ-ZM) | 35x1 | 50x1 | 60x1 | 71x1 | - | - | - | 35x2 | 50x2 | 60x2 | 35x3 | 50x3 | 50x3 | 35x4 35x4 |
| Distribution Pipe | - | - | - | - | - | - | - | MSDD-50TR2-E | | | MSDT-111R3-E | | | MSDF-111R2-E |

| Type | | | | Inverter Heat Pump | | | | | | | |
|--|--|---------------------------------|------------|---------------------------------------|------------------------|------------------------|------------------------|------------------|------|---------------|--|
| Indoor Unit | | | | SEZ-M35DA(L)2 | | SEZ-M50DA(L)2 | | SEZ-M60DA(L)2 | | SEZ-M71DA(L)2 | |
| Outdoor Unit | | | | PUZ-ZM35VKA2 | | PUZ-ZM50VKA2 | | PUZ-ZM60VHA2 | | PUZ-ZM71VHA2 | |
| Refrigerant ⁽¹⁾ | | | | R32 | | | | | | | |
| Power Supply | | | | Outdoor power supply 230/Single/50 | | | | | | | |
| Cooling | Source | | | | | | | | | | |
| | Outdoor(V/Phase/Hz) | | | | | | | | | | |
| | Capacity | Rated | kW | 3.6 | 5.0 | 6.1 | 7.1 | | | | |
| | | Min-Max | kW | 1.6 - 3.9 | 2.3 - 5.6 | 2.7 - 6.3 | 3.3 - 8.1 | | | | |
| | Total Input | Rated | kW | 0.857 | 1.315 | 1.525 | 1.918 | | | | |
| | EER ⁽¹⁴⁾ | | | 4.20 | 3.80 | 4.00 | 3.70 | | | | |
| | Design load | | kW | 3.6 | 5.0 | 6.1 | 7.1 | | | | |
| | Annual electricity consumption ⁽¹²⁾ | | kWh/a | 205 | 287 | 352 | 440 | | | | |
| | SEER ⁽¹⁴⁾⁽¹⁵⁾ | | | 6.1 | 6.1 | 6.0 | 5.6 | | | | |
| Heating | | Energy efficiency class | | A++ | A++ | A+ | A+ | | | | |
| | Capacity | Rated | kW | 4.1 | 6.0 | 7.0 | 8.0 | | | | |
| | | Min-Max | kW | 1.6 - 5.0 | 2.5 - 7.2 | 2.8 - 8.0 | 3.5 - 10.2 | | | | |
| | Total Input | Rated | kW | 1.025 | 1.578 | 1.707 | 2.051 | | | | |
| | COP ⁽¹⁴⁾ | | | 4.00 | 3.80 | 4.10 | 3.90 | | | | |
| | Design load | | kW | 2.4 | 3.8 | 4.4 | 4.7 | | | | |
| | Declared Capacity | at reference design temperature | kW | 2.4 (-10°C) | 3.8 (-10°C) | 4.4 (-10°C) | 4.7 (-10°C) | | | | |
| | | at bivalent temperature | kW | 2.4 (-10°C) | 3.8 (-10°C) | 4.4 (-10°C) | 4.7 (-10°C) | | | | |
| | | at operation limit temperature | kW | 2.2 (-11°C) | 3.7 (-11°C) | 2.8 (-20°C) | 3.5 (-20°C) | | | | |
| | Back up heating capacity | | kW | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| | Annual electricity consumption ⁽¹²⁾ | | kWh/a | 791 | 1279 | 1464 | 1633 | | | | |
| | SCOP ⁽¹⁴⁾⁽¹⁵⁾ | | | 4.2 | 4.1 | 4.2 | 4.0 | | | | |
| | | Energy efficiency class | | A+ | A+ | A+ | A+ | | | | |
| | Operating Current(Max) | | | | A | 13.7 | 13.8 | 19.9 | 20.0 | | |
| | Indoor Unit | Input [cooling / Heating] | Rated | kW | 0.047 | 0.077 | 0.084 | 0.102 | | | |
| Operating Current(Max) | | | A | 0.65 | 0.82 | 0.88 | 1.00 | | | | |
| Dimensions | | H*W*D | mm | 200 - 990 - 700 | 200 - 990 - 700 | 200 - 1190 - 700 | 200 - 1190 - 700 | | | | |
| Weight | | | kg | 22 | 22 | 25.5 | 25.5 | | | | |
| Air Volume (Lo-Mid-Hi) | | | m³/min | 7 - 9 - 11 | 10 - 12.5 - 15 | 12 - 15 - 18 | 12 - 16 - 20 | | | | |
| External Static Pressure ⁽¹⁷⁾ | | | Pa | <5> - 25 - <35> - <50> | <5> - 25 - <35> - <50> | <5> - 25 - <35> - <50> | <5> - 25 - <35> - <50> | | | | |
| Sound Level (Lo-Mid-Hi) (SPL) | | Rated | dB(A) | 23 - 27 - 31 | 30 - 34 - 37 | 30 - 34 - 38 | 30 - 35 - 40 | | | | |
| | | 5Pa ⁽¹⁶⁾ | dB(A) | 22 - 26 - 30 | 29 - 33 - 36 | 29 - 33 - 37 | 29 - 34 - 39 | | | | |
| Sound Level (PWL) | | | dB(A) | 51 | 57 | 58 | 60 | | | | |
| Outdoor Unit | | Dimensions | H*W*D | mm | 630-809-300 | 630-809-300 | 943-950-330(+25) | 943-950-330(+25) | | | |
| | Weight | | kg | 46 | 46 | 67 | 67 | | | | |
| | Air Volume | Cooling | m³/min | 45 | 45 | 55 | 55 | | | | |
| | | Heating | m³/min | 45 | 45 | 55 | 55 | | | | |
| | Sound Level (SPL) | Cooling | dB(A) | 44 | 44 | 47 | 47 | | | | |
| | | Heating | dB(A) | 46 | 46 | 49 | 49 | | | | |
| | Sound Level (PWL) | Cooling | dB(A) | 65 | 65 | 67 | 67 | | | | |
| | | Operating Current(Max) | | A | 13 | 13 | 19 | 19 | | | |
| | Breaker Size | | A | 16 | 16 | 25 | 25 | | | | |
| | Ext.Piping | Diameter ⁽¹⁸⁾ | Liquid/Gas | mm | 6.35 / 12.7 | 6.35 / 12.7 | 9.52 / 15.88 | 9.52 / 15.88 | | | |
| Max.Length | | Out-In | m | 50 | 50 | 55 | 55 | | | | |
| Max.Height | | Out-In | m | 30 | 30 | 30 | 30 | | | | |
| Guaranteed Operating Range (Outdoor) | Cooling ⁽²⁰⁾ | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | | | | | |
| | Heating | °C | -11 ~ +21 | -11 ~ +21 | -20 ~ +21 | -20 ~ +21 | | | | | |

*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 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 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 25Pa

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

*6 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

*7 The factory setting of ESP is shown without < >.

*8 SPL measured at ESP 5Pa.

SEZ-M SERIES



Indoor Unit

R32
R410A



SEZ-M25/35/50/60/71DA2 (Requires Wired Remote Controller)
SEZ-M25/35/50/60/71DAL2 (Wireless Remote Controller is enclosed)

Outdoor Unit

For Single

R32



SUZ-M25/35VA

R32



SUZ-M50VA

R32



SUZ-M60/71VA

Remote Controller



Enclosed in
SEZ-M DAL2



*optional
(for SEZ-M DA2)



*optional
(for SEZ-M DA2)



*optional
(for SEZ-M DA2)



| Indoor Unit Combination | | Outdoor Unit Capacity | | | | |
|-------------------------|--|-----------------------|------|------|------|------|
| | | For Single | | | | |
| | | 25 | 35 | 50 | 60 | 71 |
| S Seires | | 25x1 | 35x1 | 50x1 | 60x1 | 71x1 |
| Distribution Pipe | | - | - | - | - | - |

| Type | | | | Inverter Heat Pump | | | | | | | | | | | | |
|--------------------------------------|---|-------------------------|---------------------------------|------------------------|-----|------------------------|-----------|------------------------|-----------|------------------------|-----------|------------------------|-----------|------------------------|-----------|--|
| Indoor Unit | | | | SEZ-M25DA(L)2 | | SEZ-M35DA(L)2 | | SEZ-M50DA(L)2 | | SEZ-M60DA(L)2 | | SEZ-M71DA(L)2 | | | | |
| Outdoor Unit | | | | SUZ-M25VA | | SUZ-M35VA | | SUZ-M50VA | | SUZ-M60VA | | SUZ-M71VA | | | | |
| Refrigerant ^(*) | | | | R32 | | | | | | | | | | | | |
| Power Supply | | | | Outdoor power supply | | | | | | | | | | | | |
| Cooling | Source Outdoor(V/Phase/Hz) | | | 230/Single/50 | | | | | | | | | | | | |
| | Capacity | | Rated | kW | | 2.5 | | 3.5 | | 5.0 | | 6.1 | | 7.1 | | |
| | | | Min-Max | kW | | 1.4 - 3.2 | | 0.7 - 3.9 | | 1.1 - 5.6 | | 1.6 - 6.3 | | 2.2 - 8.1 | | |
| | Total Input | | Rated | kW | | 0.714 | | 1.000 | | 1.547 | | 1.848 | | 2.151 | | |
| | EER ⁽⁴⁾ | | | | | 3.50 | | 3.50 | | 3.23 | | 3.30 | | 3.30 | | |
| | Design load | | | kW | | 2.5 | | 3.5 | | 5.0 | | 6.1 | | 7.1 | | |
| | Annual electricity consumption ⁽²⁾ | | | kWh/a | | 146 | | 202 | | 290 | | 385 | | 451 | | |
| SEER ^{(4)(*)} | | | | | 6.0 | | 6.0 | | 6.0 | | 5.5 | | 5.5 | | | |
| | | Energy efficiency class | | | A+ | | A+ | | A+ | | A | | A | | | |
| Heating | Capacity | | Rated | kW | | 2.9 | | 4.2 | | 6.0 | | 7.4 | | 8.0 | | |
| | | | Min-Max | kW | | 1.3 - 4.2 | | 1.1 - 5.0 | | 1.5 - 7.2 | | 1.6 - 8.0 | | 2.0 - 10.2 | | |
| | Total Input | | Rated | kW | | 0.803 | | 1.076 | | 1.617 | | 2.049 | | 2.285 | | |
| | COP ⁽⁴⁾ | | | | | 3.61 | | 3.90 | | 3.71 | | 3.61 | | 3.50 | | |
| | Design load | | | kW | | 2.2 | | 2.6 | | 4.3 | | 4.6 | | 5.8 | | |
| | Declared Capacity | | at reference design temperature | kW | | 2.0 (-10°C) | | 2.3 (-10°C) | | 3.8 (-10°C) | | 4.1 (-10°C) | | 5.2 (-10°C) | | |
| | | | at bivalent temperature | kW | | 2.0 (-7°C) | | 2.3 (-7°C) | | 3.8 (-7°C) | | 4.1 (-7°C) | | 5.2 (-7°C) | | |
| | | | at operation limit temperature | kW | | 2.0 (-10°C) | | 2.3 (-10°C) | | 3.8 (-10°C) | | 4.1 (-10°C) | | 5.2 (-10°C) | | |
| | Back up heating capacity | | | kW | | 0.2 | | 0.3 | | 0.5 | | 0.5 | | 0.6 | | |
| | Annual electricity consumption ⁽²⁾ | | | kWh/a | | 769 | | 878 | | 1501 | | 1516 | | 2030 | | |
| SCOP ^{(4)(*)} | | | | | 4.0 | | 4.1 | | 4.0 | | 4.2 | | 3.9 | | | |
| | | Energy efficiency class | | | A+ | | A+ | | A+ | | A+ | | A | | | |
| Operating Current(Max) | | | | A | | 7.4 | | 9.2 | | 14.3 | | 15.7 | | 15.8 | | |
| Indoor Unit | Input (cooling / Heating) | | Rated | kW | | 0.043 | | 0.047 | | 0.077 | | 0.084 | | 0.102 | | |
| | Operating Current(Max) | | | A | | 0.62 | | 0.65 | | 0.82 | | 0.88 | | 1.00 | | |
| | Dimensions | | H*W*D | mm | | 200 - 790 - 700 | | 200 - 790 - 700 | | 200 - 990 - 700 | | 200 - 1190 - 700 | | 200 - 1190 - 700 | | |
| | Weight | | | kg | | 18 | | 22 | | 22 | | 25.5 | | 25.5 | | |
| | Air Volume (Lo-Mid-Hi) | | | m³/min | | 5.5 - 7 - 9 | | 7 - 9 - 11 | | 10 - 12.5 - 15 | | 12 - 15 - 18 | | 12 - 16 - 20 | | |
| | External Static Pressure ⁽⁶⁾ | | | Pa | | <5> - 25 - <35> - <50> | | <5> - 25 - <35> - <50> | | <5> - 25 - <35> - <50> | | <5> - 25 - <35> - <50> | | <5> - 25 - <35> - <50> | | |
| | Sound Level (Lo-Mid-Hi) (SPL) | | Rated | dB(A) | | 23 - 26 - 30 | | 23 - 27 - 31 | | 30 - 34 - 37 | | 30 - 34 - 38 | | 30 - 35 - 40 | | |
| | | | 5Pa ⁽⁷⁾ | dB(A) | | 22 - 25 - 29 | | 22 - 26 - 30 | | 29 - 33 - 36 | | 29 - 33 - 37 | | 29 - 34 - 39 | | |
| | Sound Level (PWL) | | | dB(A) | | 50 | | 51 | | 57 | | 58 | | 60 | | |
| | Dimensions | | H*W*D | mm | | 550-800-285 | | 550-800-285 | | 714-800-285 | | 880-840-330 | | 880-840-330 | | |
| Outdoor Unit | Weight | | | kg | | 30 | | 35 | | 41 | | 54 | | 55 | | |
| | Air Volume | | Cooling | m³/min | | 36.3 | | 34.3 | | 45.8 | | 50.1 | | 50.1 | | |
| | | | Heating | m³/min | | 34.6 | | 32.7 | | 43.7 | | 50.1 | | 50.1 | | |
| | Sound Level (SPL) | | Cooling | dB(A) | | 45 | | 48 | | 48 | | 49 | | 49 | | |
| | | | Heating | dB(A) | | 46 | | 48 | | 49 | | 51 | | 51 | | |
| | Sound Level (PWL) | | Cooling | dB(A) | | 59 | | 59 | | 64 | | 65 | | 66 | | |
| | Operating Current(Max) | | | A | | 6.8 | | 8.5 | | 13.5 | | 14.8 | | 14.8 | | |
| | Breaker Size | | | A | | 10 | | 10 | | 20 | | 20 | | 20 | | |
| | Ext.Piping Diameter ⁽⁸⁾ | | Liquid/Gas | mm | | 6.35 / 9.52 | | 6.35 / 9.52 | | 6.35 / 12.7 | | 6.35 / 15.88 | | 9.52 / 15.88 | | |
| | Max.Length | | Out-In | m | | 20 | | 20 | | 30 | | 30 | | 30 | | |
| Max.Height | | Out-In | m | | 12 | | 12 | | 30 | | 30 | | 30 | | | |
| Guaranteed Operating Range (Outdoor) | | | | Cooling ⁽³⁾ | °C | | -10 ~ +46 | | -10 ~ +46 | | -15 ~ +46 | | -15 ~ +46 | | -15 ~ +46 | |
| | | | | Heating | °C | | -10 ~ +24 | | -10 ~ +24 | | -10 ~ +24 | | -10 ~ +24 | | -10 ~ +24 | |

*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 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 25Pa.

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

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

*6 The factory setting of ESP is shown without < >.

*7 SPL measured at ESP 5Pa.

SEZ-M SERIES



Indoor Unit

R32
R410A



SEZ-M25/35/50/60/71DA2 (Requires Wired Remote Controller)
SEZ-M25/35/50/60/71DAL2 (Wireless Remote Controller is enclosed)

Outdoor Unit

R410A For Single



SUZ-KA25/35VA6



SUZ-KA50/60/71VA6

Remote Controller



Enclosed in
SEZ-M DAL2



*optional
(for SEZ-M DA2)



*optional
(for SEZ-M DA2)



*optional
(for SEZ-M DA2)



| Indoor Unit Combination | | Outdoor Unit Capacity | | | | |
|-------------------------|-------------------|-----------------------|------|------|------|------|
| | | For Single | | | | |
| | | 25 | 35 | 50 | 60 | 71 |
| S series | | 25x1 | 35x1 | 50x1 | 60x1 | 71x1 |
| | Distribution Pipe | - | - | - | - | - |

| Type | | | | Inverter Heat Pump | | | | | |
|--------------------------------------|---|---------------------------------|------------|------------------------|------------------------|------------------------|------------------------|------------------------|--------------|
| Indoor Unit | | | | SEZ-M25DA(L)2 | SEZ-M35DA(L)2 | SEZ-M50DA(L)2 | SEZ-M60DA(L)2 | SEZ-M71DA(L)2 | |
| Outdoor Unit | | | | SUZ-KA25VA6 | SUZ-KA35VA6 | SUZ-KA50VA6 | SUZ-KA60VA6 | SUZ-KA71VA6 | |
| Refrigerant ⁽¹⁾ | | | | R410A | | | | | |
| Power Supply | Source | | | Outdoor power supply | | | | | |
| Cooling | Outdoor(V/Phase/Hz) | | | 230/Single/50 | | | | | |
| | 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 | 0.731 | 1.012 | 1.580 | 1.740 | 2.210 | |
| | EER ⁽⁴⁾ | | | 3.42 | 3.46 | 3.23 | 3.22 | 3.21 | |
| | Design load | | kW | 2.5 | 3.5 | 5.1 | 5.6 | 7.1 | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 159 | 203 | 297 | 353 | 449 | |
| | SEER ⁽⁴⁾⁽⁵⁾ | | 5.5 | 6.0 | 6.0 | 5.5 | 5.5 | | |
| | Energy efficiency class | | | A | A+ | A+ | A | A | |
| Heating | Capacity | Rated | kW | 2.9 | 4.2 | 6.4 | 7.4 | 8.1 | |
| | | Min-Max | kW | 1.3 - 4.5 | 1.7 - 5.0 | 1.7 - 7.2 | 2.5 - 8.0 | 2.6 - 10.4 | |
| | Total Input | Rated | kW | 0.803 | 1.132 | 1.800 | 2.200 | 2.268 | |
| | COP ⁽⁴⁾ | | | 3.61 | 3.71 | 3.56 | 3.36 | 3.50 | |
| | Design load | | 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) | 4.5 (-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 capacity | | kW | 0.3 | 0.3 | 0.5 | 1.0 | 0.7 | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 789 | 977 | 1614 | 1857 | 2147 | |
| | SCOP ⁽⁴⁾⁽⁵⁾ | | 3.9 | 4.0 | 3.9 | 4.1 | 3.9 | | |
| | Energy efficiency class | | | A | A+ | A | A+ | A | |
| Operating Current(Max) | | | | A | | | | | |
| Indoor Unit | Input (cooling / Heating) | Rated | kW | 0.043 | 0.047 | 0.077 | 0.084 | 0.102 | |
| | Operating Current(Max) | | A | 0.62 | 0.65 | 0.82 | 0.88 | 1.00 | |
| | Dimensions | H*W*D | mm | 200 - 790 - 700 | 200 - 990 - 700 | 200 - 990 - 700 | 200 - 1190 - 700 | 200 - 1190 - 700 | |
| | Weight | | kg | 18 | 22 | 22 | 25.5 | 25.5 | |
| | Air Volume (Lo-Mid-Hi) | | m³/min | 5.5 - 7 - 9 | 7 - 9 - 11 | 10 - 12.5 - 15 | 12 - 15 - 18 | 12 - 16 - 20 | |
| | External Static Pressure ⁽⁶⁾ | | Pa | <5> - 25 - <35> - <50> | <5> - 25 - <35> - <50> | <5> - 25 - <35> - <50> | <5> - 25 - <35> - <50> | <5> - 25 - <35> - <50> | |
| | Sound Level (Lo-Mid-Hi) (SPL) | Rated | dB(A) | 23 - 26 - 30 | 23 - 27 - 31 | 30 - 34 - 37 | 30 - 34 - 38 | 30 - 35 - 40 | |
| | | 5Pa ⁽⁷⁾ | dB(A) | 22 - 25 - 29 | 22 - 26 - 30 | 29 - 33 - 36 | 29 - 33 - 37 | 29 - 34 - 39 | |
| | Sound Level (PWL) | | dB(A) | 50 | 51 | 57 | 58 | 60 | |
| | Dimensions | H*W*D | mm | 550-800-285 | 550-800-285 | 880-840-330 | 880-840-330 | 880-840-330 | |
| Outdoor Unit | 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(Max) | | A | 7 | 8.0 | 12 | 14 | 16.1 |
| | Breaker Size | | A | 10 | 10 | 20 | 20 | 20 | |
| | Ext.Piping | Diameter ⁽⁶⁾ | Liquid/Gas | mm | 6.35 / 9.52 | 6.35 / 9.52 | 6.35 / 12.7 | 6.35 / 15.88 | 9.52 / 15.88 |
| | | Max.Length | Out-In | m | 20 | 20 | 30 | 30 | 30 |
| Max.Height | | Out-In | m | 12 | 12 | 30 | 30 | 30 | |
| Guaranteed Operating Range (Outdoor) | Cooling ⁽²⁾ | °C | | -10 ~ +46 | -10 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | |
| | Heating | °C | | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | |

*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 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/SCOP are measured at ESP 25Pa.

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

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

*6 The factory setting of ESP is shown without < >.

*7 SPL measured at ESP 5Pa.

CONTROL TECHNOLOGIES

User-friendly Deluxe Remote Controller with Excellent Operability and Visibility



PAR-41MAA

2+1 Back-up rotation*

The use of a three-refrigerant air conditioning system enables you to utilize the back-up, rotation, and cut-in functions. This allows you to implement effective risk management for added peace of mind.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

Back-up Function

In the unlikely event that one of the units stops operation due to an abnormality, the standby unit immediately starts back-up operation. Being fully prepared for a failure guarantees that and operation is always available and gives you the confidence that your system will be reliable in any situation.

| | | |
|--------|------|--------------------|
| Main-1 | Run | Abnormal condition |
| Main-2 | Run | Run |
| Sub | Stop | Run |

Rotation Function

A single remote controller is used to operate three-refrigerant air conditioning system in a rotation pattern. Reducing the burden on the equipment allows you to maintain a longer time between maintenance and increases product life.

| | | | |
|--------|------|------|------|
| Main-1 | Run | Stop | Run |
| Main-2 | Run | Run | Stop |
| Sub | Stop | Run | Run |

Cut-in Function

If the actual room temperature greatly differs from the set temperature and two-refrigerant air conditioning system is insufficient, the standby unit starts operation to provide support.

| | | | |
|--------|------|-----|------|
| Main-1 | Run | | |
| Main-2 | Run | | |
| Sub | Stop | Run | Stop |

The standby unit starts operation if the actual temperature deviates significantly from the set temperature.
















P

SERIES

















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.

| R32 INDOOR UNIT | | R32 OUTDOOR UNIT | |
|---|--|--|--|
|  4-way ceiling-cassette PLA-ZM EA PLA-M EA  Ceiling-concealed PEAD-M  Ceiling-suspended PCA-M  Professional Kitchen PCA-M HA  Wall-mounted PKA-M LA (L) PKA-M KA (L)  Ceiling-concealed PEA-M  Floor-standing PSA-M | | Power Inverter  PUZ-ZM35/50  PUZ-ZM60/71  PUZ-ZM100/125/140/ 200/250 | Standard Inverter  SUZ-M35  SUZ-M50  SUZ-M60/71  PUZ-M100/125/140  PUZ-M200/250 |

* Some indoor units cannot be used with this unit.



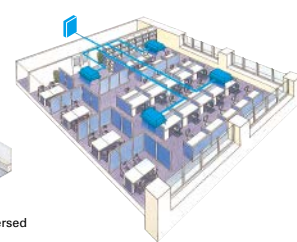
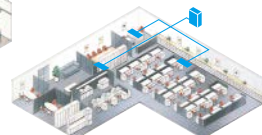
| R410A INDOOR UNIT | | R410A OUTDOOR UNIT | |
|--|--|---|---|
|  4-way ceiling-cassette PLA-ZM EA PLA-M EA  Ceiling-concealed PEAD-M  Ceiling-suspended PCA-M  Professional Kitchen PCA-M HA  Wall-mounted PKA-M LA (L) PKA-M KA (L)  Floor-standing PSA-M  Ceiling-concealed PEA-M | | Power Inverter  PUHZ-ZRP35/50  PUHZ-ZRP60/71  PUHZ-ZRP100/125/140/ 200/250 | Standard Inverter  SUZ-KA35  SUZ-KA50/60/71  PUHZ-P100/125/140  PUHZ-P200/250 |

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

* Some indoor units cannot be used with this unit.

SELECT COMBINATION

Choose the installation pattern for the indoor units. (In the case of a multi-system, distribution piping is necessary, so please select the necessary piping as well.)

| | | |
|--|---|--|
| <h3>Single System</h3>  | <h3>Simultaneous Multi-System</h3> <p>Twin Allows simultaneous operation of two indoor units on one floor.</p>  | <h3>Quadruple</h3> <p>Realises the optimum temperature distribution even in a large space.</p>  |
| | <p>Triple Can cover a large-scale space or dispersed installation on the same floor.</p>  | |

Connectable Combinations for Inverter Units

| Outdoor Unit Capacity | Indoor Unit Capacity | | |
|-----------------------|---|-----------------------------|--------------------------------|
| | Twin 50 : 50 | Triple 33 : 33 : 33 | Quadruple 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 MSDD-50WR-E MSDD-50TR2-E2 MSDD-50WR2-E | MSDT-111R-E MSDT-111R3-E | MSDF-1111R-E MSDF-1111R2-E |

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

Power Inverter SERIES

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



R32



PUZ-ZM35/50VKA2

R32



PUZ-ZM60/71VHA2

R32

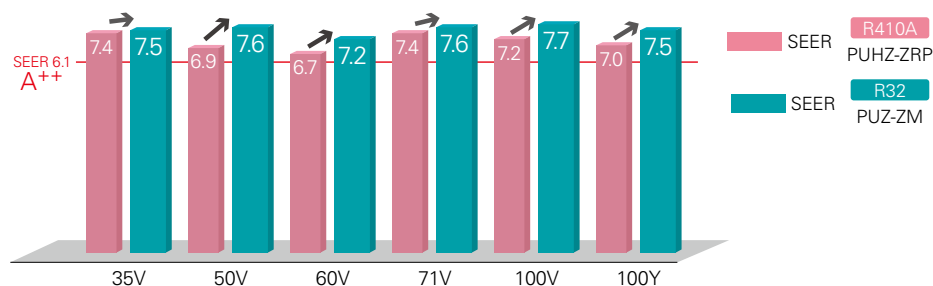


PUZ-ZM100/125/140V(Y)KA2
PUZ-ZM200/250YKA2

Industry-leading energy efficiency

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

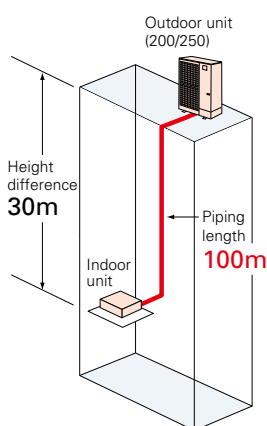
Introduction of new R32 refrigerant reduces energy consumption and realises energy savings.



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

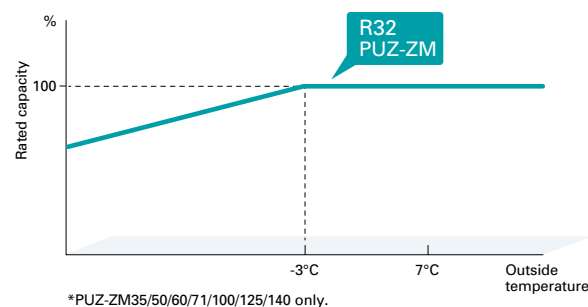
Longer piping length realised for 60, 71, 100, 125, 140, 200 and 250 classes, widely increasing installation flexibility.

| | Piping Length | |
|-------------|-------------------|---------------|
| | R410A PUHZ-ZRP | R32 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°C . Stay warm even at times of cold weather.



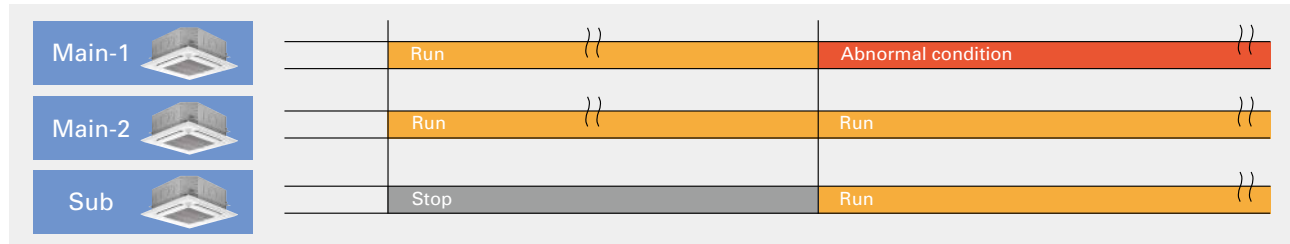
2+1 Back-up rotation*

The use of a three-refrigerant air conditioning system enables you to utilize the back-up, rotation, and cut-in functions. This allows you to implement effective risk management for added peace of mind.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

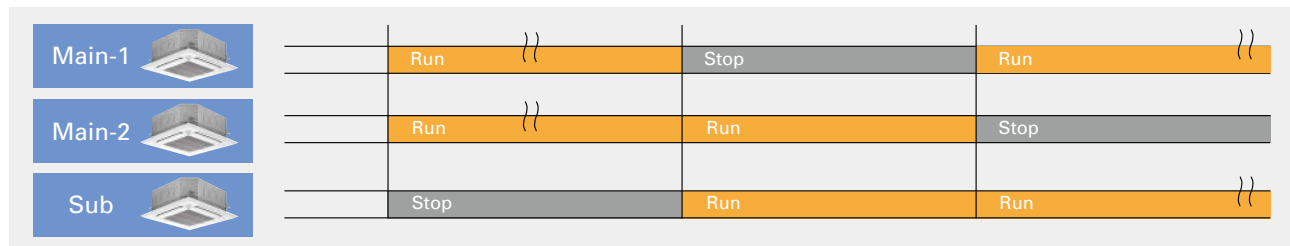
Back-up Function

In the unlikely event that one of the units stops operation due to an abnormality, the standby unit immediately starts back-up operation. Being fully prepared for a failure guarantees that and operation is always available and gives you the confidence that your system will be reliable in any situation.



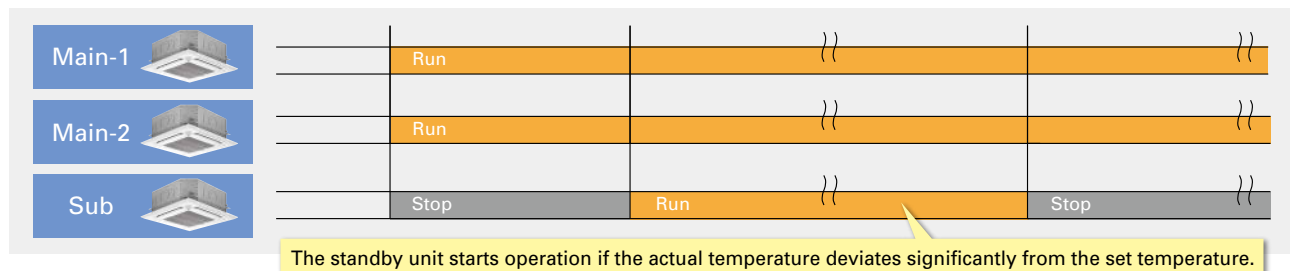
Rotation Function

A single remote controller is used to operate three-refrigerant air conditioning system in a rotation pattern. Reducing the burden on the equipment allows you to maintain a longer time between maintenance and increases product life.



Cut-in Function

If the actual room temperature greatly differs from the set temperature and two-refrigerant air conditioning system is insufficient, the standby unit starts operation to provide support.

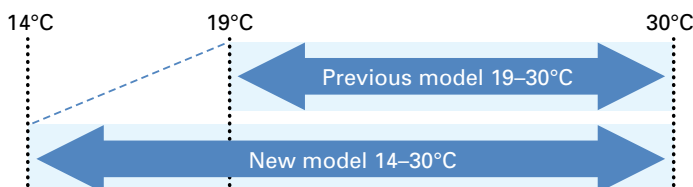


Extended cooling set temperature range*

In environments such as gyms where people do strenuous exercise, even if the room is cooled to an appropriate temperature, people may feel that it is hot, and they need a cooler air. To satisfy such demands, we have extended the lower limit of the cooling set temperature range from 19–30°C. to 14–30°C.

*Insulation kit (PAC-SK36HK-E) is required when indoor unit is PLA series.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.



Display of model names and serial numbers*

The model names and serial numbers of the indoor/outdoor units that are connected to the MA smart remote controller can be automatically acquired and displayed through one simple operation. This eliminates the need to directly check each unit and helps with inquiries in the case of an abnormality.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

●Model name display (example)

| Collect model names and S/N | |
|---|---------------|
| OU | PUZ-ZM200YKA2 |
| IU1 | PLA-ZM50EA2 |
| IU2 | PLA-ZM50EA2 |
| IU3 | PLA-ZM50EA2 |
| IU4 | PLA-ZM50EA2 |
| Collect data: <input checked="" type="checkbox"/> | |
| —Address + | S/N |

●Serial number display (example)

| Collect model names and S/N | |
|---|----------|
| OU | 1ZU00001 |
| IU1 | 1ZA00001 |
| IU2 | 1ZA00002 |
| IU3 | 1ZA00003 |
| IU4 | 1ZA00004 |
| Collect data: <input checked="" type="checkbox"/> | |
| —Address + | Model |

Preliminary error history*

In addition to error history, the history of preliminary abnormalities can be displayed. The feature enables the unit status check during inspection and maintenance.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

●Error history (Sample)

| Error history 1/4 | | | |
|---------------------|------|----------|---------|
| Error | Unt# | dd/mm/yy | |
| E0 | 0-1 | 21/10/20 | PM12:34 |
| E0 | 0-1 | 20/12/20 | AM 1:23 |
| E0 | 0-1 | 20/11/20 | PM10:55 |
| E0 | 0-1 | 20/10/20 | PM12:01 |
| Error history menu: | | | |
| ▼ Page ▲ | | Delete | |

●Preliminary error history (Sample)

| Preliminary error hist. 1/8 | | | |
|-----------------------------|------|----------|---------|
| Error | Unt# | dd/mm/yy | |
| E0 | 0-1 | 21/10/20 | PM12:34 |
| E0 | 0-1 | 20/12/20 | AM 1:23 |
| E0 | 0-1 | 20/11/20 | PM10:55 |
| E0 | 0-1 | 20/10/20 | PM12:01 |
| Error history menu: | | | |
| ▼ Page ▲ | | Delete | |

Display of power consumption*

It is possible to measure, acquire, and display the amount of energy used by each air conditioning system.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

< Data Collection Period >

Time data: Every 30 minutes over the past month

Monthly/daily data: Monthly over the past 14 months

Energy consumption values are calculated from estimated power consumption values according to the operating conditions. They may vary from the actual power consumption values. Please note that the power consumption of optional parts is not included except in the case of optional parts that have their power supplied directly by the outdoor unit.

●Every 30 minutes (example)

| Energy data | | | |
|---------------|---------------|----------|--|
| 2019- 1- 1 | 1234.5kWh | 1/6 | |
| 0:30 123.4kWh | 2:30 123.4kWh | | |
| 1:00 123.4kWh | 3:00 123.4kWh | | |
| 1:30 123.4kWh | 3:30 123.4kWh | | |
| 2:00 123.4kWh | 4:00 123.4kWh | | |
| Return: | | | |
| - Date + | | ▼ Page ▲ | |

●Daily (example)

| Energy data | | | |
|--------------|--------------|-----|--|
| 2019- 1 | 123456.7kWh | 1/4 | |
| 31 1234.5kWh | 27 1234.5kWh | | |
| 30 1234.5kWh | 26 1234.5kWh | | |
| 29 1234.5kWh | 25 1234.5kWh | | |
| 28 1234.5kWh | 24 1234.5kWh | | |
| Return: | | | |
| ▼ Page ▲ | | | |

●Monthly (example)

| Energy data | | | |
|--|-------------|-----|--|
| ▶2019- 1 | 123456.7kWh | 1/3 | |
| 2018- 12 | 123456.7kWh | | |
| 2018- 11 | 123456.7kWh | | |
| 2018- 10 | 123456.7kWh | | |
| 2018- 9 | 123456.7kWh | | |
| View daily data: <input checked="" type="checkbox"/> | | | |
| ▼ Cursor ▲ | | | |

Improved defrosting performance*

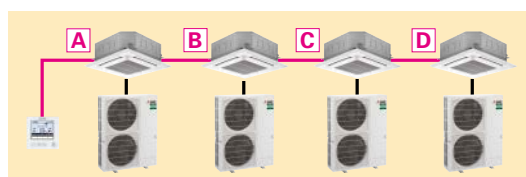
*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

Avoiding Simultaneous Defrosting

When each of multiple units is in operation for heating in the same space, these may start defrosting at the same time, resulting in a drop in the room temperature. Therefore, we have developed a new function that controls up to four-refrigerant air conditioning system to avoid simultaneous defrosting. By ensuring that defrosting is only performed by one unit at a time, it is possible to minimize any decrease in room temperature.

Example System Configuration

Four sets controlled by a single remote controller

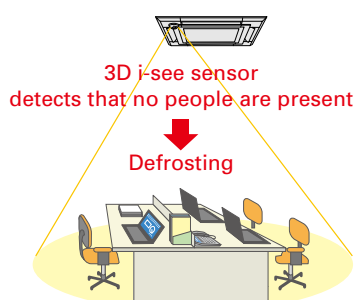


■When All Sets Are Controlled Together



Defrosting When People Are Absent

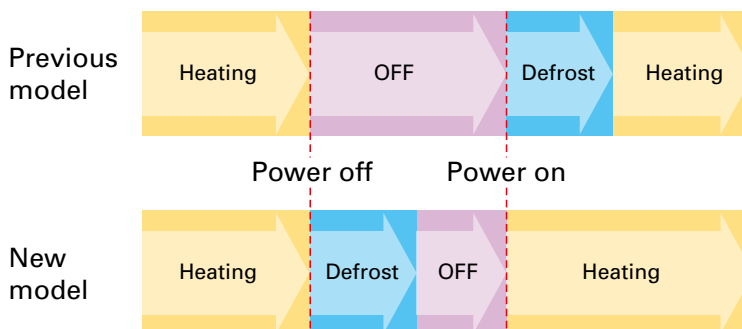
The use of the 3D i-see sensor allows a more comfortable defrosting schedule. After a large amount of frost has built up, the system will switch to defrosting when the 3D i-see sensor detects that no people are present. By minimizing defrosting while people are in the room, there is a much lower chance of a temperature drop while the room is occupied.



* Only compatible with 4-way cassette and 2x2 cassette models with an attached 3D i-see sensor panel. Even though people are present in the room, the defrosting process may start if all defrosting conditions are met.

Defrosting When Operation is Stopped

It takes a long time to start operation if there is an excess build-up of frost. Therefore, each unit is equipped with a control system where defrosting is performed immediately after operation is stopped when there is a large amount of frost. This allows heating to be quickly started the next day.



The power turns off after defrosting is complete and the system will start up smoothly the next time it is used.

Easier M-NET Adapter Installation

The optional M-NET adapter, which allows centralized control (M-NET control), is now easier to install. The redesigned mounting position significantly reduces the time and effort for installation.

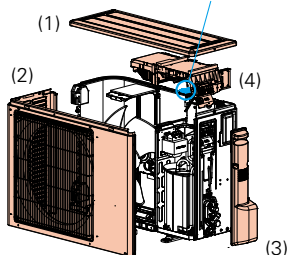
Conventional Model

PAC-SJ96MA-E

Removed parts

The (1) top panel, (2) front panel, (3) service panel, and (4) electronics box need to be removed, and the connector must be temporarily unplugged.

M-NET adapter mounting position



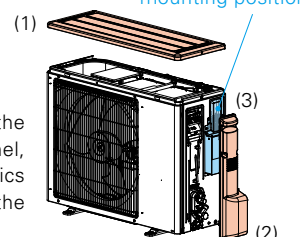
New Model

PAC-SK15MA-E

Removed parts

There is no need to remove the (1) top panel, (2) service panel, (3) service plate, electronics box, nor temporarily unplug the connector.

M-NET adapter mounting position



Improved chargeless piping length ZM100/125/140

PUZ-ZM100/125/140V(Y)KA used to have a chargeless pipe length of 30 m. However, starting with the V(Y)KA2 model, this has been extended to 40 m. This allows it to be used for a wider range of applications without the need for additional charging of refrigerant.

| | Maximum piping length | Chargeless piping length |
|-------------------|-----------------------|--------------------------|
| PUZ-ZM 100V (Y)KA | 100m | 30m |
| PUZ-ZM 125V (Y)KA | 100m | 30m |
| PUZ-ZM 140V (Y)KA | 100m | 30m |



| | Maximum piping length | Chargeless piping length |
|--------------------|-----------------------|--------------------------|
| PUZ-ZM 100V (Y)KA2 | 100m | 40m |
| PUZ-ZM 125V (Y)KA2 | 100m | 40m |
| PUZ-ZM 140V (Y)KA2 | 100m | 40m |

Utilizing IoT for Improved Convenience*

*Availability of IoT functions are depending on MELCloud version.

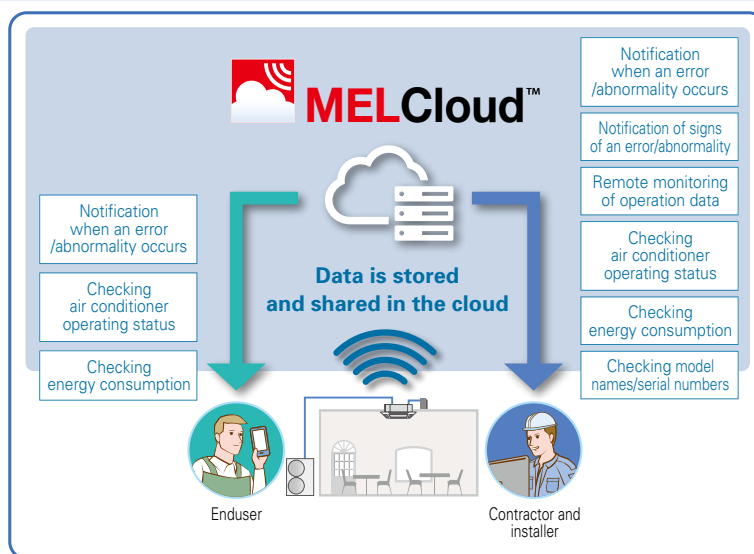
By connecting to a MAC-587IF-E Wi-Fi interface, it is possible to collect data and perform air conditioning control via MELCloud. In addition to basic functions such as turning the power on/off and setting the temperature, it is also possible to acquire data used for maintenance and inspection such as model names, serial numbers, and operation data.

[Basic Operation Functions]

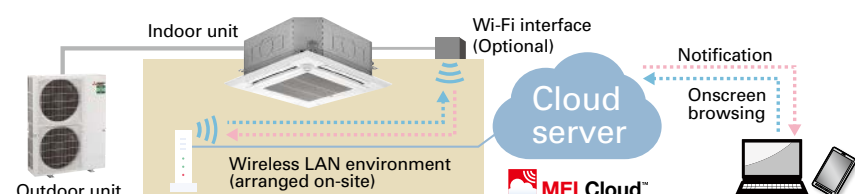
- Operation on/off
- Temperature setting
- Operation mode
- Airflow speed
- Airflow direction etc...

[Data Collection and Display]

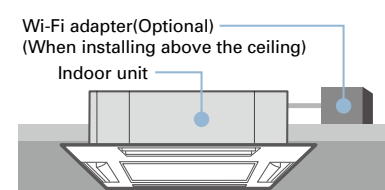
- Model name display
- Serial number display
- Collection of operation data
- Energy consumption display etc...



MELCloud System Configuration



Wi-Fi Adapter (Optional) Installation



On-Site Installation and Configuration

① Wireless LAN adapter installation

Connect the wireless LAN adapter to the indoor unit PCB and install it above the ceiling.

② Wireless LAN adapter and router connection settings

③ Wireless LAN adapter and server connection settings

Collection of operation data

All the operation data required for maintenance and inspection can be collected in a simple step. This data can then be easily checked via MELcloud. This makes it easy to check the operating status data even in cases when it is difficult to do a visual inspection. This allows you to quickly identify any system malfunctions. This function also helps to improve the quality of installation work and shortening the time required for maintenance and inspection.

Operation data that can be collected (example)

- Compressor frequency ●Compressor operating current ●Outdoor discharge temperature
- Outdoor heat exchanger temperature ●Outdoor air temperature ●Compressor shell temperature
- Sub cool ●Discharge superheat ●Indoor inlet temperature ●Indoor heat exchanger temperature
- Total compressor operating time●Compressor operation count ●Indoor filter operating time

This operation data is strange...



*1 The total compressor operating time is displayed in units of 10 hours. The compressor operation count is displayed in units of 100.
*2 Indicates the elapsed time since a filter sign reset was performed.

Demand control

It is possible to control air-conditioners to appropriately operate according to the energy supply-demand adjustment by electric power companies and each electricity rate plan of end users.

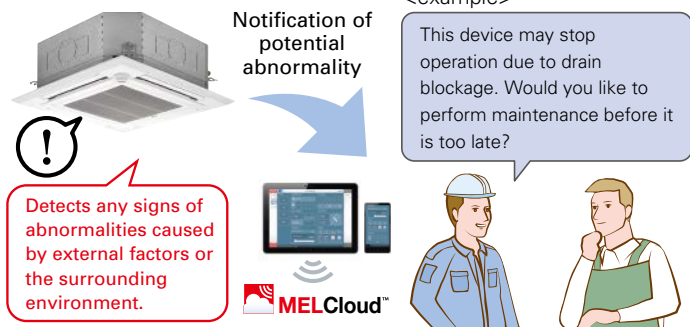
e.g. <Peak cut control> It is possible to utilize an external demand signal to reduce power consumption during peak hours. By satisfying the need for reducing peak power consumption or shifting consumption to a non-peak period, we have increased the range of options for our customers.

Notification of potential abnormality

The comprehensive analysis of operating data allows the early detection of abnormalities in small functional parts by alerting the operator of any signs of abnormal behaviour. The recognition in advance of abnormalities in each unit further improves the ease of servicing and maintenance. Since this allows a countermeasure to be implemented before the abnormality requires the unit to be completely shut down, it is an effective method for maintaining the unit in its optimum condition.

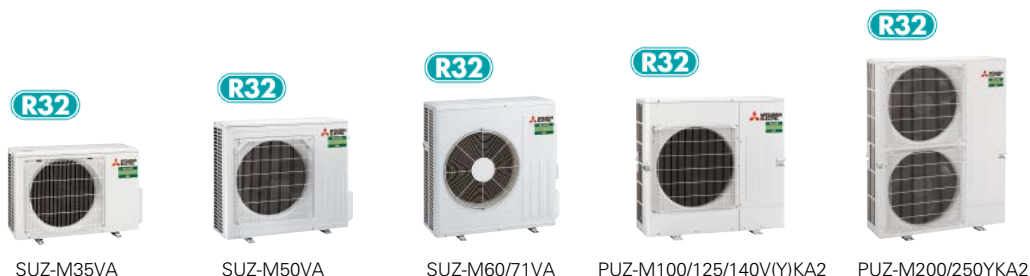
[Abnormalities That Have Their Signs Monitored]

- Filter blockage ●Drain blockage ●Refrigerant leakage
- Heat exchanger blockage etc...



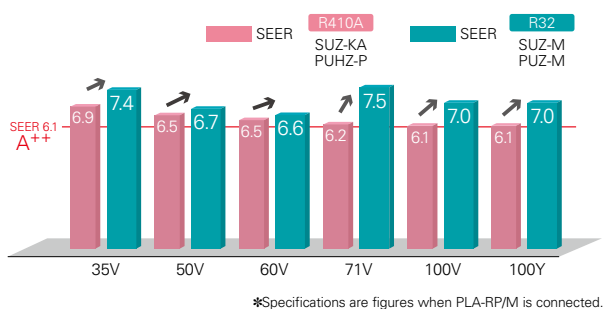
Standard Inverter SERIES

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



Improved energy efficiency

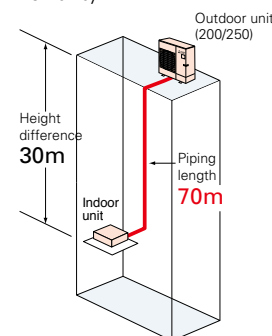
Introduction of new R32 refrigerant realises improved cooling efficiency. Rating of more than 6.6 achieved for all capacity range.



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 SUZ-KA PUHZ-P | R32 SUZ-M PUZ-M |
| 25/35 | 20m | 20m |
| 50/60/71 | 30m | 30m |
| 100 | 50m | 55m |
| 125/140 | 50m | 65m |
| 200/250 | 70m | 70m |



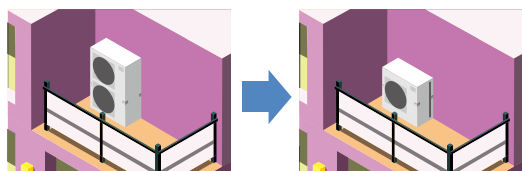
Light weight and compact size

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

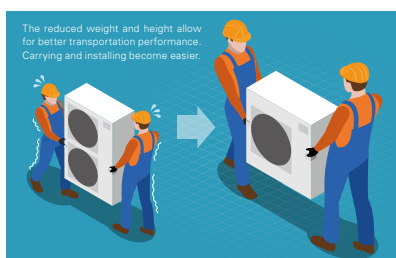
| | | |
|---|---|---|
| <p>SUZ-KA50VA6</p> <p>Height 880mm</p> <p>Weight 54kg</p> | ➔ | <p>SUZ-M50VA</p> <p>Height 714mm 18% reduction</p> <p>Weight 41kg 24% reduction</p> |
| <p>PUHZ-P140YHA2</p> <p>Height 1,350mm</p> <p>Weight 101kg</p> | ➔ | <p>PUZ-M140YKA2</p> <p>Height 981mm 27% reduction</p> <p>Weight 85kg 15% reduction</p> |

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.

2+1 Back-up rotation*

The use of a three-refrigerant air conditioning system enables you to utilize the back-up, rotation, and cut-in functions. This allows you to implement effective risk management for added peace of mind.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

Back-up Function

In the unlikely event that one of the units stops operation due to an abnormality, the standby unit immediately starts back-up operation. Being fully prepared for a failure guarantees that and operation is always available and gives you the confidence that your system will be reliable in any situation.

| | | | | |
|--------|------|----|--------------------|----|
| Main-1 | Run | }} | Abnormal condition | }} |
| Main-2 | Run | }} | Run | }} |
| Sub | Stop | | Run | }} |

Rotation Function

A single remote controller is used to operate three-refrigerant air conditioning system in a rotation pattern. Reducing the burden on the equipment allows you to maintain a longer time between maintenance and increases product life.

| | | | | | |
|--------|------|----|------|------|----|
| Main-1 | Run | }} | Stop | Run | }} |
| Main-2 | Run | }} | Run | Stop | |
| Sub | Stop | | Run | Run | }} |

Cut-in Function

If the actual room temperature greatly differs from the set temperature and two-refrigerant air conditioning system is insufficient, the standby unit starts operation to provide support.

| | | | | |
|--------|------|----|-----|----|
| Main-1 | Run | }} | | }} |
| Main-2 | Run | }} | | }} |
| Sub | Stop | | Run | }} |

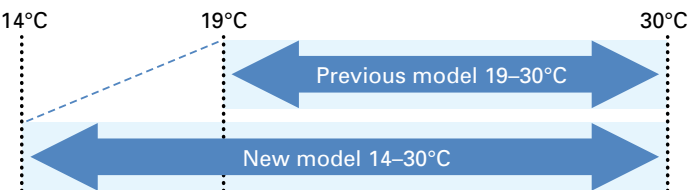
The standby unit starts operation if the actual temperature deviates significantly from the set temperature.

Extended cooling set temperature range*

In environments such as gyms where people do strenuous exercise, even if the room is cooled to an appropriate temperature, people may feel that it is hot, and they need a cooler air. To satisfy such demands, we have extended the lower limit of the cooling set temperature range from 19–30°C. to 14–30°C.

*Insulation kit (PAC-SK36HK-E) is required when indoor unit is PLA series.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.



Display of model names and serial numbers*

The model names and serial numbers of the indoor/outdoor units that are connected to the MA smart remote controller can be automatically acquired and displayed through one simple operation. This eliminates the need to directly check each unit and helps with inquiries in the case of an abnormality.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

●Model name display (example)

| |
|-----------------------------|
| Collect model names and S/N |
| OU PUZ-ZM200YKA2 |
| IU1 PLA-ZM50EA2 |
| IU2 PLA-ZM50EA2 |
| IU3 PLA-ZM50EA2 |
| IU4 PLA-ZM50EA2 |
| Collect data: ✓ |
| -Address + S/N |

●Serial number display (example)

| |
|-----------------------------|
| Collect model names and S/N |
| OU 1ZU00001 |
| IU1 1ZA00001 |
| IU2 1ZA00002 |
| IU3 1ZA00003 |
| IU4 1ZA00004 |
| Collect data: ✓ |
| -Address + Model |

Preliminary error history*

In addition to error history, the history of preliminary abnormalities can be displayed. The feature enables the unit status check during inspection and maintenance.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

●Error history (Sample)

| Error history 1/4 | | | |
|---------------------|------|------------------|--|
| Error | Unt# | dd/mm/yy | |
| E0 | 0-1 | 21/10/20 PM12:34 | |
| E0 | 0-1 | 20/12/20 AM 1:23 | |
| E0 | 0-1 | 20/11/20 PM10:55 | |
| E0 | 0-1 | 20/10/20 PM12:01 | |
| Error history menu: | | | |
| ▼ Page ▲ | | Delete | |

●Preliminary error history (Sample)

| Preliminary error hist. 1/8 | | | |
|-----------------------------|------|------------------|--|
| Error | Unt# | dd/mm/yy | |
| E0 | 0-1 | 21/10/20 PM12:34 | |
| E0 | 0-1 | 20/12/20 AM 1:23 | |
| E0 | 0-1 | 20/11/20 PM10:55 | |
| E0 | 0-1 | 20/10/20 PM12:01 | |
| Error history menu: | | | |
| ▼ Page ▲ | | Delete | |

Display of power consumption*

It is possible to measure, acquire, and display the amount of energy used by each air conditioning system.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

< Data Collection Period >

Time data: Every 30 minutes over the past month

Monthly/daily data: Monthly over the past 14 months

Energy consumption values are calculated from estimated power consumption values according to the operating conditions. They may vary from the actual power consumption values. Please note that the power consumption of optional parts is not included except in the case of optional parts that have their power supplied directly by the outdoor unit.

●Every 30 minutes (example)

| Energy data | | | |
|---------------|---------------|----------|--|
| 2019- 1- | 1234.5kWh | 1/6 | |
| 0:30 123.4kWh | 2:30 123.4kWh | | |
| 1:00 123.4kWh | 3:00 123.4kWh | | |
| 1:30 123.4kWh | 3:30 123.4kWh | | |
| 2:00 123.4kWh | 4:00 123.4kWh | | |
| Return: | | | |
| - Date + | | ▼ Page ▲ | |

●Daily (example)

| Energy data | | | |
|--------------|--------------|-----|--|
| 2019- 1 | 123456.7kWh | 1/4 | |
| 31 1234.5kWh | 27 1234.5kWh | | |
| 30 1234.5kWh | 26 1234.5kWh | | |
| 29 1234.5kWh | 25 1234.5kWh | | |
| 28 1234.5kWh | 24 1234.5kWh | | |
| Return: | | | |
| ▼ Page ▲ | | | |

●Monthly (example)

| Energy data | | | |
|------------------|-------------|-----|--|
| ▶2019- 1 | 123456.7kWh | 1/3 | |
| 2018- 12 | 123456.7kWh | | |
| 2018- 11 | 123456.7kWh | | |
| 2018- 10 | 123456.7kWh | | |
| 2018- 9 | 123456.7kWh | | |
| View daily data: | | | |
| ▼ Cursor ▲ | | | |

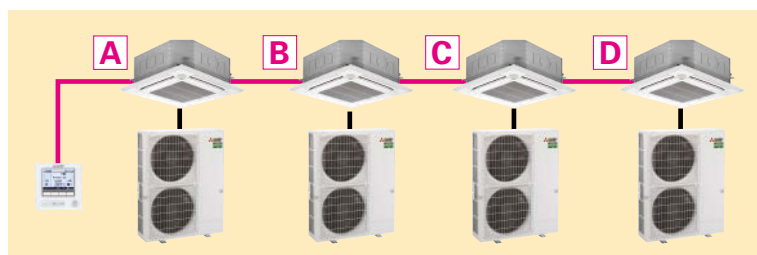
Improved defrosting performance*

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

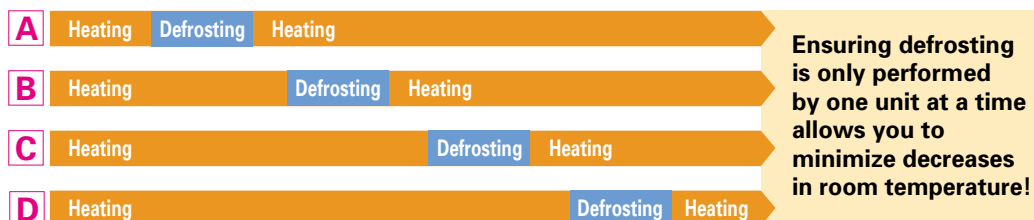
Avoiding Simultaneous Defrosting

When each of multiple units is in operation for heating in the same space, these may start defrosting at the same time, resulting in a drop in the room temperature. Therefore, we have developed a new function that controls up to four-refrigerant air conditioning system to avoid simultaneous defrosting. By ensuring that defrosting is only performed by one unit at a time, it is possible to minimize any decrease in room temperature.

Example System Configuration Four sets controlled by a single remote controller



■When All Sets Are Controlled Together



Utilizing IoT for Improved Convenience*

*Availability of IoT functions are depending on MELCloud version.

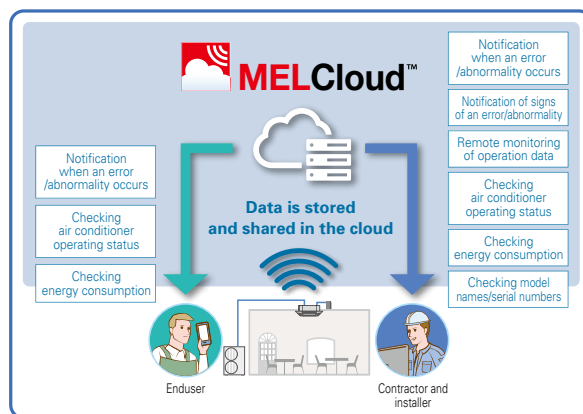
By connecting to a MAC-587IF-E Wi-Fi interface, it is possible to collect data and perform air conditioning control via MELCloud. In addition to basic functions such as turning the power on/off and setting the temperature, it is also possible to acquire data used for maintenance and inspection such as model names, serial numbers, and operation data.

[Basic Operation Functions]

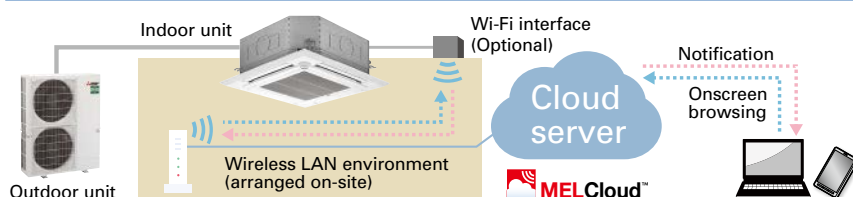
- Operation on/off ●Temperature setting
- Operation mode ●Airflow speed
- Airflow direction etc...

[Data Collection and Display]

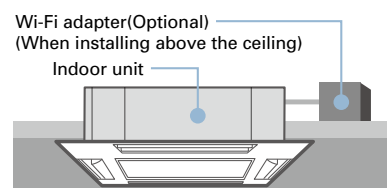
- Model name display ●Serial number display
- Collection of operation data
- Energy consumption display etc...



MELCloud System Configuration



Wi-Fi Adapter (Optional) Installation



On-Site Installation and Configuration

①Wireless LAN adapter installation

Connect the wireless LAN adapter to the indoor unit PCB and install it above the ceiling.

②Wireless LAN adapter and router connection settings

③Wireless LAN adapter and server connection settings

Collection of operation data

All the operation data required for maintenance and inspection can be collected in a simple step. This data can then be easily checked via MELcloud. This makes it easy to check the operating status data even in cases when it is difficult to do a visual inspection. This allows you to quickly identify any system malfunctions. This function also helps to improve the quality of installation work and shortening the time required for maintenance and inspection.

Operation data that can be collected (example)

- Compressor frequency ●Compressor operating current ●Outdoor discharge temperature
- Outdoor heat exchanger temperature ●Outdoor air temperature ●Compressor shell temperature
- Sub cool ●Discharge superheat ●Indoor inlet temperature ●Indoor heat exchanger temperature
- Total compressor operating time●Compressor operation count ●Indoor filter operating time

This operation data is strange...



*1 The total compressor operating time is displayed in units of 10 hours. The compressor operation count is displayed in units of 100.
*2 Indicates the elapsed time since a filter sign reset was performed.

Demand control

It is possible to control air-conditioners to appropriately operate according to the energy supply-demand adjustment by electric power companies and each electricity rate plan of end users.

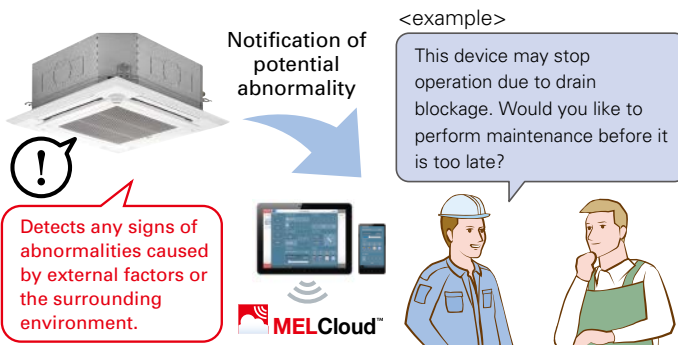
e.g. <Peak cut control> It is possible to utilize an external demand signal to reduce power consumption during peak hours. By satisfying the need for reducing peak power consumption or shifting consumption to a non-peak period, we have increased the range of options for our customers.

Notification of potential abnormality

The comprehensive analysis of operating data allows the early detection of abnormalities in small functional parts by alerting the operator of any signs of abnormal behaviour. The recognition in advance of abnormalities in each unit further improves the ease of servicing and maintenance. Since this allows a countermeasure to be implemented before the abnormality requires the unit to be completely shut down, it is an effective method for maintaining the unit in its optimum condition.

[Abnormalities That Have Their Signs Monitored]

- Filter blockage ●Drain blockage ●Refrigerant leakage
- Heat exchanger blockage etc...



PLA SERIES

PLA-ZM35/50/60/71/100/125/140EA2

PLA-M35/50/60/71/100/125/140EA2

A complete line-up including deluxe units that offer added energy savings. The incorporation of "3D total flow" and the "3D i-see Sensor" enhances airflow distribution control, achieving an enhanced level of comfort throughout the room. The synergy of higher energy efficiency and more comfortable room environment results in the utmost user satisfaction.



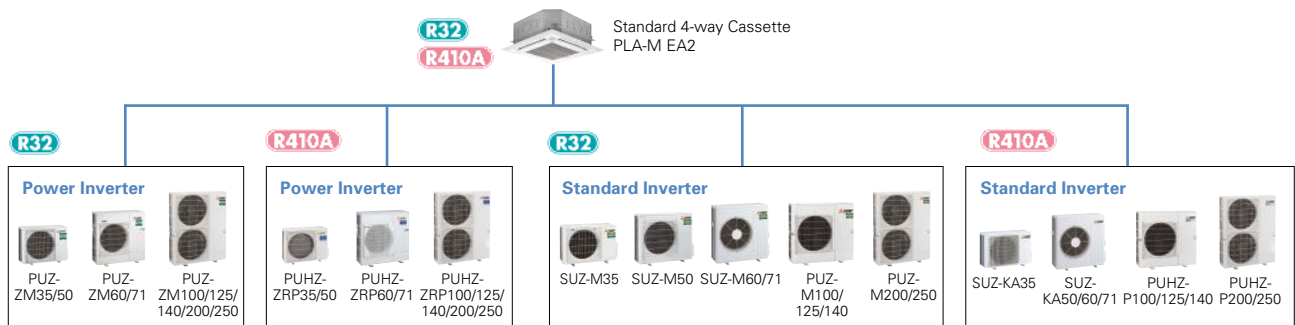
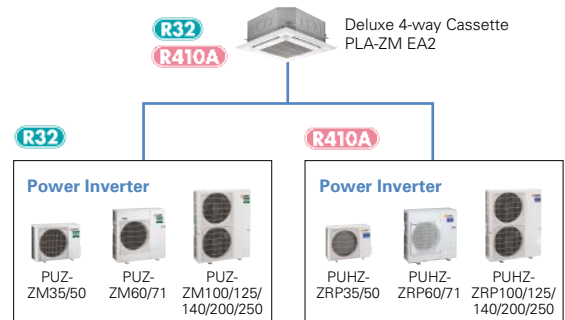
Deluxe 4-way Cassette Line-up

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-M), deluxe models provide additional energy savings, contributing to a significant reduction in electricity costs.

Line-up

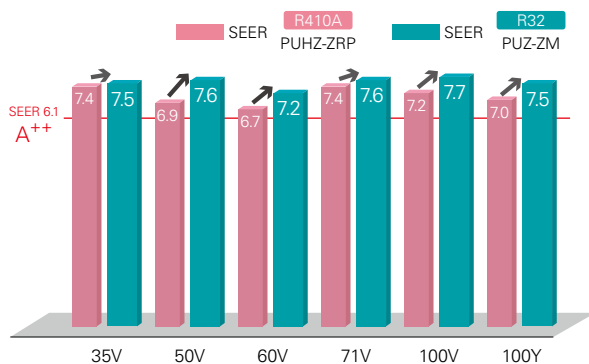
| Series | Model | 35 | 50 | 60 | 71 | 100 | 125 | 140 |
|----------------------------|--|----|----|----|----|-----|-----|-----|
| R32 R410A | Deluxe 4-way Cassette (PLA-ZM) | ● | ● | ● | ● | ● | ● | ● |
| R32 R410A | Standard 4-way Cassette (PLA-M) | ● | ● | ● | ● | ● | ● | ● |

Indoor/Outdoor Unit Combinations



Industry-leading energy efficiency

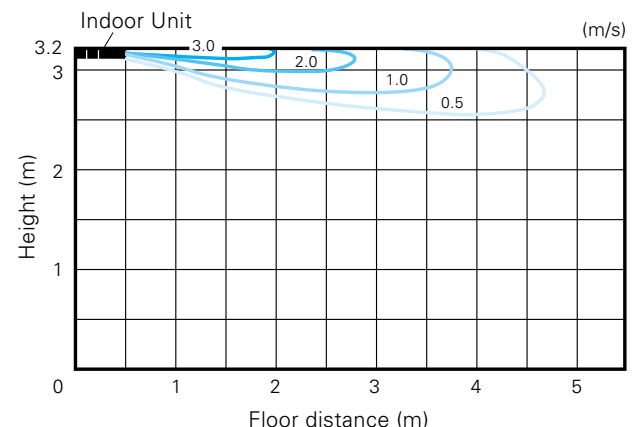
Introduction of new R32 refrigerant realises improved cooling efficiency. Rating of more than 7.0 achieved for all capacity range. Introduction of new R32 refrigerant reduces energy consumption and realises energy savings.



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-ZM140EA2
Ceiling height: 3.2m
Mode: Cooling



Automatic Grille Lowering Function (PLP-6EAJ, PLP-6EAJE)*

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.

*Auto elevation panel(PLP-6EAJ,PLP-6EAJE) cannot be used with Plasma Quad Connect(PAC-SK51FT-E) and Insulation kit (PAC-SK36HK-E).



Grille Elevation Remote Controller
(comes with the automatic elevation panel)



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.

■ Previous model (B Series)



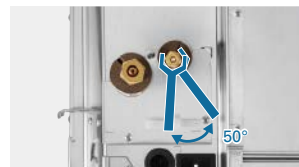
■ New model (E Series)



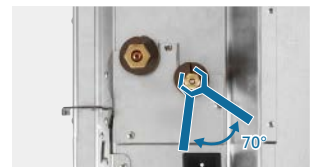
Increased space for plumbing work

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

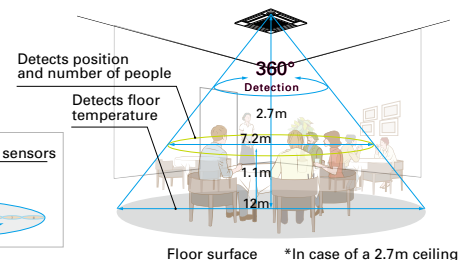
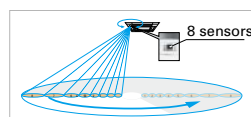
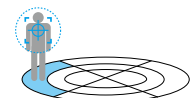
Once the position of a person is detected, the duct angle of the vane is automatically adjusted in that direction. Each vane can be independently set to "block wind" or "not block wind" according to taste.



Detects number of people



Detects people's position



Detects number of people (3D i-see Sensor)

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.

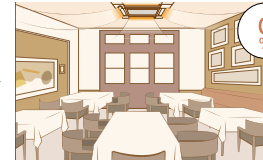
* When MA Remote Controller is used to control multiple refrigerant systems, "No occupancy Auto-Off mode" cannot be used.

Room occupancy energy save mode



1°C power savings

No occupancy energy save mode



2°C power savings

No occupancy Auto-Off mode



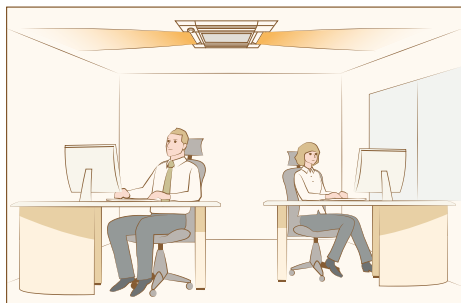
Auto-Off

*PAR-41MAA is required for each setting

Detects people's position (3D i-see Sensor)

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-41MAA or PAR-SL101A-E is required for each setting.

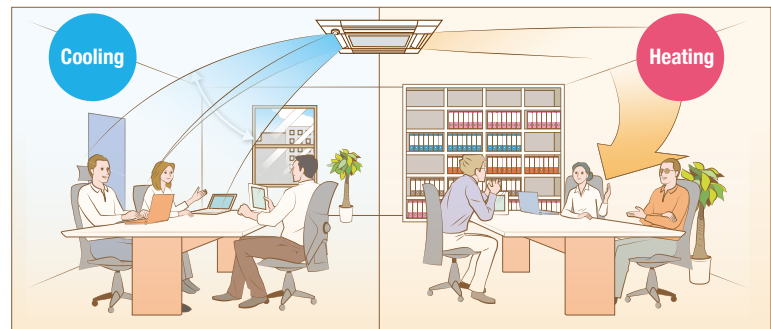
Seasonal airflow*

<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.

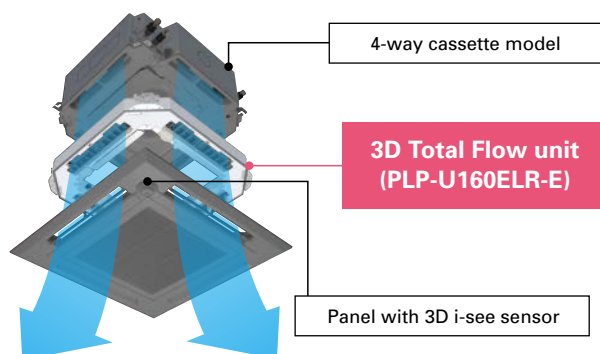


*PAR-41MAA is required for each setting.

3D Total Flow*

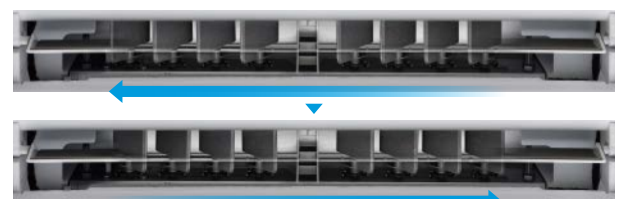
3D Total Flow is an innovative function. Our original 3D i-see sensor detects the temperature of the floor, and then the newly installed 3D Total Flow unit automatically controls the airflow in the left/right directions in a smart manner.

*3D Total Flow unit (PLP-U160ELR-E) cannot be used with Plasma Quad Connect (PAC-SK51FT-E), Insulation kit (PAC-SK36HK-E), Shutter Plate (PAC-SJ37SP-E), Multi functional casement (PAC-SJ41TM-E) and High-efficiency filter element (PAC-SH59KF-E)

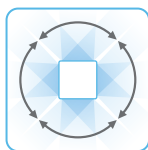


Horizontal louver (3D Total Flow)

In addition to the ability of conventional models to control airflow in the vertical direction, the adoption of a horizontal louver unit allows each outlet to blow air over a horizontal angle of 90 degrees. The combination of four outlets delivers 360° airflow control around the entire circumference. This now makes it possible to blow air in diagonal directions which eliminates temperature irregularities.



louvers can provide horizontal airflow control.



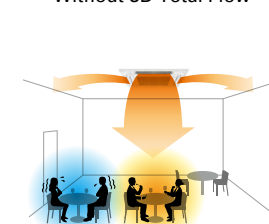
Swinging

Since airflow can be controlled in the horizontal and vertical directions, you can efficiently make the entire room comfortable.

Horizontal, vertical, and diagonal airflow delivered to every corner

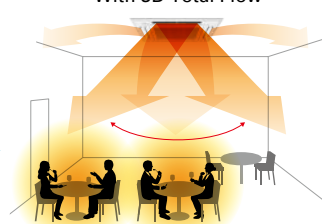
The combination of the vertical vanes with the horizontal louver unit makes it possible to direct airflow in any direction. This quickly makes the entire room comfortable, even when diagonal airflow is necessary.

Without 3D Total Flow

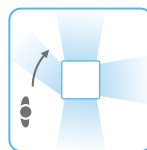


There are some areas that cannot receive air through vertical airflow control.

With 3D Total Flow



Swinging in both the vertical and horizontal directions provides a pleasant breeze throughout the room.



Indirect mode

When set to "Indirect" mode, the system detects the position of a person and maintains comfort while diverting airflow away from them.

Prevents direct airflow and keeps you comfortable

This function prevents people from being directly exposed to airflow while still ensuring comfort. The "Indirect" mode of 3D Total Flow keeps the downward airflow while avoiding direct blow to people, delivering a pleasant warmth.

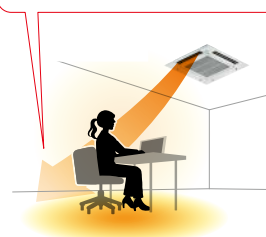
Without 3D Total Flow

Models that are only equipped with vertical vanes need to swing the airflow upward to avoid people. This makes it difficult to warm up the surrounding space.

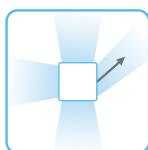


With 3D Total Flow

Now, it is easier to warm the surrounding space while still ensuring people do not receive direct blow.



*If people are present throughout the entire airflow range of an outlet, the airflow is shifted horizontally to avoid direct airflow.



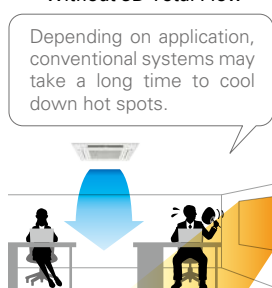
Targeting

The system can detect spaces with uneven temperatures and target them by sending air even if they are in a diagonal direction.

Detects and targets areas with uneven temperatures

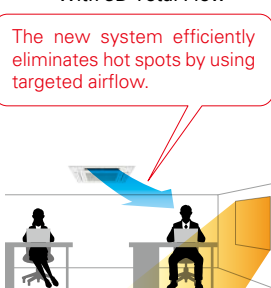
3D i-see sensor detects areas with uneven temperatures, even if they are caused by the installation orientation of the air conditioner or the influence of strong sunlight. Efficient air conditioning is possible thanks to the ability to send focused airflow to such areas, even those in a diagonal position.

Without 3D Total Flow

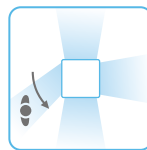


Depending on application, conventional systems may take a long time to cool down hot spots.

With 3D Total Flow



The new system efficiently eliminates hot spots by using targeted airflow.



Direct mode

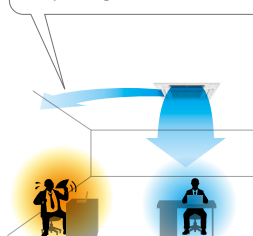
When set to "Direct" mode, the system detects the position and diverts airflow towards wherever they are located.

Delivers airflow even in diagonal directions

You can freely turn on "Direct" mode depending on personal preference. This allows for air conditioning in diagonal directions which was difficult for models that could only swing the airflow up and down. This feature is perfect for when you come back home on a hot day.

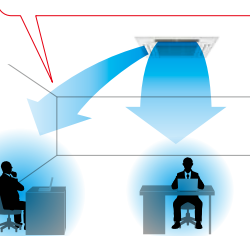
Without 3D Total Flow

It is difficult to direct airflow in diagonal directions when only using vertical vanes.



With 3D Total Flow

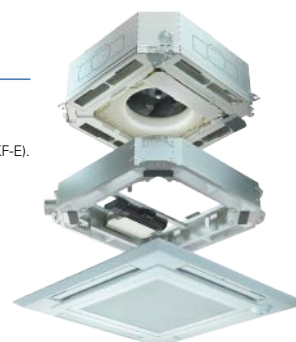
Ensures comfort even when you are located diagonally from an outlet.



Connectable to *Plasma Quad Connect**

The optional Plasma Quad Connect PAC-SK51FT-E can be installed on the indoor units.

*Plasma Quad Connect(PAC-SK51FT-E) cannot be used with PLP-U160ELR-E(3D Total Flow unit), Insulation kit (PAC-SK36HK-E), Auto elevation panel(PLP-6EAJ, PLP-6EAJE), Multi functional casement(PAC-SJ41TM-E) and High-efficiency filter element(PAC-SH59KF-E).



SERIES SELECTION

Power Inverter Series

Indoor Unit

R32
R410A



Panel PLA-ZM35/50/60/71/100/125/140EA2

| Panel | With Signal Receiver | With 3D i-see Sensor | With Wireless Remote Controller | With Auto Elevation |
|-------------|----------------------|----------------------|---------------------------------|---------------------|
| PLP-6EA | | | | |
| PLP-6EAL | ✓ | | | |
| PLP-6EAE | | ✓ | | |
| PLP-6EALM2 | ✓ | ✓ | | |
| PLP-6EAJ* | ✓ | | | ✓ |
| PLP-6EAJE* | ✓ | ✓ | | ✓ |
| PLP-6EALM2 | ✓ | ✓ | ✓ | |
| PLP-6EALME2 | ✓ | ✓ | ✓ | |

*Auto elevation panel(PLP-6EAJ, PLP-6EAJE) cannot be used with Plasma Quad Connect(PAC-SK51FT-E) and Insulation kit (PAC-SK36HK-E).

Outdoor Unit

R32

For Single



PUZ-ZM35/50



PUZ-ZM60/71



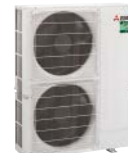
PUZ-ZM100/125/140

R32

For Multi
(Twin/Triple/Quadruple)



PUZ-ZM71



PUZ-ZM100/125/140/200/250

3D Total Flow Unit

PLP-U160ELR-E
(optional)



Remote Controller



Optional



Optional



Optional



* Enclosed in
PLP-6EALM2/PLP-6EALME2

PLA-ZM EA2 Indoor Unit Combinations Indoor unit combinations shown below are possible.

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|-----------------------|------|------|------|-------|-------|-------|-----|-----|--------------|------|------|--------------|-------|-------|--------------|------|------|---------------|------|
| | | 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 (PUZ-ZM) | | 35x1 | 50x1 | 60x1 | 71x1 | 100x1 | 125x1 | 140x1 | — | — | 35x2 | 50x2 | 60x2 | 71x2 | 100x2 | 125x2 | 50x3 | 60x3 | 71x3 | 50x4 | 60x4 |
| Distribution Pipe | | — | — | — | — | — | — | — | — | — | MSDD-50TR2-E | | | MSDD-50WR2-E | | | MSDT-111R3-E | | | MSDF-1111R2-E | |

SERIES SELECTION

Standard Inverter Series

Indoor Unit

R32
R410A



Panel PLA-M35/50/60/71/100/125/140EA2

| Panel | With Signal Receiver | With 3D i-see Sensor | With Wireless Remote Controller | With Auto Elevation |
|-------------|----------------------|----------------------|---------------------------------|---------------------|
| PLP-6EA | | | | |
| PLP-6EAL | ✓ | | | |
| PLP-6EAE | | ✓ | | |
| PLP-6EALM2 | ✓ | ✓ | | |
| PLP-6EAJ* | ✓ | | | ✓ |
| PLP-6EAJE* | ✓ | ✓ | | ✓ |
| PLP-6EALM2 | ✓ | ✓ | ✓ | |
| PLP-6EALME2 | ✓ | ✓ | ✓ | |

*Auto elevation panel(PLP-6EAJ, PLP-6EAJE) cannot be used with Plasma Quad Connect(PAC-SK51FT-E) and Insulation kit (PAC-SK36HK-E).

Outdoor Unit

R32

For Single



SUZ-M35



SUZ-M50



SUZ-M60/71



PUZ-M100/125/140

R32

For Multi
(Twin/Triple/Quadruple)



PUZ-M100/125/140



PUZ-M200/250

3D Total Flow Unit

PLP-U160ELR-E*
(optional)

*SUZ combination is not available.



Remote Controller



Optional



Optional



Optional



* Enclosed in
PLP-6EALM2/PLP-6EALME2

PLA-M EA2 Indoor Unit Combinations Indoor unit combinations shown below are possible.

| Indoor Unit Combination | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|---------------------------------|-----------------------|------|------|------|-------|-------|-------|-----|-----|----------|--------------|------|------|--------------|-------|--------------|------|------|---------------|------|
| | 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 |
| Standard Inverter (SUZ & PUZ-M) | 35x1 | 50x1 | 60x1 | 71x1 | 100x1 | 125x1 | 140x1 | — | — | — | 50x2 | 60x2 | 71x2 | 100x2 | 125x2 | 50x3 | 60x3 | 71x3 | 50x4 | 60x4 |
| Distribution Pipe | — | — | — | — | — | — | — | — | — | — | MSDD-50TR2-E | | | MSDD-50WR2-E | | MSDT-111R3-E | | | MSDF-1111R2-E | |

PLA-ZM SERIES



| Type | | | Inverter Heat Pump | | | | | | | | | | | | |
|--------------------------------------|--|---------------------------------|---|--------------|--------------|--------------|---------------|---------------|---------------|------------------|---------------|---------------|------------------|--|--|
| Indoor Unit | | | PLA-ZM35EA2 | PLA-ZM50EA2 | PLA-ZM60EA2 | PLA-ZM71EA2 | PLA-ZM100EA2 | PLA-ZM100EA2 | PLA-ZM125EA2 | PLA-ZM125EA2 | PLA-ZM140EA2 | PLA-ZM140EA2 | | | |
| Outdoor Unit | | | PUZ-ZM35VKA2 | PUZ-ZM50VKA2 | PUZ-ZM60VHA2 | PUZ-ZM71VHA2 | PUZ-ZM100VKA2 | PUZ-ZM100YKA2 | PUZ-ZM125VKA2 | PUZ-ZM125YKA2 | PUZ-ZM140VKA2 | PUZ-ZM140YKA2 | | | |
| Refrigerant ^(*) | | | R32 | | | | | | | | | | | | |
| Power Supply | | | Outdoor power supply | | | | | | | | | | | | |
| Source | | | YKA-VHA-230/Single/50, YKA-400/Three/50 | | | | | | | | | | | | |
| Outdoor(V/Phase/Hz) | | | | | | | | | | | | | | | |
| 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 | 0.705 | 1.106 | 1.452 | 1.651 | 2.159 | 2.159 | 3.378 | 3.378 | 3.722 | 3.722 | | |
| | EER | | | 5.10 | 4.52 | 4.20 | 4.30 | 4.40 | 4.40 | 3.70 | 3.70 | 3.60 | 3.60 | | |
| | Design load | | kW | 3.6 | 5.0 | 6.1 | 7.1 | 9.5 | 9.5 | — | — | — | — | | |
| | Annual electricity consumption ^{(*)2} | | kWh/a | 168 | 230 | 296 | 327 | 431 | 442 | — | — | — | — | | |
| | SEER ^{(*)4} | | | 7.5 | 7.6 | 7.2 | 7.6 | 7.7 | 7.5 | — | — | — | — | | |
| | Energy efficiency class | | A++ | 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 | | |
| | | 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 | | |
| | 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 | | |
| | 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) | 3.4 (-20°C) | 5.8 (-20°C) | 5.8 (-20°C) | — | — | — | — | | |
| | Back up heating capacity | | kW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | — | — | — | — | | |
| | Annual electricity consumption ^{(*)2} | | kWh/a | 744 | 1086 | 1339 | 1371 | 2271 | 2272 | — | — | — | — | | |
| SCOP ^{(*)4} | | | 4.7 | 4.9 | 4.6 | 4.8 | 4.8 | 4.8 | — | — | — | — | | | |
| | Energy efficiency class | | A++ | A++ | A++ | A++ | A++ | A++ | — | — | — | — | | | |
| Operating Current(Max) | | | A | 13.2 | 13.2 | 19.2 | 19.3 | 20.5 | 8.5 | 27.0 | 9.5 | 30.7 | 12.5 | | |
| Indoor Unit | Input (cooling / Heating) | Rated | kW | 0.03 / 0.03 | 0.03 / 0.03 | 0.03 / 0.03 | 0.05 / 0.05 | 0.07 / 0.07 | 0.07 / 0.07 | 0.08 / 0.08 | 0.08 / 0.08 | 0.10 / 0.10 | 0.10 / 0.10 | | |
| | Operating Current(Max) | | A | 0.21 | 0.22 | 0.22 | 0.34 | 0.47 | 0.47 | 0.52 | 0.52 | 0.66 | 0.66 | | |
| | Dimensions | H*W*D | mm | 258-840-840 | | | 420-950-950 | | | 298-840-840 | | | 420-950-950 | | |
| | Weight | | kg | 21 <5> | 21 <5> | 21 <5> | 24 <5> | 26 <5> | 26 <5> | 26 <5> | 26 <5> | 26 <5> | 26 <5> | | |
| | Air Volume (Lo-Mi2-Mi1-Hi) | | 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 (Lo-Mi2-Mi1-Hi) (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 | | |
| | Dimensions | H*W*D | mm | 630-809-300 | | | 630-809-300 | | | 943-950-330(+25) | | | 943-950-330(+25) | | |
| | Weight | | kg | 46 | 46 | 67 | 67 | 105 | 111 | 105 | 114 | 105 | 118 | | |
| | 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 | 50 | | |
| | Heating | dB(A) | 46 | 46 | 49 | 49 | 51 | 51 | 52 | 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 | 13 | 19 | 19 | 20 | 8 | 26.5 | 9 | 30 | 11.8 | | |
| | Breaker Size | | A | 16 | 16 | 25 | 25 | 32 | 16 | 32 | 16 | 40 | 16 | | |
| | Ext.Piping | | | | | | | | | | | | | | |
| | 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 | | |
| 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 | | | |
| Guaranteed Operating Range (Outdoor) | | | Cooling ^{(*)3} | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | | |
| | | | Heating | °C | -11 ~ +21 | -11 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | | |

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

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units



PLA-M SERIES

| Type | | | | Inverter Heat Pump | | | | | | | | | | |
|----------------------------|---|--|-----------------------------------|-------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------------------|-------------------|-------------------|-------------------|
| Indoor Unit | | | | PLA-M35EA2 | PLA-M50EA2 | PLA-M60EA2 | PLA-M71EA2 | PLA-M100EA2 | PLA-M100EA2 | PLA-M125EA2 | PLA-M125EA2 | PLA-M140EA2 | PLA-M140EA2 | |
| Outdoor Unit | | | | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA | SUZ-M71VA | PUZ-M100KA2 | PUZ-M100KA2 | PUZ-M125KA2 | PUZ-M125KA2 | PUZ-M140KA2 | PUZ-M140KA2 | |
| Refrigerant ⁽¹⁾ | | | | R32 | | | | | | | | | | |
| Power Supply | Source | Outdoor power supply | | | | | | | | | | | | |
| | Outdoor(V/Phase/Hz) | VA-VKA:230/Single/50, YKA:400/Three/50 | | | | | | | | | | | | |
| Cooling | Capacity | Rated | kW | 3.6 | 5.5 | 6.1 | 7.1 | 9.5 | 9.5 | 12.1 | 12.1 | 13.4 | 13.4 | |
| | | 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 ~ 14.1 | |
| | Total Input | Rated | kW | 0.900 | 1.617 | 1.848 | 1.918 | 2.714 | 2.714 | 4.019 | 4.019 | 4.962 | 4.962 | |
| | EER | | | 4.00 | 3.40 | 3.30 | 3.70 | 3.50 | 3.50 | 3.01 | 3.01 | 2.70 | 2.70 | |
| | Design load | | kW | 3.6 | 5.5 | 6.1 | 7.1 | 9.5 | 9.5 | — | — | — | — | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 170 | 285 | 320 | 331 | 475 | 475 | — | — | — | — | |
| | SEER ⁽²⁾ | | | 7.4 | 6.7 | 6.6 | 7.5 | 7.0 | 7.0 | — | — | — | — | |
| Heating | Capacity | Rated | kV | Energy efficiency class | | | | | | | | | | |
| | | | | A++ | A++ | A++ | A++ | A++ | A++ | — | — | — | — | |
| | | Min-Max | kV | 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 | |
| | Total Input | Rated | kV | 0.976 | 1.734 | 1.842 | 2.216 | 3.018 | 3.018 | 3.638 | 3.638 | 4.398 | 4.398 | |
| | COP | | | 4.20 | 3.46 | 3.80 | 3.61 | 3.71 | 3.71 | 3.71 | 3.71 | 3.41 | 3.41 | |
| | Design load | | kW | 2.6 | 4.3 | 4.6 | 5.8 | 8.0 | 8.0 | — | — | — | — | |
| | 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) | — | — | — | — | |
| | | 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) | — | — | — | — | |
| | | 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) | — | — | — | — | |
| | Back up heating capacity | | kW | 0.3 | 0.5 | 0.5 | 0.6 | 2.0 | 2.0 | — | — | — | — | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 774 | 1458 | 1459 | 1798 | 2406 | 2406 | — | — | — | — | |
| SCOP ⁽²⁾ | | | 4.7 | 4.1 | 4.4 | 4.5 | 4.6 | 4.6 | — | — | — | — | | |
| Operating Current(Max) | | A | Energy efficiency class | | | | | | | | | | | |
| | | | A++ | A+ | A+ | A+ | A++ | A++ | — | — | — | — | | |
| Indoor Unit | Input [cooling / Heating] | Rated | kV | 0.03 / 0.03 | 0.03 / 0.03 | 0.03 / 0.03 | 0.04 / 0.04 | 0.07 / 0.07 | 0.07 / 0.07 | 0.10 / 0.10 | 0.10 / 0.10 | 0.10 / 0.10 | 0.10 / 0.10 | |
| | | | A | 0.20 | 0.22 | 0.24 | 0.27 | 0.46 | 0.46 | 0.66 | 0.66 | 0.66 | 0.66 | |
| | | | Dimensions | H*W*D | 258-840-840 <40-950-950> | | | | | | 298-840-840 <40-950-950> | | | |
| | | | Weight | 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-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 | 24-26-29-32 |
| | | | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | 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 | 33-37-41-44 | 33-37-41-44 | 36-39-42-44 | 36-39-42-44 |
| Outdoor Unit | Sound Level (PWL) | | dB(A) | 51 | 54 | 54 | 56 | 61 | 61 | 65 | 65 | 65 | 65 | |
| | | | | Dimensions | H*W*D | mm | 550-800-285 | 714-800-285 | 880-840-330 | 880-840-330 | 981-1050-330(+40) | 981-1050-330(+40) | 981-1050-330(+40) | 981-1050-330(+40) |
| | Weight | 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 | 79 | 86 | 86 | 86 | 86 | |
| | Heating | m³/min | 32.7 | 43.7 | 50.1 | 50.1 | 79 | 79 | 92 | 92 | 92 | 92 | | |
| | 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) | Cooling | dB(A) | 59 | 64 | 65 | 66 | 70 | 70 | 72 | 72 | 73 | 73 | |
| | Operating Current(Max) | | A | 8.5 | 13.5 | 14.8 | 14.8 | 20 | 11.5 | 26.5 | 11.5 | 30 | 11.5 | |
| | Breaker Size | | A | 10 | 20 | 20 | 20 | 32 | 16 | 32 | 16 | 40 | 16 | |
| Ext.Piping | Liquid/Gas | Diameter ⁽³⁾ | 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 | |
| | | Max.Length | m | 20 | 30 | 30 | 30 | 55 | 55 | 65 | 65 | 65 | 65 | |
| | | Max.Height | m | 12 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | |
| | | Guaranteed Operating Range (Outdoor) | Cooling ⁽³⁾ | °C | -10 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heating | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | | |

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

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PLA-M SERIES

POWER INVERTER



| Type | | | Inverter Heat Pump | | | | | | | | | | | |
|--------------------------------------|---|---------------------------------|---|--------------|--------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|
| Indoor Unit | | | PLA-M35EA2 | PLA-M50EA2 | PLA-M60EA2 | PLA-M71EA2 | PLA-M100EA2 | PLA-M100EA2 | PLA-M125EA2 | PLA-M125EA2 | PLA-M140EA2 | PLA-M140EA2 | | |
| Outdoor Unit | | | PUZ-ZM35VKA2 | PUZ-ZM50VKA2 | PUZ-ZM60VHA2 | PUZ-ZM71VHA2 | PUZ-ZM100VKA2 | PUZ-ZM100VKA2 | PUZ-ZM125VKA2 | PUZ-ZM125VKA2 | PUZ-ZM140VKA2 | PUZ-ZM140VKA2 | | |
| Refrigerant ⁽¹⁾ | | | R32 | | | | | | | | | | | |
| Power Supply | Source | | Outdoor power supply | | | | | | | | | | | |
| | Outdoor(V/Phase/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 - 15.0 | |
| | Total Input | Rated | kW | 0.751 | 1.175 | 1.523 | 1.716 | 2.209 | 2.209 | 3.396 | 3.396 | 3.746 | 3.746 | |
| | EER | | | 4.79 | 4.25 | 4.00 | 4.14 | 4.30 | 4.30 | 3.68 | 3.68 | 3.58 | 3.58 | |
| | Design load | | kW | 3.6 | 5.0 | 6.1 | 7.1 | 9.5 | 9.5 | — | — | — | — | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 172 | 234 | 301 | 336 | 437 | 448 | — | — | — | — | |
| | SEER ⁽⁴⁾ | | | 7.3 | 7.4 | 7.1 | 7.4 | 7.6 | 7.4 | — | — | — | — | |
| Heating (Average Season) | Energy efficiency class | | | A++ | A++ | A++ | A++ | A++ | A++ | — | — | — | — | |
| | Capacity | Rated | kW | 4.1 | 6.0 | 7.0 | 8.0 | 11.2 | 11.2 | 14.0 | 14.0 | 16.0 | 16.0 | |
| | | 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 | |
| | Total Input | Rated | kW | 0.890 | 1.581 | 1.863 | 2.014 | 2.685 | 2.685 | 3.773 | 3.773 | 4.365 | 4.365 | |
| | COP | | | 4.61 | 3.79 | 3.76 | 3.97 | 4.17 | 4.17 | 3.71 | 3.71 | 3.67 | 3.67 | |
| | 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) | 3.4 (-20°C) | 5.8 (-20°C) | 5.8 (-20°C) | — | — | — | — | |
| | Back up heating capacity | | kW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | — | — | — | — | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 798 | 1187 | 1422 | 1429 | 2496 | 2497 | — | — | — | — | |
| | SCOP ⁽⁴⁾ | | | 4.3 | 4.4 | 4.3 | 4.6 | 4.3 | 4.3 | — | — | — | — | |
| Energy efficiency class | | | A+ | A+ | A+ | A++ | A+ | A+ | — | — | — | — | | |
| Operating Current(Max) | | A | 13.2 | 13.2 | 19.2 | 19.3 | 20.5 | 8.5 | 27.2 | 9.7 | 30.7 | 12.5 | | |
| Indoor Unit | Input [cooling / Heating] | Rated | kW | 0.03 / 0.03 | 0.03 / 0.03 | 0.03 / 0.03 | 0.04 / 0.04 | 0.07 / 0.07 | 0.07 / 0.07 | 0.10 / 0.10 | 0.10 / 0.10 | 0.10 / 0.10 | 0.10 / 0.10 | |
| | Operating Current(Max) | | A | 0.20 | 0.22 | 0.24 | 0.27 | 0.46 | 0.46 | 0.66 | 0.66 | 0.66 | 0.66 | |
| | Dimensions | H*W*D | mm | | 258-840-840 | <40-950-950> | | | | 298-840-840 | <40-950-950> | | | |
| | Weight | | kg | 19 <5> | 19 <5> | 21 <5> | 21 <5> | 24 <5> | 24 <5> | 26 <5> | 26 <5> | 26 <5> | 26 <5> | |
| | Air Volume (Lo-Mid-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 | 24-26-29-32 | |
| | Sound Level (Lo-Mid-Hi) (SPL) | | 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 | 33-37-41-44 | 33-37-41-44 | 36-39-42-44 | 36-39-42-44 | |
| Outdoor Unit | Sound Level (PWL) | | dB(A) | 51 | 54 | 54 | 56 | 61 | 61 | 65 | 65 | 65 | 65 | |
| | Dimensions | H*W*D | mm | 630-809-300 | 630-809-300 | 943-950-330(+25) | 943-950-330(+25) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | |
| | Weight | | kg | 46 | 46 | 67 | 67 | 105 | 111 | 105 | 114 | 105 | 118 | |
| | 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 | |
| | | Heating | dB(A) | 65 | 65 | 67 | 67 | 69 | 69 | 70 | 70 | 70 | 70 | |
| | Operating Current(Max) | | A | 13 | 13 | 19 | 19 | 20 | 8 | 26.5 | 9 | 30 | 11.8 | |
| | Breaker Size | | A | 16 | 16 | 25 | 25 | 32 | 16 | 32 | 16 | 40 | 16 | |
| Ext.Piping | Diameter ⁽³⁾ | 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 | |
| | 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 | |
| Guaranteed Operating Range (Outdoor) | | | Cooling ⁽³⁾ | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | |
| | | | Heating | °C | -11 ~ +21 | -11 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | |

*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 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 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.

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

SERIES SELECTION

Power Inverter Series

Indoor Unit

R32
R410A



PLA-ZM35/50/60/71/100/125/140EA2

Panel

| Panel | With Signal Receiver | With 3D i-see Sensor | With Wireless Remote Controller | With Auto Elevation |
|-------------|----------------------|----------------------|---------------------------------|---------------------|
| PLP-6EA | | | | |
| PLP-6EAL | ✓ | | | |
| PLP-6EAE | | ✓ | | |
| PLP-6EALE | ✓ | ✓ | | |
| PLP-6EAJ | ✓ | | | ✓ |
| PLP-6EAJE | ✓ | ✓ | | |
| PLP-6EALM2 | ✓ | | ✓ | |
| PLP-6EALME2 | ✓ | ✓ | ✓ | |

Outdoor Unit

R410A

For Single



PUHZ-ZRP35/50



PUHZ-ZRP60/71



PUHZ-ZRP100/125/140

R410A

For Multi
(Twin/Triple/Quadruple)



PUHZ-ZRP71



PUHZ-ZRP100/125/140/200/250

Remote Controller



Optional



Optional



Optional



* Enclosed in PLP-6EALM2/PLP-6EALME2

PLA-ZM EA2 Indoor Unit Combinations

Indoor unit combinations shown below are possible.

| Indoor Unit Combination | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|---------------------------|-----------------------|------|------|------|-------|-------|-------|-----|-----|-------------|------|------|------|-------------|-------|-------------|------|------|---------------|------|
| | 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 | 140x1 | — | — | 35x2 | 50x2 | 60x2 | 71x2 | 100x2 | 125x2 | 50x3 | 60x3 | 71x3 | 50x4 | 60x4 |
| Distribution Pipe | — | — | — | — | — | — | — | — | — | MSDD-50TR-E | | | | MSDD-50WR-F | | MSDT-111R-E | | | MSDF-1111R-F | |

SERIES SELECTION

Standard Inverter Series

Indoor Unit

R410A



PLA-M35/50/60/71/100/125/140EA2

Panel

| Panel | With Signal Receiver | With 3D i-see Sensor | With Wireless Remote Controller | With Auto Elevation |
|-------------|----------------------|----------------------|---------------------------------|---------------------|
| PLP-6EA | | | | |
| PLP-6EAL | ✓ | | | |
| PLP-6EAE | | ✓ | | |
| PLP-6EALE | ✓ | ✓ | | |
| PLP-6EAJ | ✓ | | | ✓ |
| PLP-6EAJE | ✓ | ✓ | | ✓ |
| PLP-6EALM2 | ✓ | | ✓ | |
| PLP-6EALME2 | ✓ | ✓ | ✓ | |

Outdoor Unit

R410A

For Single



SUZ-KA35



SUZ-KA50/60/71



PUHZ-P100/125/140

R410A

For Multi
(Twin/Triple/Quadruple)



PUHZ-P100/125/140



PUHZ-P200/250

Remote Controller



Optional



Optional



Optional



* Enclosed in PLP-6EALM2/PLP-6EALME2

PLA-M EA2 Indoor Unit Combinations

Indoor unit combinations shown below are possible.

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-------------------|-----------------------|------|------|------|-------|-------|-------|-----|-----|----------|-------------|------|------|-------------|-------|-------------|------|------|---------------|------|
| | | 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 |
| 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-50TR-E | | | MSDD-50WR-E | | MSDT-111R-E | | | MSDF-1111R-E | |

PLA-ZM SERIES

POWER INVERTER



| Type | | Inverter Heat Pump | | | | | | | | | | | |
|----------------------------|---|--|-------------|-------------|--------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------|
| Indoor Unit | | | | | | | | | | | | | |
| Outdoor Unit | | PLA-M35EA2 PLA-M50EA2 PLA-M60EA2 PLA-M71EA2 PLA-M100EA2 PLA-M125EA2 PLA-M125EA2 PLA-M140EA2 PLA-M140EA2 | | | | | | | | | | | |
| Refrigerant ⁽¹⁾ | | PUHZ-ZRP35VKA2 PUHZ-ZRP50VKA2 PUHZ-ZRP60VHA2 PUHZ-ZRP71VHA2 PUHZ-ZRP100VKA PUHZ-ZRP125VKA PUHZ-ZRP125VKA PUHZ-ZRP140VKA PUHZ-ZRP140VKA | | | | | | | | | | | |
| Power Supply | | Source Outdoor power supply | | | | | | | | | | | |
| Cooling | | 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 | 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 | kW | 0.782 | 1.330 | 1.660 | 1.790 | 2.200 | 2.200 | 3.846 | 3.846 | 4.364 | 4.364 | |
| | EER | | 4.60 | 3.75 | 3.66 | 3.95 | 4.32 | 4.32 | 3.25 | 3.25 | 3.07 | 3.07 | |
| | Design load | kW | 3.6 | 5.0 | 6.1 | 7.1 | 9.5 | 9.5 | — | — | — | — | |
| Heating | Annual electricity consumption ⁽²⁾ | kWh/a | 170 | 253 | 318 | 335 | 461 | 472 | — | — | — | — | |
| | SEER ^(3,4) | | 7.4 | 6.9 | 6.7 | 7.4 | 7.2 | 7.0 | — | — | — | — | |
| | Energy efficiency class | | A++ | A++ | A++ | A++ | A++ | A++ | — | — | — | — | |
| | Rated | kW | 4.1 | 6.0 | 7.0 | 8.0 | 11.2 | 11.2 | 14.0 | 14.0 | 16.0 | 16.0 | |
| | 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 | |
| Total Input | Rated | kW | 0.850 | 1.550 | 1.890 | 1.900 | 2.600 | 2.600 | 3.674 | 3.674 | 4.848 | 4.848 | |
| | COP | | 4.82 | 3.85 | 3.70 | 4.20 | 4.31 | 4.31 | 3.81 | 3.81 | 3.30 | 3.30 | |
| | 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) | — | — | — | — | |
| Back up heating capacity | 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) | — | — | — | — | |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 713 | 1108 | 1335 | 1337 | 2223 | 2224 | — | — | — | — | |
| | SCOP ^(3,4) | | 4.9 | 4.8 | 4.6 | 4.9 | 4.9 | 4.9 | — | — | — | — | |
| | Energy efficiency class | | A++ | A++ | A++ | A++ | A++ | A++ | — | — | — | — | |
| | Rated | kW | 13.2 | 13.2 | 19.2 | 19.3 | 27.0 | 27.0 | 27.0 | 27.0 | 28.7 | 28.7 | |
| Operating Current(Max) | | A | 13.2 | 13.2 | 19.2 | 19.3 | 27.0 | 27.0 | 27.0 | 27.0 | 28.7 | 28.7 | |
| Indoor Unit | Input [cooling / Heating] | Rated | kW | 0.03 / 0.03 | 0.03 / 0.03 | 0.03 / 0.03 | 0.05 / 0.05 | 0.07 / 0.07 | 0.07 / 0.07 | 0.08 / 0.08 | 0.08 / 0.08 | 0.10 / 0.10 | 0.10 / 0.10 |
| | Operating Current(Max) | A | 0.21 | 0.22 | 0.22 | 0.34 | 0.47 | 0.47 | 0.52 | 0.52 | 0.66 | 0.66 | |
| | Dimensions | H*W*D | mm | 258-840-840 | <40-950-950> | | | | | | | | |
| | Weight | kg | 21 <5> | 21 <5> | 21 <5> | 24 <5> | 26 <5> | 26 <5> | 26 <5> | 26 <5> | 26 <5> | 26 <5> | |
| | Air Volume (Lo-Mi2-Mi1-Hi) | 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 | |
| Outdoor Unit | Sound Level (Lo-Mi2-Mi1-Hi) (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 | 56 | 61 | 61 | 65 | 65 | 65 | 65 | |
| | Dimensions | H*W*D | mm | 630-809-300 | 630-809-300 | 943-960-330(+30) | 943-960-330(+30) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | |
| | 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 | |
| Sound Level (SPL) | Heating | m³/min | 45 | 45 | 55 | 55 | 110 | 110 | 120 | 120 | 120 | 120 | |
| | 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 | |
| | Cooling | dB(A) | 65 | 65 | 67 | 67 | 69 | 69 | 70 | 70 | 70 | 70 | |
| | Operating Current(Max) | A | 13 | 13 | 19 | 19 | 26.5 | 8 | 26.5 | 9.5 | 28 | 13 | |
| Ext.Piping | Breaker Size | A | 16 | 16 | 25 | 25 | 32 | 16 | 32 | 16 | 40 | 16 | |
| | Diameter ⁽⁵⁾ | 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 | |
| | Max.Length | Out-In | m | 50 | 50 | 50 | 50 | 75 | 75 | 75 | 75 | 75 | |
| | Max.Height | Out-In | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | |
| | Guaranteed Operating Range (Outdoor) | Cooling ⁽³⁾ | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | |
| | | Heating | °C | -11 ~ +21 | -11 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | |

*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 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.

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PLA-M SERIES

STANDARD INVERTER



| Type | | | | Inverter Heat Pump | | | | | | | | | |
|---|---|---------------------------------|-----------|--|-------------|--------------|--------------|--------------------------|--------------|--------------|--------------|--------------|--------------|
| Indoor Unit | | | | PLA-M35EA2 | PLA-M50EA2 | PLA-M60EA2 | PLA-M71EA2 | PLA-M100EA2 | PLA-M100EA2 | PLA-M125EA2 | PLA-M125EA2 | PLA-M140EA2 | PLA-M140EA2 |
| Outdoor Unit | | | | SUZ-KA35VA6 | SUZ-KA50VA6 | SUZ-KA60VA6 | SUZ-KA71VA6 | PUHZ-P100VKA | PUHZ-P100VKA | PUHZ-P125VKA | PUHZ-P125VKA | PUHZ-P140VKA | PUHZ-P140VKA |
| Refrigerant ⁽¹⁾ | | | | R410A | | | | | | | | | |
| Power Supply | | | | Outdoor power supply | | | | | | | | | |
| Source | | | | VA-VKA:230/Single/50, YKA-400/Three/50 | | | | | | | | | |
| Outdoor(V/Phase/Hz) | | | | | | | | | | | | | |
| Cooling | Capacity | Rated | kW | 3.6 | 5.5 | 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 | 1.020 | 1.610 | 1.760 | 2.100 | 3.186 | 3.186 | 4.101 | 4.101 | 5.418 | 5.418 |
| | EER | | | 3.53 | 3.42 | 3.24 | 3.38 | 2.95 | 2.95 | 2.95 | 2.95 | 2.51 | 2.51 |
| | Design load | | kW | 3.6 | 5.5 | 5.7 | 7.1 | 9.4 | 9.4 | — | — | — | — |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 181 | 296 | 306 | 400 | 537 | 537 | — | — | — | — |
| Heating | SEER ^(3,4) | | | 6.9 | 6.5 | 6.5 | 6.2 | 6.1 | 6.1 | — | — | — | — |
| | | Energy efficiency class | | A++ | A++ | A++ | A++ | A++ | A++ | — | — | — | — |
| | Capacity | Rated | kW | 4.1 | 5.8 | 6.9 | 8.0 | 11.2 | 11.2 | 13.5 | 13.5 | 15.0 | 15.0 |
| | | 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 |
| | Total Input | Rated | kW | 1.000 | 1.690 | 1.970 | 2.247 | 3.265 | 3.265 | 3.846 | 3.846 | 4.672 | 4.672 |
| | COP | | | 4.10 | 3.43 | 3.50 | 3.56 | 3.43 | 3.43 | 3.51 | 3.51 | 3.21 | 3.21 |
| | Design load | | kW | 2.6 | 4.3 | 4.6 | 5.8 | 8.0 | 8.0 | — | — | — | — |
| | Declared Capacity | 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 capacity | | kW | 0.3 | 0.5 | 0.6 | 1.1 | 2.0 | 2.0 | — | — | — | — | |
| Annual electricity consumption ⁽²⁾ | | kWh/a | 826 | 1499 | 1493 | 1888 | 2433 | 2433 | — | — | — | — | |
| SCOP ^(3,4) | | | 4.4 | 4.0 | 4.3 | 4.3 | 4.6 | 4.6 | — | — | — | — | |
| | Energy efficiency class | | A+ | A+ | A+ | A+ | A++ | A++ | — | — | — | — | |
| Operating Current(Max) | | | A | 8.4 | 12.2 | 14.2 | 16.4 | 20.5 | 12.0 | 27.2 | 12.2 | 30.7 | 12.2 |
| Indoor Unit | Input [cooling / Heating] | Rated | kW | 0.03 / 0.03 | 0.03 / 0.03 | 0.03 / 0.03 | 0.04 / 0.04 | 0.07 / 0.07 | 0.07 / 0.07 | 0.10 / 0.10 | 0.10 / 0.10 | 0.10 / 0.10 | 0.10 / 0.10 |
| | Operating Current(Max) | | A | 0.20 | 0.22 | 0.24 | 0.27 | 0.46 | 0.46 | 0.66 | 0.66 | 0.66 | 0.66 |
| | Dimensions | H*W*D | mm | 258-840-840 <40-950-950> | | | | 298-840-840 <40-950-950> | | | | | |
| | Weight | | 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-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 | 24-26-29-32 |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | 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 | 33-37-41-44 | 33-37-41-44 | 36-39-42-44 | 36-39-42-44 |
| Outdoor Unit | Sound Level (PWL) | | dB(A) | 51 | 54 | 54 | 56 | 61 | 61 | 65 | 65 | 65 | 65 |
| | Dimensions | H*W*D | mm | 550-800-285 | 880-840-330 | 880-840-330 | 880-840-330 | 981-1050-330 | 981-1050-330 | 981-1050-330 | 981-1050-330 | 981-1050-330 | 981-1050-330 |
| | 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 | 49.2 | 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) | | A | 8.2 | 12 | 14 | 16.1 | 20 | 11.5 | 26.5 | 11.5 | 30 | 11.5 |
| | Breaker Size | | A | 10 | 20 | 20 | 20 | 32 | 16 | 32 | 16 | 40 | 16 |
| Ext.Piping | Diameter ⁽⁵⁾ | 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 |
| | 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 |
| | Guaranteed Operating Range (Outdoor) | Cooling ⁽³⁾ | °C | -10 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| Heating | | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | |

PLA-M SERIES

POWER INVERTER



| Type | | | Inverter Heat Pump | | | | | | | | | |
|--------------------------------------|---|---------------------------------|---|----------------|----------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Indoor Unit | | | PLA-M35EA2 | PLA-M50EA2 | PLA-M60EA2 | PLA-M71EA2 | PLA-M100EA2 | PLA-M100EA2 | PLA-M125EA2 | PLA-M125EA2 | PLA-M140EA2 | PLA-M140EA2 |
| Outdoor Unit | | | PUHZ-ZRP35VKA2 | PUHZ-ZRP50VKA2 | PUHZ-ZRP60VHA2 | PUHZ-ZRP71VHA2 | PUHZ-ZRP100VKA3 | PUHZ-ZRP100VKA3 | PUHZ-ZRP125VKA3 | PUHZ-ZRP125VKA3 | PUHZ-ZRP140VKA3 | PUHZ-ZRP140VKA3 |
| Refrigerant ⁽¹⁾ | | | R410A | | | | | | | | | |
| Power Supply | Source | | Outdoor power supply | | | | | | | | | |
| | Outdoor(V/Phase/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 |
| | | 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 |
| | Total Input | Rated | kW | 0.833 | 1.416 | 1.747 | 1.868 | 2.230 | 2.230 | 3.869 | 3.869 | 4.393 |
| | EER | | | 4.32 | 3.53 | 3.49 | 3.80 | 4.26 | 4.26 | 3.23 | 3.23 | 3.05 |
| | 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 | 475 | — | — | — |
| | SEER | | | 7.2 | 6.7 | 6.6 | 7.2 | 7.1 | 6.9 | — | — | — |
| Heating (Average Season) | Energy efficiency class | | | A++ | A++ | A++ | A++ | A++ | A++ | — | — | — |
| | Capacity | Rated | kW | 4.1 | 6.0 | 7.0 | 8.0 | 11.2 | 11.2 | 14.0 | 14.0 | 16.0 |
| | | 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 |
| | Total Input | Rated | kW | 0.920 | 1.810 | 2.070 | 2.110 | 2.690 | 2.690 | 3.773 | 3.773 | 4.907 |
| | COP | | | 4.46 | 3.31 | 3.38 | 3.79 | 4.16 | 4.16 | 3.71 | 3.71 | 3.26 |
| | 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 capacity | | kW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | — | — | — |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 766 | 1215 | 1421 | 1405 | 2471 | 2472 | — | — | — |
| Operating Current(Max) | Energy efficiency class | | | A+ | A+ | A+ | A++ | A+ | A+ | — | — | — |
| | | | A | 13.2 | 13.2 | 19.2 | 19.3 | 27.0 | 8.5 | 27.2 | 10.2 | 28.7 |
| Indoor Unit | Input [cooling / Heating] | Rated | kW | 0.03 / 0.03 | 0.03 / 0.03 | 0.03 / 0.03 | 0.04 / 0.04 | 0.07 / 0.07 | 0.07 / 0.07 | 0.10 / 0.10 | 0.10 / 0.10 | 0.10 / 0.10 |
| | Operating Current(Max) | | A | 0.20 | 0.22 | 0.24 | 0.27 | 0.46 | 0.46 | 0.66 | 0.66 | 0.66 |
| | Dimensions | H*W*D | mm | 258-840-840 | | <40-950-950> | | 298-840-840 | | <40-950-950> | | |
| | Weight | | kg | 19 <5> | 19 <5> | 21 <5> | 21 <5> | 24 <5> | 24 <5> | 26 <5> | 26 <5> | 26 <5> |
| | Air Volume (Lo-Mid-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 |
| | External Static Pressure | | Pa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sound Level (Lo-Mid-Hi) (SPL) | | 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 | 33-37-41-44 | 33-37-41-44 | 36-39-42-44 |
| | Sound Level (PWL) | | dB(A) | 51 | 54 | 54 | 56 | 61 | 61 | 65 | 65 | 65 |
| | Dimensions | H*W*D | mm | 630-809-300 | 630-809-300 | 943-950-330(+30) | 943-950-330(+30) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) |
| | Weight | | kg | 43 | 46 | 70 | 70 | 116 | 123 | 116 | 125 | 118 |
| Outdoor Unit | 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 | 120 |
| | Sound Level (SPL) | Cooling | dB(A) | 44 | 44 | 47 | 47 | 49 | 49 | 50 | 50 | 50 |
| | | Heating | dB(A) | 46 | 46 | 48 | 48 | 51 | 51 | 52 | 52 | 52 |
| | Sound Level (PWL) | Cooling | dB(A) | 65 | 65 | 67 | 67 | 69 | 69 | 70 | 70 | 70 |
| | Operating Current(Max) | | A | 13 | 13 | 19 | 19 | 26.5 | 8 | 26.5 | 9.5 | 28 |
| | Breaker Size | | A | 16 | 16 | 25 | 25 | 32 | 16 | 32 | 16 | 40 |
| Ext.Piping | Diameter ⁽³⁾ | 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 |
| | Max.Length | Out-In | m | 50 | 50 | 50 | 50 | 75 | 75 | 75 | 75 | 75 |
| | Max.Height | Out-In | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Guaranteed Operating Range (Outdoor) | | | Cooling ⁽³⁾ | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | | | Heating | °C | -11 ~ +21 | -11 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 |

*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 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.

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PEAD SERIES

R32
R410A

PEAD-M35/50/60/71/100/125/140JA2

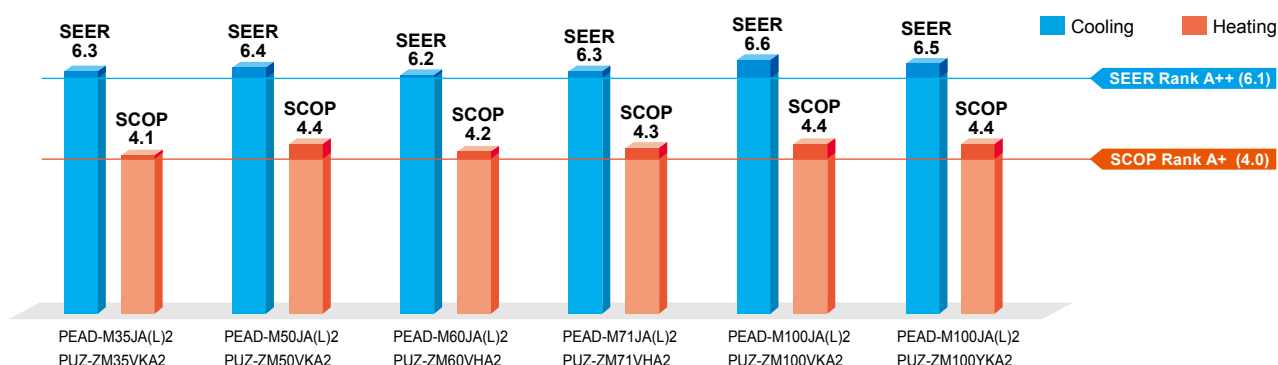
Energy efficiency has been improved. A reduced electricity consumption contributes to a further reduction in operating cost. The thin body with a wide-ranged external static pressure of this series is the perfect answer for the air conditioning needs of buildings with minimum ceiling installation space.



ErP Lot-10 compliant, Achieving High Energy Efficiency



The shape of fan wing and casing is improved to provide more smooth air flow, increasing the operation efficiency. All models under 12kW(M35~M100) are complied with ErP Lot 10 and energy rankings of A++ for cooling and A+ for heating. This contributes to a reduction in the cost of annual electricity.



Compact Indoor Units

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

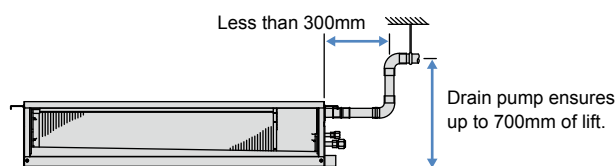
Selectable Static Pressure Levels

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

Drain Pump is Optionally Selectable

The line-up consists of two types: models with or without a built-in drain pump, thus allowing more freedom in piping design.

- PEAD-M JA2 ▶ Built-in drain pump
- PEAD-M JAL2 ▶ No drain pump



Connectable to Plasma Quad Connect

The optional Plasma Quad Connect MAC-100FTE can be installed on the indoor unit's air inlet side. For installation, PQ attachment or PQ box is required.

SERIES SELECTION

Power Inverter Series



Indoor Unit

R32
R410A



PEAD-M35/50/60/71/100/125/140JA(L)2

Outdoor Unit

R32

For Single



PUZ-ZM35/50



PUZ-ZM60/71



PUZ-ZM100/125/140

R32

For Multi
(Twin/Triple/Quadruple)



PUZ-ZM71



PUZ-ZM100/125/140/200/250

Remote Controller



Optional



Optional



Optional



Optional*



Optional*

* PAR-SC9CA-E is also required.

PEAD-M JA(L)2 Indoor Unit Combinations Indoor unit combinations shown below are possible.

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------------|-----------------------|------|------|------|-------|-------|-------|-----|-----|--------------|------|------|------|--------------|-------|--------------|------|------|---------------|------|
| | | 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 (PUZ-ZM) | | 35x1 | 50x1 | 60x1 | 71x1 | 100x1 | 125x1 | 140x1 | – | – | 35x2 | 50x2 | 60x2 | 71x2 | 100x2 | 125x2 | 50x3 | 60x3 | 71x3 | 50x4 | 60x4 |
| | Distribution Pipe | – | – | – | – | – | – | – | – | – | MSDD-50TR2-E | | | | MSDD-50WR2-E | | MSDT-111R3-E | | | MSDF-111R2-E | |

SERIES SELECTION

Standard Inverter Series



Indoor Unit

R32
R410A



PEAD-M35/50/60/71/100/125/140JA(L)2

Outdoor Unit

R32

For Single



SUZ-M35



SUZ-M50



SUZ-M60/71



PUZ-M100/125/140

R32

For Multi
(Twin/Triple/Quadruple)



PUZ-M100/125/140



PUZ-M200/250

Remote Controller



Optional



Optional



Optional



Optional*



Optional*

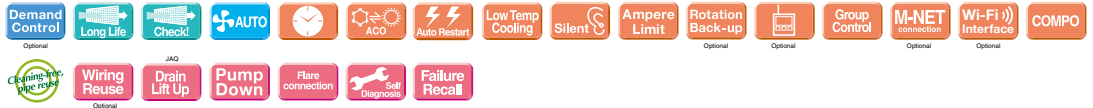
* PAR-SC9CA-E is also required.

PEAD-M JA(L)2 Indoor Unit Combinations Indoor unit combinations shown below are possible.

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------------------|-----------------------|------|------|------|-------|-------|-------|-----|-----|----------|--------------|------|------|--------------|-------|--------------|------|------|---------------|------|
| | | 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 |
| Standard Inverter (PUZ-M&SUZ) | | 35x1 | 50x1 | 60x1 | 71x1 | 100x1 | 125x1 | 140x1 | — | — | — | 50x2 | 60x2 | 71x2 | 100x2 | 125x2 | 50x3 | 60x3 | 71x3 | 50x4 | 60x4 |
| | Distribution Pipe | — | — | — | — | — | — | — | — | — | — | MSDD-50TR2-E | | | MSDD-50WB2-E | | MSDT-111R3-E | | | MSDF-111B2-E | |

PEAD-M SERIES

POWER INVERTER



| Type | | | Inverter Heat Pump | | | | | | | | | | |
|----------------------------|--|---------------------------------|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Indoor Unit | | | PEAD-M35JAII2 | PEAD-M50JAII2 | PEAD-M60JAII2 | PEAD-M71JAII2 | PEAD-M100JAII2 | PEAD-M100JAII2 | PEAD-M125JAII2 | PEAD-M125JAII2 | PEAD-M140JAII2 | PEAD-M140JAII2 | |
| Outdoor Unit | | | PUZ-ZM35VKA2 | PUZ-ZM50VKA2 | PUZ-ZM60VHA2 | PUZ-ZM71VHA2 | PUZ-ZM100VKA2 | PUZ-ZM100VKA2 | PUZ-ZM125VKA2 | PUZ-ZM125VKA2 | PUZ-ZM140VKA2 | PUZ-ZM140VKA2 | |
| Refrigerant ⁽¹⁾ | | | R32 | | | | | | | | | | |
| Power Supply | | | Outdoor power supply VKA-VHA:230/Single/50, YKA:400/Three/50 | | | | | | | | | | |
| Cooling | Source Outdoor(V/Phase/Hz) | | | | | | | | | | | | |
| | 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 ~ 15.3 |
| | Total Input | Rated | kW | 0.837 | 1.190 | 1.487 | 1.775 | 2.261 | 2.261 | 3.333 | 3.333 | 3.701 | 3.701 |
| | EER ⁽⁴⁾ | | | 4.30 | 4.20 | 4.10 | 4.00 | 4.20 | 4.20 | 3.75 | 3.75 | 3.62 | 3.62 |
| | Design load | | kW | 3.6 | 5.0 | 6.1 | 7.1 | 9.5 | 9.5 | — | — | — | — |
| | Annual electricity consumption ⁽¹²⁾ | | kWh/a | 199 | 273 | 342 | 393 | 499 | 510 | — | — | — | — |
| | SEER ⁽⁴⁾⁽¹⁵⁾ | | | 6.3 | 6.4 | 6.2 | 6.3 | 6.6 | 6.5 | — | — | — | — |
| Energy efficiency class | | | A++ | 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 |
| | | 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 |
| | Total Input | Rated | kW | 0.911 | 1.363 | 1.590 | 1.904 | 2.545 | 2.545 | 3.763 | 3.763 | 4.102 | 4.102 |
| | COP ⁽⁴⁾ | | | 4.50 | 4.40 | 4.40 | 4.20 | 4.40 | 4.40 | 3.72 | 3.72 | 3.90 | 3.90 |
| | Design load | | kW | 2.4 | 3.8 | 4.4 | 4.9 | 7.8 | 7.8 | — | — | — | — |
| | Declared Capacity | 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) | — | — | — | — |
| | | 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) | 3.4 (-20°C) | 5.8 (-20°C) | 5.8 (-20°C) | — | — | — | — |
| | Back up heating capacity | | kW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | — | — | — | — |
| | Annual electricity consumption ⁽¹²⁾ | | kWh/a | 816 | 1202 | 1459 | 1585 | 2469 | 2470 | — | — | — | — |
| SEOP ⁽⁴⁾⁽¹⁵⁾ | | | 4.1 | 4.4 | 4.2 | 4.3 | 4.4 | 4.4 | — | — | — | — | |
| Energy efficiency class | | | A+ | A+ | A+ | A+ | A+ | A+ | — | — | — | — | |
| Operating Current(Max) | | | A | 14.2 | 14.4 | 20.9 | 20.9 | 22.3 | 10.3 | 28.8 | 11.3 | 32.6 | 14.4 |
| Indoor Unit | Input (cooling / Heating) | Rated | kW | 0.05 | 0.07 | 0.08 | 0.09 | 0.14 | 0.14 | 0.20 | 0.20 | 0.21 | 0.21 |
| | Operating Current(Max) | | A | 1.16 | 1.35 | 1.85 | 1.9 | 2.25 | 2.25 | 2.34 | 2.34 | 2.63 | 2.63 |
| | Dimensions | H*W*D | mm | 250×900×732 | 250×900×732 | 250×1100×732 | 250×1100×732 | 250×1400×732 | 250×1400×732 | 250×1400×732 | 250×1600×732 | 250×1600×732 | 250×1600×732 |
| | Weight | | kg | 25(24.5) | 26.5(25.5) | 29.5(29) | 29.5(29) | 37(36) | 37(36) | 38(37) | 38(37) | 42(41) | 42(41) |
| | Air Volume (Lo-Mid-Hi) | | m³/min | 10.0-12.0-14.0 | 12.0-14.5-17.0 | 14.5-18.0-21.0 | 14.5-18.0-23.0 | 23.0-28.0-32.0 | 23.0-28.0-32.0 | 28.0-34.0-37.0 | 28.0-34.0-37.0 | 29.5-35.5-40.0 | 29.5-35.5-40.0 |
| | External Static Pressure ⁽⁷⁾ | | Pa | 35<50><70><100><150> | 35<50><70><100><150> | 40<50><70><100><150> | 40<50><70><100><150> | 40<50><70><100><150> | 40<50><70><100><150> | 40<50><70><100><150> | 40<50><70><100><150> | 40<50><70><100><150> | 40<50><70><100><150> |
| | Sound Level (Lo-Mid-Hi) (SPL) | | dB(A) | 24-29-32 | 27-33-35 | 26-32-35 | 26-32-37 | 31-36-39 | 31-36-39 | 35-39-41 | 35-39-41 | 34-38-41 | 34-38-41 |
| | Sound Level (PWL) | | dB(A) | 54 | 58 | 56 | 58 | 62 | 62 | 66 | 66 | 66 | 66 |
| | Dimensions | H*W*D | mm | 630-809-300 | 630-809-300 | 943-950-330(+25) | 943-950-330(+25) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) |
| | Weight | | kg | 46 | 46 | 67 | 67 | 105 | 111 | 105 | 114 | 105 | 118 |
| Outdoor Unit | 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) | | A | 13 | 13 | 19 | 19 | 20 | 8 | 26.5 | 9 | 30 | 11.8 |
| | Breaker Size | | A | 16 | 16 | 25 | 25 | 32 | 16 | 32 | 16 | 40 | 16 |
| | Diameter ⁽⁶⁾ | 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 |
| Ext.Piping | 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 |
| | Guaranteed Operating Range (Outdoor) | Cooling ⁽³⁾ | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heating | °C | -11 ~ +21 | -11 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | |

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

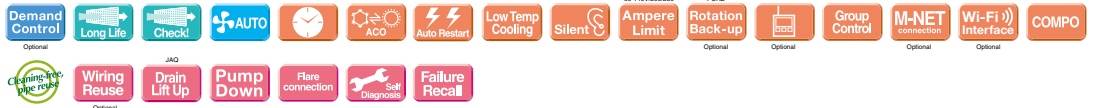
*3 Optional air protection guide is required where ambient temperature is lower than -5°C. *4 EER/COP and SEER/SCOP for M35-71 are measured at ESP 35Pa, for M100 at ESP 37Pa, for M125/140 at ESP 50Pa.

*5 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012. *6 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

*7 The factory setting of ESP is shown without < > .

PEAD-M SERIES

STANDARD INVERTER



| Type | | | Inverter Heat Pump | | | | | | | | | | | |
|--|--|---------------------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------|------|
| Indoor Unit | | | PEAD-M35JAII2 | PEAD-M50JAII2 | PEAD-M60JAII2 | PEAD-M71JAII2 | PEAD-M100JAII2 | PEAD-M100JAII2 | PEAD-M125JAII2 | PEAD-M125JAII2 | PEAD-M125JAII2 | PEAD-M140JAII2 | PEAD-M140JAII2 | |
| Outdoor Unit | | | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA | SUZ-M71VA | PUZ-M100VKA2 | PUZ-M100VKA2 | PUZ-M125VKA2 | PUZ-M125VKA2 | PUZ-M140VKA2 | PUZ-M140VKA2 | | |
| Refrigerant ⁽¹⁾ | | | R32 | | | | | | | | | | | |
| Power Supply | | | Outdoor power supply VA-VKA:230/Single/50, YKA:400/Three/50 | | | | | | | | | | | |
| Cooling | Source | | Outdoor(V/Phase/Hz) | | | | | | | | | | | |
| | 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 | 1.7 - 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 | 0.923 | 1.351 | 1.694 | 2.028 | 2.878 | 2.878 | 4.019 | 4.019 | 4.768 | 4.768 | |
| | EER ⁽⁴⁾ | | | 3.90 | 3.70 | 3.60 | 3.50 | 3.30 | 3.30 | 3.01 | 3.01 | 2.81 | 2.81 | |
| | Design load | | kW | 3.6 | 5.0 | 6.1 | 7.1 | 9.5 | 9.5 | — | — | — | — | |
| | Annual electricity consumption ⁽¹²⁾ | | kWh/a | 199 | 277 | 345 | 397 | 538 | 538 | — | — | — | — | |
| | SEER ⁽⁴⁾⁽¹⁵⁾ | | | 6.3 | 6.3 | 6.1 | 6.2 | 6.1 | 6.1 | — | — | — | — | |
| | Energy efficiency class | | | 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 |
| | | 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 | |
| Total Input | | Rated | kW | 1.025 | 1.463 | 1.842 | 2.105 | 2.947 | 2.947 | 3.739 | 3.739 | 4.155 | 4.155 | |
| COP ⁽⁴⁾ | | | | 4.00 | 4.10 | 3.80 | 3.80 | 3.80 | 3.80 | 3.61 | 3.61 | 3.61 | 3.61 | |
| Design load | | | kW | 2.6 | 4.3 | 4.6 | 5.8 | 8.0 | 8.0 | — | — | — | — | |
| 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) | — | — | — | — | |
| | | 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) | — | — | — | — | |
| | | 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) | — | — | — | — | |
| Back up heating capacity | | | kW | 0.3 | 0.5 | 0.5 | 0.6 | 2.0 | 2.0 | — | — | — | — | |
| Annual electricity consumption ⁽¹²⁾ | | | kWh/a | 884 | 1417 | 1558 | 1973 | 2725 | 2725 | — | — | — | — | |
| Energy efficiency class | | | A+ | A+ | A+ | A+ | A+ | A+ | — | — | — | — | | |
| Operating Current(Max) | | | A | 9.7 | 14.9 | 16.7 | 16.7 | 22.3 | 13.8 | 27.8 | 12.8 | 31.4 | 12.9 | |
| Indoor Unit | Input (cooling / Heating) | | Rated | kW | 0.05 | 0.07 | 0.08 | 0.09 | 0.14 | 0.14 | 0.20 | 0.20 | 0.21 | 0.21 |
| | Operating Current(Max) | | A | 1.16 | 1.35 | 1.85 | 1.9 | 2.25 | 2.25 | 2.34 | 2.34 | 2.63 | 2.63 | |
| | Dimensions | H*W*D | mm | 250×900×732 | 250×900×732 | 250×1100×732 | 250×1100×732 | 250×1400×732 | 250×1400×732 | 250×1400×732 | 250×1600×732 | 250×1600×732 | | |
| | Weight | | kg | 25(24.5) | 26.5(25.5) | 29.5(29) | 29.5(29) | 37(36) | 37(36) | 38(37) | 38(37) | 42(41) | 42(41) | |
| | Air Volume (Lo-Mid-Hi) | | m³/min | 10.0-12.0-14.0 | 12.0-14.5-17.0 | 14.5-18.0-21.0 | 14.5-18.0-23.0 | 23.0-28.0-32.0 | 23.0-28.0-32.0 | 28.0-34.0-37.0 | 28.0-34.0-37.0 | 29.5-35.5-40.0 | 29.5-35.5-40.0 | |
| | External Static Pressure ⁽¹²⁾ | | Pa | 35-<50-<70-<100-<150 | 35-<50-<70-<100-<150 | 40-<50-<70-<100-<150 | 40-<50-<70-<100-<150 | 40-<50-<70-<100-<150 | 40-<50-<70-<100-<150 | 40-<50-<70-<100-<150 | 40-<50-<70-<100-<150 | 40-<50-<70-<100-<150 | | |
| | Sound Level (Lo-Mid-Hi) (SPL) | | dB(A) | 24-29-32 | 27-33-35 | 26-32-35 | 26-32-37 | 31-36-39 | 31-36-39 | 35-39-41 | 35-39-41 | 34-38-41 | 34-38-41 | |
| | Sound Level (PWL) | | dB(A) | 54 | 58 | 56 | 58 | 62 | 62 | 66 | 66 | 66 | 66 | |
| | Dimensions | H*W*D | mm | 550-800-285 | 714-800-285 | 880-840-330 | 880-840-330 | 981-1050-330(+40) | 981-1050-330(+40) | 981-1050-330(+40) | 981-1050-330(+40) | 981-1050-330(+40) | 981-1050-330(+40) | |
| | Weight | | kg | 35 | 41 | 54 | 55 | 76 | 78 | 84 | 85 | 84 | 85 | |
| Outdoor Unit | Air Volume | Cooling | m³/min | 34.3 | 45.8 | 50.1 | 50.1 | 79 | 79 | 86 | 86 | 86 | 86 | |
| | | Heating | m³/min | 32.7 | 43.7 | 50.1 | 50.1 | 79 | 79 | 92 | 92 | 92 | 92 | |
| | 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) | Cooling | dB(A) | 59 | 64 | 65 | 66 | 70 | 70 | 72 | 72 | 73 | 73 | |
| | Operating Current(Max) | | A | 8.5 | 13.5 | 14.8 | 14.8 | 20 | 11.5 | 26.5 | 11.5 | 30 | 11.5 | |
| | Breaker Size | | A | 16 | 20 | 20 | 20 | 32 | 16 | 32 | 16 | 40 | 16 | |
| | Ext.Piping Diameter ⁽⁶⁾ | | 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 | |
| | 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 | |
| Guaranteed Operating Range (Outdoor) | | | Cooling ⁽¹³⁾ | °C | -10 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | | |
| | | | Heating | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | | |

SERIES SELECTION

Power Inverter Series



Indoor Unit

R32
R410A



PEAD-M35/50/60/71/100/125/140JA(L)2

Outdoor Unit

R410A

For Single



PUAZ-ZRP35/50



PUAZ-ZRP60/71



PUAZ-ZRP100/125/140

R410A

For Multi
(Twin/Triple/Quadruple)



PUAZ-ZRP71



PUAZ-ZRP100/125/140/200/250

Remote Controller



Optional



Optional



Optional



Optional*



Optional*

* PAR-SC9CA-E is also required.

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

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------|-----------------------|------|------|------|-------|-------|-------|-----|-----|-------------|------|------|------|-------------|-------|-------------|------|------|---------------|------|
| | | 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 | 140x1 | – | – | 35x2 | 50x2 | 60x2 | 71x2 | 100x2 | 125x2 | 50x3 | 60x3 | 71x3 | 50x4 | 60x4 |
| | Distribution Pipe | – | – | – | – | – | – | – | – | – | MSDD-50TR-E | | | | MSDD-50WR-E | | MSDT-111R-E | | | MSDF-1111R-E | |

SERIES SELECTION

Standard Inverter Series



Indoor Unit

R32
R410A



PEAD-M35/50/60/71/100/125/140JA(L)2

Outdoor Unit

R410A

For Single



SUZ-KA35



SUZ-KA50/60/71



PUAZ-P100/125/140

R410A

For Multi
(Twin/Triple/Quadruple)



PUAZ-P100/125/140



PUAZ-P200/250

Remote Controller



Optional



Optional



Optional



Optional*



Optional*

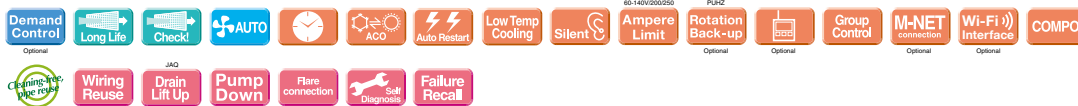
* PAR-SC9CA-E is also required.

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

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------------|-----------------------|------|------|------|-------|-------|-------|-----|-----|----------|-------------|------|------|-------------|-------|-------------|------|------|---------------|------|
| | | 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 |
| Standard Inverter (PUHZ-P&SUZ) | | 35x1 | 50x1 | 60x1 | 71x1 | 100x1 | 125x1 | 140x1 | — | — | — | 50x2 | 60x2 | 71x2 | 100x2 | 125x2 | 50x3 | 60x3 | 71x3 | 50x4 | 60x4 |
| | Distribution Pipe | — | — | — | — | — | — | — | — | — | — | MSDD-50TR-E | | | MSDD-50WR-E | | MSDT-111R-E | | | MSDF-1111R-E | |

PEAD-M SERIES

POWER INVERTER



| Type | | | Inverter Heat Pump | | | | | | | | | | | |
|----------------------------|--|--|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------|
| Indoor Unit | | | PEAD-M35JAIIJ2 PEAD-M50JAIIJ2 PEAD-M60JAIIJ2 PEAD-M71JAIIJ2 PEAD-M100JAIIJ2 PEAD-M100JAIIJ2 PEAD-M125JAIIJ2 PEAD-M125JAIIJ2 PEAD-M140JAIIJ2 PEAD-M140JAIIJ2 | | | | | | | | | | | |
| Outdoor Unit | | | PUHZ-RP35VKA2 PUHZ-RP50VKA2 PUHZ-RP60VHA2 PUHZ-RP71VHA2 PUHZ-RP100VKA3 PUHZ-RP100VKA3 PUHZ-RP125VKA3 PUHZ-RP125VKA3 PUHZ-RP140VKA3 PUHZ-RP140VKA3 | | | | | | | | | | | |
| Refrigerant ⁽¹⁾ | | | R410A | | | | | | | | | | | |
| Power Supply | | | Outdoor power supply 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 ~ 6.7 | 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 ~ 15.3 |
| | Total Input | | Rated | kW | 0.870 | 1.420 | 1.630 | 1.990 | 2.410 | 2.430 | 3.834 | 3.834 | 4.322 | 4.322 |
| | EER ⁽¹⁴⁾ | | Rated | | 4.14 | 3.52 | 3.74 | 3.53 (3.57) | 3.94 | 3.94 | 3.26 | 3.26 | 3.10 | 3.10 |
| | Design load | | | kW | 3.6 | 5.0 | 6.1 | 7.1 | 9.5 | 9.5 | — | — | — | — |
| | Annual electricity consumption ⁽¹²⁾ | | | kWh/a | 205 | 287 | 340 | 411 | 542 | 553 | — | — | — | — |
| | SEER ⁽⁴⁾⁽⁵⁾ | | | | 6.1 | 6.1 | 6.2 | 6.0 | 6.1 | 6.0 | — | — | — | — |
| Heating | Energy efficiency class | | | A++ | A++ | A++ | A+ | A++ | A+ | A+ | — | — | — | — |
| | Capacity | | Rated | kW | 4.1 | 6.0 | 7.0 | 8.0 | 11.2 | 11.2 | 14.0 | 14.0 | 16.0 | 16.0 |
| | | | 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 |
| | Total Input | | Rated | kW | 0.950 | 1.500 | 1.790 | 2.030 | 2.600 | 2.600 | 3.508 | 3.508 | 4.071 | 4.071 |
| | COP ⁽¹⁴⁾ | | | | 4.32 | 4.00 | 3.91 | 3.94 | 4.31 | 4.31 | 3.70 (3.99) | 3.70 (3.99) | 3.60 | 3.60 |
| | Design load | | | kW | 2.4 | 3.8 | 4.4 | 4.9 | 7.8 | 7.8 | — | — | — | — |
| | Declared Capacity | | 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) | — | — | — | — |
| | | | 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 capacity | | | kW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | — | — | — | — |
| | Annual electricity consumption ⁽¹²⁾ | | | kWh/a | 831 | 1232 | 1487 | 1718 | 2593 | 2594 | — | — | — | — |
| | SCOP ⁽⁴⁾⁽⁵⁾ | | | | 4.0 | 4.3 | 4.1 | 3.9 | 4.2 | 4.2 | — | — | — | — |
| | Energy efficiency class | | | A+ | A+ | A+ | A | A+ | A+ | A+ | — | — | — | — |
| Operating Current(Max) | | | A | 14.2 | 14.4 | 20.9 | 20.9 | 28.8 | 10.3 | 28.8 | 11.8 | 30.6 | 15.6 | |
| Indoor Unit | Input (cooling / Heating) | | Rated | kW | 0.05 | 0.07 | 0.08 | 0.09 | 0.14 | 0.14 | 0.20 | 0.20 | 0.21 | 0.21 |
| | Operating Current(Max) | | A | 1.16 | 1.35 | 1.85 | 1.9 | 2.25 | 2.25 | 2.34 | 2.34 | 2.63 | 2.63 | |
| | Dimensions | | H*W*D | mm | 250x900x732 | 250x900x732 | 250x1100x732 | 250x1100x732 | 250x1400x732 | 250x1400x732 | 250x1400x732 | 250x1600x732 | 250x1600x732 | |
| | Weight | | kg | 25(24.5) | 26.5(25.5) | 29.5(29) | 29.5(29) | 37(36) | 37(36) | 38(37) | 38(37) | 42(41) | 42(41) | |
| | Air Volume (Lo-Mid-Hi) | | m³/min | 10.0-12.0-14.0 | 12.0-14.5-17.0 | 14.5-18.0-21.0 | 14.5-18.0-23.0 | 23.0-28.0-32.0 | 23.0-28.0-32.0 | 28.0-34.0-37.0 | 28.0-34.0-37.0 | 29.5-35.5-40.0 | 29.5-35.5-40.0 | |
| | External Static Pressure ⁽⁷⁾ | | Pa | 35<-50>-<70>-<100>-<150> | 35<-50>-<70>-<100>-<150> | 40<-50>-<70>-<100>-<150> | 40<-50>-<70>-<100>-<150> | 40<-50>-<70>-<100>-<150> | 40<-50>-<70>-<100>-<150> | 40<-50>-<70>-<100>-<150> | 40<-50>-<70>-<100>-<150> | 40<-50>-<70>-<100>-<150> | 40<-50>-<70>-<100>-<150> | |
| | Sound Level (Lo-Mid-Hi) (SPL) | | dB(A) | 24-29-32 | 27-33-35 | 26-32-35 | 26-32-37 | 31-36-39 | 31-36-39 | 35-39-41 | 35-39-41 | 34-38-41 | 34-38-41 | |
| | Sound Level (PWL) | | dB(A) | 54 | 58 | 56 | 58 | 62 | 62 | 66 | 66 | 66 | 66 | |
| | Dimensions | | H*W*D | mm | 630-800-300 | 630-800-300 | 943-950-330(+30) | 943-950-330(+30) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | |
| | Weight | | kg | 43 | 46 | 70 | 70 | 116 | 123 | 116 | 125 | 118 | 131 | |
| Outdoor Unit | 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 |
| | | | Heating | dB(A) | 65 | 65 | 67 | 67 | 69 | 69 | 70 | 70 | 70 | 70 |
| | Operating Current(Max) | | A | 13 | 13 | 19 | 19 | 26.5 | 8 | 26.5 | 9.5 | 28 | 13 | |
| | Breaker Size | | A | 16 | 16 | 25 | 25 | 32 | 16 | 32 | 16 | 40 | 16 | |
| | Ext.Piping Diameter ⁽⁶⁾ | | | 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 |
| | Guaranteed Operating Range (Outdoor) | | | Max.Length | Out-In | m | 50 | 50 | 50 | 50 | 75 | 75 | 75 | 75 |
| Max.Height | | | | Out-In | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Cooling ⁽³⁾ | | | | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | | | Heating | °C | -11 ~ +21 | -11 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | |

*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 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.

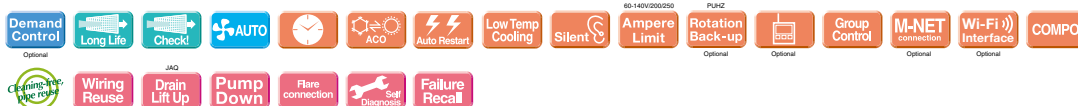
*5 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

*6 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

*7 The factory setting of ESP is shown without < > .

PEAD-M SERIES

STANDARD INVERTER



| Type | | | Inverter Heat Pump | | | | | | | | | | | |
|--------------------------------------|---|---------------------------------|--|--------------------------|----------------|----------------|--------------------------|-----------------|-----------------|-----------------|----------------------------|-----------------|----------------|--|
| Indoor Unit | | | PEAD-M35JAIIJ2 | PEAD-M50JAIIJ2 | PEAD-M60JAIIJ2 | PEAD-M71JAIIJ2 | PEAD-M100JAIIJ2 | PEAD-M100JAIIJ2 | PEAD-M125JAIIJ2 | PEAD-M125JAIIJ2 | PEAD-M140JAIIJ2 | PEAD-M140JAIIJ2 | | |
| Outdoor Unit | | | SUZ-KA35VA6 | SUZ-KA50VA6 | SUZ-KA60VA6 | SUZ-KA71VA6 | PUHZ-P100VKA | PUHZ-P100VKA | PUHZ-P125VKA | PUHZ-P125VKA | PUHZ-P140VKA | PUHZ-P140VKA | | |
| Refrigerant ⁽¹⁾ | | | R410A | | | | | | | | | | | |
| Power Supply | | | Outdoor power supply VA-VKA-230/Single/50, YKA-400/Three/50 | | | | | | | | | | | |
| Cooling | Source Outdoor(V/Phase/Hz) | | | | | | | | | | | | | |
| | Capacity | Rated | kW | 3.6 | 4.9 | 5.7 | 7.1 | 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 | 1.029 | 1.458 | 1.652 | 2.060 | 2.965 | 2.965 | 4.143 | 4.143 | 5.551 | 5.551 | |
| | EER ⁽⁴⁾ | | | 3.50 | 3.36 | 3.45 | 3.45 | 3.17 | 3.17 | 2.92 | 2.92 | 2.45 | 2.45 | |
| | Design load | | kW | 3.6 | 4.9 | 5.7 | 7.1 | 9.4 | 9.4 | — | — | — | — | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 210 | 284 | 326 | 395 | 596 | 596 | — | — | — | — | |
| SEER ⁽⁴⁾⁽⁵⁾ | | | | 6.0 | 6.0 | 6.1 | 6.2 | 5.5 | 5.5 | — | — | — | — | |
| | | | Energy efficiency class | | 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 | |
| | | 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 | |
| | Total Input | Rated | kW | 1.111 | 1.620 | 1.928 | 2.040 | 2.947 | 2.947 | 3.739 | 3.739 | 4.347 | 4.347 | |
| | COP ⁽⁴⁾ | | | 3.69 | 3.64 | 3.63 | 3.80 | 3.80 | 3.80 | 3.61 | 3.61 | 3.45 | 3.45 | |
| | 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) | — | — | — | — | |
| | Back up heating capacity | | kW | 0.3 | 0.5 | 0.4 | 0.7 | 2.0 | 2.0 | — | — | — | — | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 975 | 1455 | 1559 | 2132 | 2797 | 2797 | — | — | — | — | |
| SCOP ⁽⁴⁾⁽⁵⁾ | | | | 4.0 | 4.2 | 4.0 | 3.9 | 4.0 | 4.0 | — | — | — | | |
| | | | Energy efficiency class | | A+ | A+ | A+ | A | A+ | A+ | — | — | — | |
| Operating Current(Max) | | | A | 9.4 | 13.4 | 15.9 | 18.0 | 22.3 | 13.8 | 27.8 | 12.8 | 31.4 | 12.9 | |
| Indoor Unit | Input (cooling / Heating) | Rated | kW | 0.05 | 0.07 | 0.08 | 0.09 | 0.14 | 0.14 | 0.20 | 0.20 | 0.21 | 0.21 | |
| | Operating Current(Max) | | A | 1.16 | 1.35 | 1.85 | 1.9 | 2.25 | 2.25 | 2.34 | 2.34 | 2.63 | 2.63 | |
| | Dimensions | H*W*D | mm | 250×900×732 | 250×900×732 | 250×1100×732 | 250×1100×732 | 250×1400×732 | 250×1400×732 | 250×1400×732 | 250×1600×732 | 250×1600×732 | | |
| | Weight | | kg | 25(24.5) | 26.5(25.5) | 29.5(29) | 29.5(29) | 37(36) | 37(36) | 38(37) | 38(37) | 42(41) | 42(41) | |
| | Air Volume (Lo-Mid-Hi) | | m³/min | 10.0-12.0-14.0 | 12.0-14.5-17.0 | 14.5-18.0-21.0 | 14.5-18.0-23.0 | 23.0-28.0-32.0 | 23.0-28.0-32.0 | 28.0-34.0-37.0 | 28.0-34.0-37.0 | 29.5-35.5-40.0 | 29.5-35.5-40.0 | |
| | External Static Pressure ⁽⁷⁾ | | Pa | 35~<50>~<70>~<100>~<150> | | | 40~<50>~<70>~<100>~<150> | | | | <40>~<50>~<70>~<100>~<150> | | | |
| | Sound Level (Lo-Mid-Hi) (SPL) | | dB(A) | 24-29-32 | 27-33-35 | 26-32-35 | 26-32-37 | 31-36-39 | 31-36-39 | 35-39-41 | 35-39-41 | 36-39-41 | 34-38-41 | |
| | Sound Level (PWL) | | dB(A) | 54 | 58 | 56 | 58 | 62 | 62 | 66 | 66 | 66 | 66 | |
| | Dimensions | H*W*D | mm | 550-800-285 | 880-840-330 | 880-840-330 | 880-840-330 | 981-1050-330 | 981-1050-330 | 981-1050-330 | 981-1050-330 | 981-1050-330 | 981-1050-330 | |
| | Weight | | kg | 35 | 54 | 50 | 53 | 76 | 78 | 84 | 85 | 84 | 85 | |
| Outdoor Unit | 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) | | A | 8.2 | 12 | 14 | 16.1 | 20 | 11.5 | 26.5 | 11.5 | 30 | 11.5 | |
| Breaker Size | | | A | 10 | 20 | 20 | 20 | 32 | 16 | 32 | 16 | 40 | 16 | |
| Ext.Piping | Diameter ⁽⁸⁾ | 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 | |
| | 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 | |
| Guaranteed Operating Range (Outdoor) | | | Cooling ⁽³⁾ | °C | -10 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | |
| | | | Heating | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | |

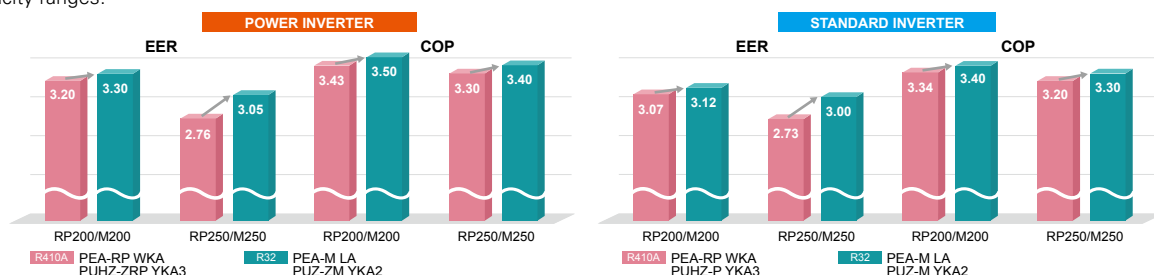
PEA SERIES



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.

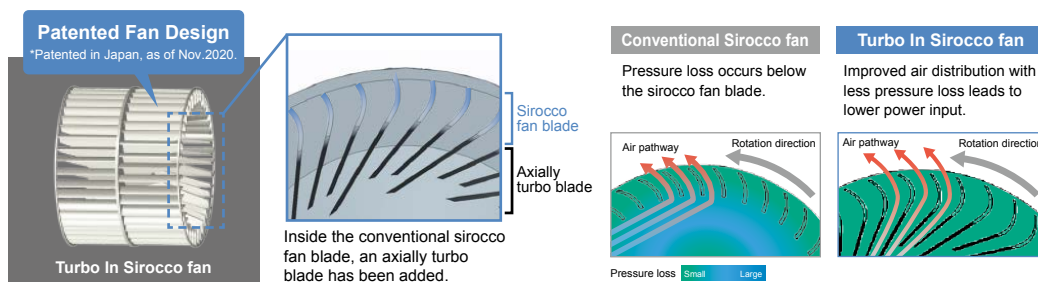
Improved Energy Efficiency

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

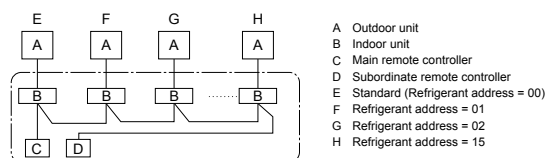
200Pa setting is newly added enabling total of five static pressure level. The ability to select additional static pressure enables long duct and more freedom in design.

PEA-M200/250LA <60>/75/<100>/<150>/<200> Pa

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-41MAA Group Control

The PAR-41MAA remote controller can control up to 16 systems as a group, and is ideal for supporting the integrated management of building air conditioners.



LINE-UP

Indoor Unit



Outdoor Unit

Power Inverter Series



Standard Inverter Series



Power Inverter Series



Standard Inverter Series



Remote Controller



PEA-M SERIES

POWER INVERTER



| Type | | | | Inverter Heat Pump | | | |
|--------------------------------------|-----------------------------------|-------------------------|---------|--------------------------------------|-----------|--|-----------|
| Indoor Unit | | | | PEA-M200LA | | PEA-M250LA | |
| Outdoor Unit | | | | PUZ-ZM200YKA2 | | PUZ-ZM250YKA2 | |
| Refrigerant ⁽¹⁾ | | | | R32 | | | |
| Power Supply | | | | Separate power supply | | | |
| Cooling | Source Outdoor(V/Phase/Hz) | | | 400/Three/50 | | | |
| | 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 | |
| Heating | Capacity | Rated | kW | 22.4 | | 27.0 | |
| | | Min-Max | kW | 7.1 - 25 | | 7.3 - 31 | |
| | Total Input | Rated | kW | 6.400 | | 7.941 | |
| | COP | | | 3.50 | | 3.40 | |
| | | | | 25.7 | | 25.9 | |
| Indoor Unit | Input (cooling / Heating) | | Rated | kW | 0.35/0.35 | | 0.53/0.53 |
| | Operating Current(Max) | | A | 3.1 | | 3.4 | |
| | Dimensions | | H*W*D | mm | | 470 - 1370 - 1120 | |
| | Weight | | kg | 87 | | | |
| | Air Volume (Lo-Mi2-Mi1-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 Pressure | | Pa | (60)/75/(100)/(150)/(200) | | | |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | dB(A) | 35-40-43 | | 38-43-47 | |
| | Sound Level (PWL) | | dB(A) | 63-64-64 | | 67-67-68 | |
| Outdoor Unit | Dimensions | | H*W*D | mm | | 1338-1050-330(+40) | |
| | Weight | | kg | 137 | | 138 | |
| | Air Volume | | Cooling | m³/min | 140 | | 140 |
| | | | Heating | m³/min | 140 | | 140 |
| | Sound Level (SPL) | | Cooling | dB(A) | 59 | | 59 |
| | | | Heating | dB(A) | 62 | | 62 |
| | Sound Level (PWL) | | Cooling | dB(A) | 77 | | 77 |
| | Operating Current(Max) | | A | 22.5 | | 22.5 | |
| | Breaker Size | | A | 32 | | 32 | |
| | Ext.Piping | Diameter ⁽²⁾ | | Liquid/Gas | mm | 9.52 / 25.4 | |
| Max.Length | | Out-In | m | 100 | | 100 | |
| Max.Height | | Out-In | m | 30 | | 30 | |
| Guaranteed Operating Range (Outdoor) | | Cooling ⁽²⁾ | °C | -15--+46 | | -15--+46 | |
| | | Heating | °C | -20--+21 | | -20--+21 | |

*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 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.

*3 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PEA-M SERIES

STANDARD INVERTER



| Type | | | | Inverter Heat Pump | | | | |
|--------------------------------------|-----------------------------------|-------------------------|------------------------|--------------------------------------|--------------------|--|-----------|--|
| Indoor Unit | | | | PEA-M200LA | | PEA-M250LA | | |
| Outdoor Unit | | | | PUZ-M200YKA2 | | PUZ-M250YKA2 | | |
| Refrigerant ⁽¹⁾ | | | | R32 | | | | |
| Power Supply | | | | Separate power supply | | | | |
| Cooling | | | | 400/Three/50 | | | | |
| | Source Outdoor(V/Phase/Hz) | | | | | | | |
| | 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 | | |
| Heating | Capacity | Rated | kW | 22.4 | | 27.0 | | |
| | | Min-Max | kW | 6.8 - 25 | | 7.3 - 31 | | |
| | Total Input | Rated | kW | 6.588 | | 8.181 | | |
| | COP | | | 3.40 | | 3.30 | | |
| | | | | | | | | |
| Operating | Current(Max) | | A | 25.7 | | 25.9 | | |
| Indoor Unit | Input [cooling / Heating] | | Rated | kW | 0.35/0.35 | | 0.53/0.53 | |
| | Operating Current(Max) | | A | 3.1 | | 3.4 | | |
| | Dimensions | | H*W*D | mm | 470 - 1370 - 1120 | | | |
| | Weight | | kg | 87 | | | | |
| | Air Volume (Lo-Mi2-Mi1-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 Pressure | | Pa | (60)/75/(100)/(150)/(200) | | | | |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | dB(A) | 35-40-43 | | 38-43-47 | | |
| | Sound Level (PWL) | | dB(A) | 63-64-64 | | 67-67-68 | | |
| | | | | | | | | |
| | | | | | | | | |
| Outdoor Unit | Dimensions | | H*W*D | mm | 1338-1050-330(+40) | | | |
| | Weight | | kg | 129 | | | | |
| | Air Volume | | Cooling | m³/min | 140 | | | |
| | | | Heating | m³/min | 140 | | | |
| | Sound Level (SPL) | | Cooling | dB(A) | 58 | | | |
| | | | Heating | dB(A) | 60 | | | |
| | Sound Level (PWL) | | Cooling | dB(A) | 78 | | | |
| | | | Operating Current(Max) | A | 22.5 | | | |
| | Breaker Size | | A | 32 | | | | |
| | Ext.Piping | Diameter ⁽²⁾ | | Liquid/Gas | mm | 9.52 / 25.4 | | |
| Max.Length | | Out-In | m | 70 | | | | |
| Max.Height | | Out-In | m | 30 | | | | |
| Guaranteed Operating Range (Outdoor) | | Cooling ⁽²⁾ | °C | -15--+46 | | | | |
| | | Heating | °C | -20--+21 | | | | |

*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 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.

*3 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PEA-M SERIES

POWER INVERTER



| Type | | | Optional | Optional | Inverter Heat Pump | | |
|--------------------------------------|-------------------------------|---------------------------|--------------|--------------------------|------------------------|--|-----------|
| Indoor Unit | | | | | | | |
| Outdoor Unit | | | | PEA-M200LA | PEA-M250LA | | |
| Refrigerant ^(*)1) | | | | PUHZ-ZRP200YKA3 | R410A ^(*)1) | PUHZ-ZRP250YKA3 | |
| Power Supply | Source | | | Separate power supply | | | |
| | Outdoor (V/Phase/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 | | | 3.20 | | 2.76 | |
| Heating (Average Season) | Capacity | Rated | kW | - | | - | |
| | | Min - Max | kW | 22.4 | | 27.0 | |
| | Total Input | Rated | kW | 9.5 -25 | | 12.5 - 31 | |
| | COP | | | 6.530 | | 8.181 | |
| Operating Current (max) | | | | 3.43 | | 3.30 | |
| Indoor Unit | Input [Cooling / Heating] | Rated | kW | 22.2 | | 24.4 | |
| | Operating Current (max) | | A | 0.35 / 0.35 | | 0.53 / 0.53 | |
| | Dimensions | H x W x D | mm | 3.1 | | 3.4 | |
| | Weight | | kg | 87 | | | |
| | Air Volume [Lo-Mid-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 Pressure | | Pa | (60)/75(100)/(150)/(200) | | | |
| | Sound Level (SPL) [Lo-Mid-Hi] | | dB(A) | 35-40-43 | | 38-43-47 | |
| | Sound Level (PWL) | | dB(A) | 63-64-64 | | 67-67-68 | |
| | Dimensions | H x W x D | mm | 1338-1050-330(+40) | | 1338-1050-330(+40) | |
| | Weight | | kg | 135 | | 135 | |
| Outdoor Unit | Air Volume | Cooling | m³/min | 140 | | 140 | |
| | | Heating | m³/min | 140 | | 140 | |
| | Sound Level (SPL) | Cooling | dB(A) | 59 | | 59 | |
| | | Heating | dB(A) | 62 | | 62 | |
| | Sound Level (PWL) | Cooling | dB(A) | 77 | | 77 | |
| | | Heating | dB(A) | 77 | | 77 | |
| | Operating Current (max) | | A | 19 | | 21 | |
| | Breaker Size | | A | 32 | | 32 | |
| | Ext. Piping | Diameter ^(*)3) | Liquid / Gas | mm | 9.52/25.4 | | 12.7/25.4 |
| | | Max. Length | Out-In | m | 100 | | 100 |
| Max. Height | | Out-In | m | 30 | | 30 | |
| Guaranteed Operating Range (Outdoor) | | | | Cooling ^(*)2) | ℃ | -15 ~ +46 | |
| | | | | Heating | ℃ | -20 ~ +21 | |

*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 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.

*3 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PEA-M SERIES

STANDARD INVERTER



| Type | | | | Inverter Heat Pump | | | | |
|--------------------------------------|-------------------------------|---------------------------|--------------|---------------------------------------|--------------------|--|-----------|--|
| Indoor Unit | | | | PEA-M200LA | | PEA-M250LA | | |
| Outdoor Unit | | | | PUHZ-P200YKA3 | | PUHZ-P250YKA3 | | |
| Refrigerant ^(*)1) | | | | R410A ^(*)1) | | | | |
| Power Supply | Source | | | Separate power supply | | | | |
| | Outdoor (V/Phase/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 | 6.188 | | 8.058 | | |
| | EER | | | 3.07 | | 2.73 | | |
| Heating (Average Season) | Capacity | Rated | kW | 22.4 | | 27.0 | | |
| | | Min - Max | kW | 9.5-25 | | 12.5-31 | | |
| | Total Input | Rated | kW | 6.706 | | 8.437 | | |
| | COP | | | 3.34 | | 3.20 | | |
| Operating Current (max) | | | | 22.2 | | 24.4 | | |
| Indoor Unit | Input [Cooling / Heating] | Rated | kW | 0.35/0.35 | | 0.53/0.53 | | |
| | Operating Current (max) | | A | 3.1 | | 3.4 | | |
| | Dimensions | | H x W x D | 470-1370-1120 | | | | |
| | Weight | | kg | 87 | | | | |
| | Air Volume [Lo-Mid-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 Pressure | | Pa | (60)/75(100)/(150)/(200) | | | | |
| | Sound Level (SPL) [Lo-Mid-Hi] | | dB(A) | 35-40-43 | | 38-43-47 | | |
| | Sound Level (PWL) | | dB(A) | 63-64-64 | | 67-67-68 | | |
| | Outdoor Unit | Dimensions | | H x W x D | 1338-1050-330(+40) | | | |
| | | 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 Current (max) | | A | 19 | | 21 | |
| Breaker Size | | A | 32 | | 32 | | | |
| Ext. Piping | | Diameter ^(*)2) | Liquid / Gas | mm | 9.52/25.4 | | 12.7/25.4 | |
| | Max. Length | | m | 70 | | 70 | | |
| | Max. Height | | m | 30 | | 30 | | |
| Guaranteed Operating Range (Outdoor) | | | | Cooling ^(*)2) | | -15~+46 | | |
| | | | | Heating | | -20~+21 | | |

*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 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.

*3 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

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.

R32
R410A

PKA-M35/50LA(L)2

PKA-M60/71/100KA(L)2

R32
R410A



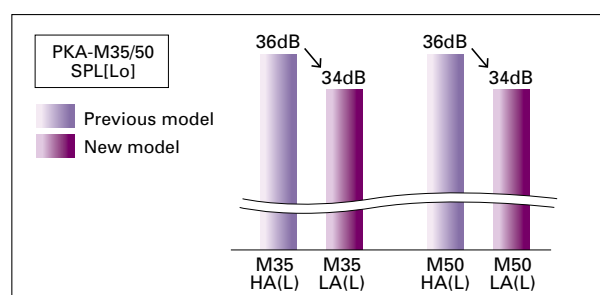
New Design (M35-50)

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.



New Wireless Remote Controller Included

The PKA-KAL2 series wireless remote controller has been updated. It now comes with a new stylish remote controller that fits comfortably in your hand and has a wide range of useful functions.

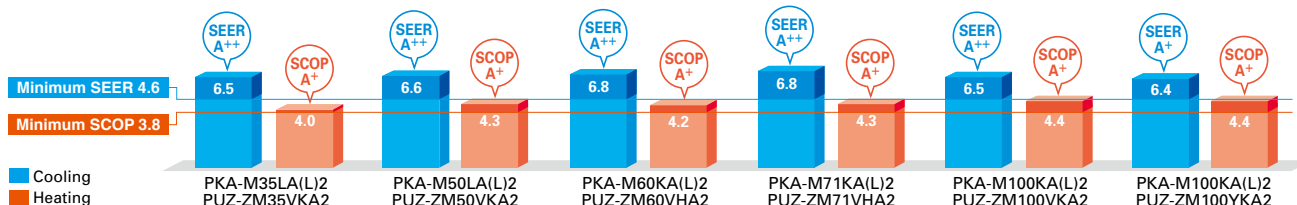


Main Functions of new Wireless Remote Controller

- Weekly Timer
- Backlight
- Dual set point
- Battery replacement sign etc...

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

Highly efficient indoor unit heat exchangers 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.

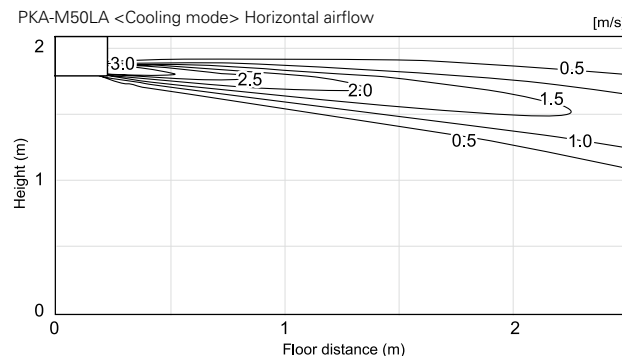


Airflow Control – Horizontal Airflow – (M35-50)

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.

Airflow distributions

PKA-M50LA <Cooling mode> Horizontal airflow



SERIES SELECTION

Power Inverter Series



Indoor Unit

R32
R410A



PKA-M35/50LA(L)2

R32
R410A



PKA-M60/71/100KA(L)2

Outdoor Unit

R32

For Single



PUZ-ZM35/50



PUZ-ZM60/71



PUZ-ZM100/125/140

R32

For Multi
(Twin/Triple/Quadruple)



PUZ-ZM71



PUZ-ZM100/125/140/200/250

Remote Controller



Optional (*)



Optional



Optional (*)



*PKA-M: LAL2 only

(*) PAC-SH29TC-E is required for LAL and KAL (optional)

PKA-M LA(L)2/KA(L)2 Indoor Unit Combinations Indoor unit combinations shown below are possible.

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------------|-----------------------|------|------|------|-------|-----|-----|-----|-----|--------------|------|------|------|--------------|-----|--------------|------|------|---------------|------|
| | | 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 (PUZ-ZM) | | 35x1 | 50x1 | 60x1 | 71x1 | 100x1 | — | — | — | — | 35x2 | 50x2 | 60x2 | 71x2 | 100x2 | — | 50x3 | 60x3 | 71x3 | 50x4 | 60x4 |
| | Distribution Pipe | — | — | — | — | — | — | — | — | — | MSDD-50TR2-E | | | | MSDD-50MR2-E | — | MSDT-111R3-E | | | MSDF-1111R2-E | |

SERIES SELECTION

Standard Inverter Series



Indoor Unit

R32
R410A



PKA-M35/50LA(L)2



PKA-M60/71/100KA(L)2

Outdoor Unit

R32

For Single



PUZ-M100

R32

For Multi
(Twin/Triple/Quadruple)



PUZ-M100/125/140



PUZ-M200/250

Remote Controller



Optional (*)



Optional



Optional (*)



*PKA-M: LAL2 only

(*) PAC-SH29TC-E is required for LAL and KAL (optional)

PKA-M LA(L)2/KA(L)2 Indoor Unit Combinations Indoor unit combinations shown below are possible.

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------|-----------------------|----|----|----|-------|-----|-----|-----|-----|----------|--------------|------|------|--------------|-----|--------------|------|------|---------------|------|
| | | 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 |
| Standard Inverter (PUZ-M) | | — | — | — | — | 100x1 | — | — | — | — | — | 50x2 | 60x2 | 71x2 | 100x2 | — | 50x3 | 60x3 | 71x3 | 50x4 | 60x4 |
| | Distribution Pipe | — | — | — | — | — | — | — | — | — | — | MSDD-50TR2-E | | | MSDD-50WR2-E | — | MSDT-111R3-E | | | MSDF-1111R2-E | |

PKA-M SERIES

POWER INVERTER



| Type | | | | Inverter Heat Pump | | | | | |
|---|---|---------------------------------|-----------|--------------------|---|------------------|------------------|--------------------|--------------------|
| Indoor Unit | | | | PKA-M35LA(L)2 | PKA-M50LA(L)2 | PKA-M60KA(L)2 | PKA-M71KA(L)2 | PKA-M100KA(L)2 | PKA-M100KA(L)2 |
| Outdoor Unit | | | | PUZ-ZM35VKA2 | PUZ-ZM50VKA2 | PUZ-ZM60VHA2 | PUZ-ZM71VHA2 | PUZ-ZM100VKA2 | PUZ-ZM100VKA2 |
| Refrigerant ⁽¹⁾ | | | | R32 | | | | | |
| Power Supply | Source | | | | Outdoor power supply | | | | |
| Cooling | Outdoor(V/Phase/Hz) | | | | VKA·VHA:230/Single/50, YKA:400/Three/50 | | | | |
| | 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 | 0.857 | 1.239 | 1.560 | 1.863 | 2.435 | 2.435 |
| | EER | | | 4.20 | 3.71 | 3.91 | 3.81 | 3.90 | 3.90 |
| | Design load | | kW | 3.6 | 4.6 | 6.1 | 7.1 | 9.5 | 9.5 |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 194 | 244 | 314 | 365 | 508 | 519 |
| | SEER ⁽⁴⁾ | | | 6.5 | 6.6 | 6.8 | 6.8 | 6.5 | 6.4 |
| | | Energy efficiency class | | A++ | A++ | A++ | A++ | A++ | A++ |
| | Heating | Capacity | Rated | kW | 4.1 | 5.0 | 7.0 | 8.0 | 11.2 |
| | | Min-Max | kW | 1.6 - 5.2 | 2.5 - 7.0 | 2.8 - 8.2 | 3.5 - 10.2 | 4.5 - 14.0 | 4.5 - 14.0 |
| Total Input | | Rated | kW | 1.040 | 1.344 | 1.732 | 2.116 | 3.102 | 3.102 |
| COP | | | | 3.94 | 3.72 | 4.04 | 3.78 | 3.61 | 3.61 |
| Design load | | | kW | 2.4 | 3.3 | 4.4 | 4.7 | 7.8 | 7.8 |
| Declared Capacity | | at reference design 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 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 | 2.2 (-11°C) | 3.2 (-11°C) | 2.8 (-20°C) | 3.4 (-20°C) | 5.8 (-20°C) | 5.8 (-20°C) |
| Back up heating capacity | | | kW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Annual electricity consumption ⁽²⁾ | | | kWh/a | 829 | 1074 | 1464 | 1530 | 2477 | 2478 |
| SCOP ⁽⁴⁾ | | | 4.0 | 4.3 | 4.2 | 4.3 | 4.4 | 4.4 | |
| | Energy efficiency class | | A+ | A+ | A+ | A+ | A+ | A+ | |
| Operating Current(Max) | | | A | 13.4 | 13.4 | 19.4 | 19.4 | 20.6 | 8.6 |
| Indoor Unit | Input [cooling / Heating] | 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 |
| | Operating Current(Max) | | A | 0.35 | 0.35 | 0.43 | 0.43 | 0.57 | 0.57 |
| | Dimensions | H*W*D | mm | 299-898-237 | 299-898-237 | 365-1170-295 | 365-1170-295 | 365-1170-295 | 365-1170-295 |
| | Weight | | kg | 12.6 | 12.6 | 21 | 21 | 21 | 21 |
| | Air Volume (Lo-Mi2-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 (Lo-Mi2-Mi1-Hi) (SPL) | | 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 | 630-809-300 | 630-809-300 | 943-950-330(+25) | 943-950-330(+25) | 1338-1050-330(+40) | 1338-1050-330(+40) |
| | Weight | | kg | 46 | 46 | 67 | 67 | 105 | 111 |
| | Air Volume | Cooling | m³/min | 45 | 45 | 55 | 55 | 110 | 110 |
| Outdoor Unit | Air Volume | Heating | m³/min | 45 | 45 | 55 | 55 | 110 | 110 |
| | Sound Level (SPL) | Cooling | dB(A) | 44 | 44 | 47 | 47 | 49 | 49 |
| | Sound Level (SPL) | Heating | dB(A) | 46 | 46 | 49 | 49 | 51 | 51 |
| | Sound Level (PWL) | Cooling | dB(A) | 65 | 65 | 67 | 67 | 69 | 69 |
| | Operating Current(Max) | | A | 13 | 13 | 19 | 19 | 20 | 8 |
| | Breaker Size | | A | 16 | 16 | 25 | 25 | 32 | 16 |
| | Ext.Piping | Diameter ⁽³⁾ | 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 | 55 | 55 | 100 |
| | | Max.Height | Out-In | m | 30 | 30 | 30 | 30 | 30 |
| | Guaranteed Operating Range (Outdoor) | Cooling ⁽³⁾ | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| Heating | | °C | -11 ~ +21 | -11 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | |

*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 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 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.

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PKA-M SERIES

STANDARD INVERTER



| Type | | | | Inverter Heat Pump | | | | |
|---|---|---------------------------------|------------|---|--------------|-------------------|--------------|--|
| Indoor Unit | | | | PKA-M100KA(L)2 | | | | |
| Outdoor Unit | | | | PUZ-M100VKA2 | | PUZ-M100YKA2 | | |
| Refrigerant ⁽¹⁾ | | | | R32 | | | | |
| Power Supply | | | | Outdoor power supply | | | | |
| Cooling | | | | VKA・VHA:230/Single/50, YKA:400/Three/50 | | | | |
| | Capacity | Rated | kW | 9.5 | | 9.5 | | |
| | | Min-Max | kW | 4.0 - 10.6 | | 4.0 - 10.6 | | |
| | Total Input | Rated | kW | 2.941 | | 2.941 | | |
| | EER | | | 3.23 | | 3.23 | | |
| | Design load | | kW | 9.5 | | 9.5 | | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 573 | | 573 | | |
| | SEER ⁽⁴⁾ | | | 5.8 | | 5.8 | | |
| | Energy efficiency class | | | A+ | | A+ | | |
| | Heating | Capacity | Rated | kW | 11.2 | | 11.2 | |
| | | | Min-Max | kW | 2.8 - 12.5 | | 2.8 - 12.5 | |
| Total Input | | Rated | kW | 3.284 | | 3.284 | | |
| COP | | | | 3.41 | | 3.41 | | |
| 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 | 2780 | | 2780 | | |
| SCOP ⁽⁴⁾ | | | 4.0 | | 4.0 | | | |
| Energy efficiency class | | | A+ | | A+ | | | |
| Operating Current(Max) | | | | A | | 20.6 | | |
| Indoor Unit | Input [cooling / Heating] | Rated | kW | 0.08 / 0.07 | | 0.08 / 0.07 | | |
| | Operating Current(Max) | | A | 0.57 | | 0.57 | | |
| | Dimensions | H*W*D | mm | 365-1170-295 | | 365-1170-295 | | |
| | Weight | | kg | 21 | | 21 | | |
| | Air Volume (Lo-Mi2-Mi1-Hi) | | m³/min | 20-23-26 | | 20-23-26 | | |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | dB(A) | 41-45-49 | | 41-45-49 | | |
| | Sound Level (PWL) | | dB(A) | 65 | | 65 | | |
| | Dimensions | H*W*D | mm | 981-1050-330 (+40) | | 981-1050-330(+40) | | |
| Outdoor Unit | Weight | | kg | 76 | | 78 | | |
| | Air Volume | Cooling | m³/min | 79 | | 79 | | |
| | | Heating | m³/min | 79 | | 79 | | |
| | Sound Level (SPL) | Cooling | dB(A) | 51 | | 51 | | |
| | | Heating | dB(A) | 54 | | 54 | | |
| | Sound Level (PWL) | Cooling | dB(A) | 70 | | 70 | | |
| | | Operating Current(Max) | | A | 20.0 | | 11.5 | |
| | Breaker Size | | A | 32 | | 16 | | |
| | Ext.Piping | Diameter ⁽³⁾ | Liquid/Gas | mm | 9.52 / 15.88 | | 9.52 / 15.88 | |
| | | Max.Length | Out-In | m | 55 | | 55 | |
| Max.Height | | Out-In | m | 30 | | 30 | | |
| Guaranteed Operating Range (Outdoor) | | Cooling ⁽³⁾ | °C | -15 ~ +46 | | -15 ~ +46 | | |
| | Heating | °C | -15 ~ +21 | | -15 ~ +21 | | | |

*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 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 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. *5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

SERIES SELECTION

Power Inverter Series



Indoor Unit

R32
R410A



PKA-M35/50LA(L)2



PKA-M60/71/100KA(L)2

Outdoor Unit

R410A

For Single



PUAH-ZRP35/50



PUAH-ZRP60/71



PUAH-ZRP100

R410A

For Multi
(Twin/Triple/Quadruple)



PUAH-ZRP71



PUAH-ZRP100/125/140/200/250

Remote Controller



Optional (*)



Optional



Optional (*)



*PKA-M·LAL2 only

(*) PAC-SH29TC-E is required for LAL and KAL (optional)

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

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------|-----------------------|------|------|------|-------|-----|-----|-----|-----|-------------|------|------|------|-------------|-----|-------------|------|------|---------------|------|
| | | 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-50TR-E | | | | MSDD-50WR-E | — | MSDT-111R-E | | | MSDF-1111R-E | |

SERIES SELECTION

Standard Inverter Series



Indoor Unit

R32
R410A



PKA-M35/50LA(L)2



PKA-M60/71/100KA(L)2

Outdoor Unit

R410A

For Single



PUAH-P100

R410A

For Multi
(Twin/Triple/Quadruple)



PUAH-P100/125/140



PUAH-P200/250

Remote Controller



Optional (*)



Optional



Optional (*)



*PKA-M·LAL2 only

(*) PAC-SH29TC-E is required for LAL and KAL (optional)

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

| Indoor Unit Combination | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|----------------------------|-----------------------|----|----|----|-------|-----|-----|-----|-----|----------|-------------|------|------|-------------|-----|-------------|------|------|---------------|------|
| | 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 |
| Standard Inverter (PUHZ-P) | — | — | — | — | 100x1 | — | — | — | — | — | 50x2 | 60x2 | 71x2 | 100x2 | — | 50x3 | 60x3 | 71x3 | 50x4 | 60x4 |
| Distribution Pipe | — | — | — | — | — | — | — | — | — | — | MSDD-50TR-E | | | MSDD-50WR-E | — | MSDT-111R-E | | | MSDF-1111R-E | |

PKA-M SERIES

POWER INVERTER



| Type | | | | Inverter Heat Pump | | | | | |
|--------------------------------------|---|---------------------------------|--------|---|------------------|------------------|------------------|--------------------|--------------------|
| Indoor Unit | | | | PKA-M35LA(L)2 | PKA-M50LA(L)2 | PKA-M60KA(L)2 | PKA-M71KA(L)2 | PKA-M100KA(L)2 | PKA-M100KA(L)2 |
| Outdoor Unit | | | | PUHZ-ZRP35VKA2 | PUHZ-ZRP50VKA2 | PUZ-ZRP60VHA2 | PUHZ-ZRP71VHA2 | PUHZ-ZRP100VKA3 | PUHZ-ZRP100YKA3 |
| Refrigerant ⁽¹⁾ | | | | R410A | | | | | |
| Power Source | | | | Outdoor power supply | | | | | |
| Supply Outdoor(V/Phase/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 - 5.4 | 2.7 - 6.7 | 3.3 - 8.1 | 4.9 - 11.4 | 4.9 - 11.4 |
| | Total Input | Rated | kW | 0.940 | 1.424 | 1.601 | 1.802 | 2.398 | 2.398 |
| | EER | | | 3.80 | 3.23 | 3.81 | 3.94 | 3.96 | 3.96 |
| | Design load | | kW | 3.6 | 4.6 | 6.1 | 7.1 | 9.5 | 9.5 |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 206 | 263 | 324 | 367 | 522 | 532 |
| Heating | SEER ⁽⁴⁾ | | | 6.1 | 6.1 | 6.5 | 6.7 | 6.3 | 6.2 |
| | Energy efficiency class | | | A++ | A++ | A++ | A++ | A++ | A++ |
| | Capacity | Rated | kW | 4.1 | 5.0 | 7.0 | 8.0 | 11.2 | 11.2 |
| | | 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 |
| | Total Input | Rated | kW | 1.070 | 1.501 | 1.960 | 2.191 | 3.043 | 3.043 |
| | COP | | | 3.83 | 3.33 | 3.57 | 3.65 | 3.68 | 3.68 |
| | Design load | | kW | 2.4 | 3.3 | 4.4 | 4.7 | 7.8 | 7.8 |
| | Declared Capacity | at reference design 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 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 | 2.2 (-11°C) | 3.2 (-11°C) | 2.8 (-20°C) | 3.5 (-20°C) | 5.8 (-20°C) | 5.8 (-20°C) |
| Operating | Back up heating capacity | | kW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 841 | 1126 | 1466 | 1529 | 2659 | 2660 |
| | SCOP ⁽⁴⁾ | | | 3.9 | 4.1 | 4.2 | 4.3 | 4.1 | 4.1 |
| | Energy efficiency class | | | A | A+ | A+ | A+ | A+ | A+ |
| | Current(Max) | | A | 13.4 | 13.4 | 19.4 | 19.4 | 27.1 | 8.6 |
| | Input [cooling / Heating] | 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 |
| Indoor Unit | Operating Current(Max) | | A | 0.35 | 0.35 | 0.43 | 0.43 | 0.57 | 0.57 |
| | Dimensions | H*W*D | mm | 299-898-237 | 299-898-237 | 365-1170-295 | 365-1170-295 | 365-1170-295 | 365-1170-295 |
| | Weight | | kg | 12.6 | 12.6 | 21 | 21 | 21 | 21 |
| | Air Volume (Lo-Mi2-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 (Lo-Mi2-Mi1-Hi) (SPL) | | 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 |
| Outdoor Unit | Dimensions | H*W*D | mm | 630-809-300 | 630-809-300 | 943-950-330(+30) | 943-950-330(+30) | 1338-1050-330(+40) | 1338-1050-330(+40) |
| | 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 |
| Ext.Piping | Sound Level (PWL) | Cooling | dB(A) | 65 | 65 | 67 | 67 | 69 | 69 |
| | Operating Current(Max) | | A | 13 | 13 | 19 | 19 | 26.5 | 8 |
| | Breaker Size | | A | 16 | 16 | 25 | 25 | 32 | 16 |
| | Diameter ⁽⁵⁾ | 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 | 50 | 50 | 75 | 75 |
| | Max.Height | Out-In | m | 30 | 30 | 30 | 30 | 30 | 30 |
| Guaranteed Operating Range (Outdoor) | | | | Cooling ⁽³⁾ | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | | | | Heating | °C | -11 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 |

*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 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 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.

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PKA-M SERIES

STANDARD INVERTER



| Type | | | | Inverter Heat Pump | | | | | |
|--------------------------------------|---|---------------------------------|--------|---|----|-----------|-----------|-----------|-----------|
| Indoor Unit | | | | PKA-M100KA(L)2 | | | | | |
| Outdoor Unit | | | | PUHZ-P100VKA | | | | | |
| Refrigerant ⁽¹⁾ | | | | R410A | | | | | |
| Power Source | | | | Outdoor power supply | | | | | |
| Supply Outdoor(V/Phase/Hz) | | | | VKA-VHA:230/Single/50, YKA:400/Three/50 | | | | | |
| Cooling | Capacity | Rated | kW | 9.4 | | | | | |
| | | Min-Max | kW | 3.7 - 10.6 | | | | | |
| | Total Input | Rated | kW | 3.122 | | | | | |
| | EER | | | 3.01 | | | | | |
| | Design load | | kW | 9.4 | | | | | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 586 | | | | | |
| Heating | SEER ⁽⁴⁾ | | | 5.6 | | | | | |
| | Energy efficiency class | | | A+ | | | | | |
| | Capacity | Rated | kW | 11.2 | | | | | |
| | | Min-Max | kW | 2.8 - 12.5 | | | | | |
| | Total Input | Rated | kW | 3.489 | | | | | |
| | COP | | | 3.21 | | | | | |
| | Design load | | kW | 8.0 | | | | | |
| | Declared Capacity | at reference design temperature | kW | 6.0 (-10°C) | | | | | |
| | | at bivalent temperature | kW | 7.0 (-7°C) | | | | | |
| | | at operation limit temperature | kW | 4.5 (-15°C) | | | | | |
| Operating | Back up heating capacity | | kW | 2.0 | | | | | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 2799 | | | | | |
| | SCOP ⁽⁴⁾ | | | 4.0 | | | | | |
| | Energy efficiency class | | | A+ | | | | | |
| | Current(Max) | | A | 20.6 | | | | | |
| | Input [cooling / Heating] | Rated | kW | 0.08 / 0.07 | | | | | |
| Indoor Unit | Operating Current(Max) | | A | 0.57 | | | | | |
| | Dimensions | H*W*D | mm | 365-1170-295 | | | | | |
| | Weight | | kg | 21 | | | | | |
| | Air Volume (Lo-Mi2-Mi1-Hi) | | m³/min | 20-23-26 | | | | | |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | dB(A) | 41-45-49 | | | | | |
| | Sound Level (PWL) | | dB(A) | 65 | | | | | |
| Outdoor Unit | Dimensions | H*W*D | mm | 981-1050-330 | | | | | |
| | Weight | | kg | 76 | | | | | |
| | Air Volume | Cooling | m³/min | 79 | | | | | |
| | | Heating | m³/min | 79 | | | | | |
| | Sound Level (SPL) | Cooling | dB(A) | 51 | | | | | |
| | | Heating | dB(A) | 54 | | | | | |
| Ext.Piping | Sound Level (PWL) | Cooling | dB(A) | 70 | | | | | |
| | Operating Current(Max) | | A | 20 | | | | | |
| | Breaker Size | | A | 32 | | | | | |
| | Diameter ⁽⁵⁾ | Liquid/Gas | mm | 9.52 / 15.88 | | | | | |
| | Max.Length | Out-In | m | 50 | | | | | |
| | Max.Height | Out-In | m | 30 | | | | | |
| Guaranteed Operating Range (Outdoor) | | | | Cooling ⁽³⁾ | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | | | | Heating | °C | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 |

*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 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 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.

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PCA-KA SERIES

R32
R410A

PCA-M35/50/60/71/100/125/140KA2

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

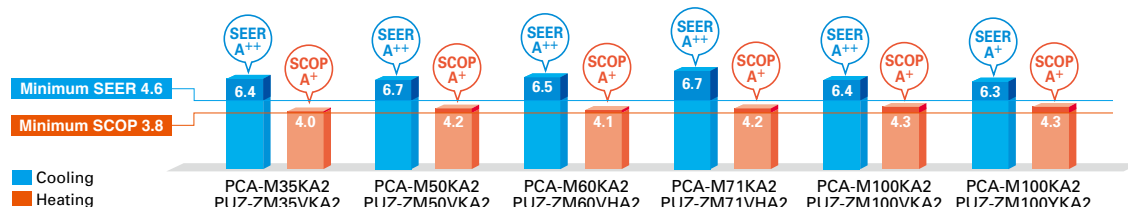
A stylish square-like design is adopted for the indoor units of all models. As a result, the units blend in better with the ceiling.



PCA-KA

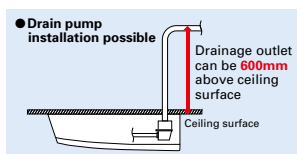
ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

A direct-current (DC) fan motor is installed 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.



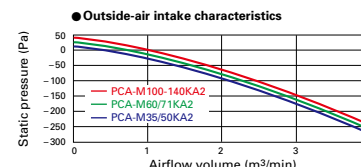
Optional Drain Pump for Full-capacity Models

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



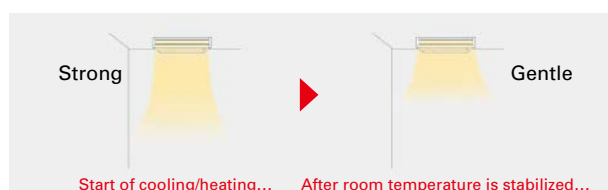
Outside-air Intake

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 ceiling | Standard ceiling | Low 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 |

SERIES SELECTION

Power Inverter Series



Indoor Unit

R32
R410A



PCA-M35/50/60/71/100/125/140KA2

Outdoor Unit

R32

For Single



PUZ-ZM35/50



PUZ-ZM60/71



PUZ-ZM100/125/140

R32

For Multi
(Twin/Triple/Quadruple)



PUZ-ZM71



PUZ-ZM100/125/140/200/250

Remote Controller



Optional



Optional



Optional



Optional



Optional

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

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------------|-----------------------|------|------|------|-------|-------|-------|-----|-----|--------------|------|------|------|--------------|-------|--------------|------|------|---------------|------|
| | | 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 (PUZ-ZM) | | 35x1 | 50x1 | 60x1 | 71x1 | 100x1 | 125x1 | 140x1 | — | — | 35x2 | 50x2 | 60x2 | 71x2 | 100x2 | 125x2 | 50x3 | 60x3 | 71x3 | 50x4 | 60x4 |
| | Distribution Pipe | — | — | — | — | — | — | — | — | — | MSDD-50TR2-E | | | | MSDD-50WR2-E | | MSDT-111R3-E | | | MSDF-111R2-E | |

SERIES SELECTION

Standard Inverter Series



Indoor Unit

R32
R410A



PCA-M35/50/60/71/100/125/140KA2

Outdoor Unit

R32

For Single



SUZ-M35



SUZ-M50



SUZ-M60/71



PUZ-M100/125/140

R32

For Multi
(Twin/Triple/Quadruple)



PUZ-M100/125/140



PUZ-M200/250

Remote Controller



Optional



Optional



Optional



Optional



Optional

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

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------------------|-----------------------|------|------|------|-------|-------|-------|-----|-----|----------|--------------|------|------|--------------|--------------|------------|------|--------------|---------------|------|
| | | 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 |
| Standard Inverter (PUZ-M&SUZ) | | 35x1 | 50x1 | 60x1 | 71x1 | 100x1 | 125x1 | 140x1 | — | — | — | 50x2 | 60x2 | 71x2 | 100x2 | 125x2 | 50x3 | 60x3 | 71x3 | 50x4 | 60x4 |
| | Distribution Pipe | — | — | — | — | — | — | — | — | — | — | MSDD-50TR2-E | | | MSDD-50WB2-E | MSDT-111R3-E | | | MSDF-111B2-E | | |

PCA-M KA SERIES

POWER INVERTER



| Type | | | | Inverter Heat Pump | | | | | | | | | | | |
|--------------------------------------|---|--|---------------------------------|---|--------------|--------------|--------------|---------------|------------------|---------------|------------------|---------------|--------------------|-------------|-----------|
| Indoor Unit | | | | PCA-M35KA2 | PCA-M50KA2 | PCA-M60KA2 | PCA-M71KA2 | PCA-M100KA2 | PCA-M100KA2 | PCA-M125KA2 | PCA-M125KA2 | PCA-M140KA2 | PCA-M140KA2 | | |
| Outdoor Unit | | | | PUZ-ZM35KA2 | PUZ-ZM50VKA2 | PUZ-ZM60VHA2 | PUZ-ZM71VHA2 | PUZ-ZM100VKA2 | PUZ-ZM100VKA2 | PUZ-ZM125VKA2 | PUZ-ZM125VKA2 | PUZ-ZM140VKA2 | PUZ-ZM140VKA2 | | |
| Refrigerant ^(*) | | | | R32 | | | | | | | | | | | |
| Power Source | | | | Outdoor power supply | | | | | | | | | | | |
| Supply | | | | 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 - 6.7 | 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 | 0.829 | 1.250 | 1.521 | 1.829 | 2.375 | 2.375 | 3.846 | 3.846 | 3.941 | 3.941 | |
| | EER | | | | 4.34 | 4.00 | 4.01 | 3.88 | 4.00 | 4.00 | 3.25 | 3.25 | 3.40 | 3.40 | |
| | Design load | | | kW | 3.6 | 5.0 | 6.1 | 7.1 | 9.5 | 9.5 | — | — | — | — | |
| | Annual electricity consumption ^(*) | | | kWh/a | 197 | 260 | 328 | 371 | 516 | 527 | — | — | — | — | |
| | SEER ^(*) | | | | 6.4 | 6.7 | 6.5 | 6.7 | 6.4 | 6.3 | — | — | — | — | |
| | Energy efficiency class | | | | A++ | A++ | A++ | A++ | A++ | A++ | — | — | — | — | |
| Heating | Capacity | | Rated | kW | 4.1 | 5.5 | 7.0 | 8.0 | 11.2 | 11.2 | 14.0 | 14.0 | 16.0 | 16.0 | |
| | 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 | |
| | Total Input | | Rated | kW | 1.019 | 1.361 | 1.745 | 2.156 | 3.018 | 3.018 | 3.954 | 3.954 | 4.432 | 4.432 | |
| | COP | | | | 4.02 | 4.04 | 4.01 | 3.71 | 3.71 | 3.71 | 3.54 | 3.54 | 3.61 | 3.61 | |
| | Design load | | | kW | 2.4 | 3.8 | 4.4 | 4.7 | 7.8 | 7.8 | — | — | — | — | |
| | Declared Capacity | | at reference design 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 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) | 3.4 (-20°C) | 5.8 (-20°C) | 5.8 (-20°C) | — | — | — | — | |
| | Back up heating capacity | | | kW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | — | — | — | — | |
| | Annual electricity consumption ^(*) | | | kWh/a | 838 | 1266 | 1501 | 1567 | 2536 | 2537 | — | — | — | — | |
| | SCOP ^(*) | | | | 4.0 | 4.2 | 4.1 | 4.2 | 4.3 | 4.3 | — | — | — | — | |
| | Energy efficiency class | | | | A+ | A+ | A+ | A+ | A+ | A+ | — | — | — | — | |
| Operating Current(Max) | | | | A | 13.3 | 13.4 | 19.4 | 19.4 | 20.7 | 8.7 | 27.3 | 9.8 | 30.9 | 12.7 | |
| Indoor Unit | Input [cooling / Heating] | | Rated | kW | 0.04 / 0.04 | 0.05 / 0.05 | 0.06 / 0.06 | 0.06 / 0.06 | 0.09 / 0.09 | 0.09 / 0.09 | 0.11 / 0.11 | 0.11 / 0.11 | 0.14 / 0.14 | 0.14 / 0.14 | |
| | Operating Current(Max) | | | A | 0.29 | 0.37 | 0.39 | 0.42 | 0.65 | 0.65 | 0.76 | 0.76 | 0.90 | 0.90 | |
| | Dimensions | | H*W*D | mm | 230-960-680 | | 230-1280-680 | | 230-1600-680 | | 230-1600-680 | | 230-1600-680 | | |
| | Weight | | | kg | 25 | 26 | 32 | 32 | 37 | 37 | 38 | 38 | 40 | 40 | |
| | Air Volume (Lo-Mi2-Mi1-Hi) | | | m³/min | 10-11-12-14 | 10-11-13-15 | 15-16-17-19 | 16-17-18-20 | 22-24-26-28 | 22-24-26-28 | 23-25-27-29 | 23-25-27-29 | 24-26-29-32 | 24-26-29-32 | |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | | dB(A) | 31-33-36-39 | 32-34-37-40 | 33-35-37-40 | 35-37-39-41 | 37-39-41-43 | 37-39-41-43 | 39-41-43-45 | 39-41-43-45 | 41-43-45-48 | 41-43-45-48 | |
| | Sound Level (PWL) | | | dB(A) | 60 | 60 | 60 | 62 | 63 | 63 | 65 | 65 | 68 | 68 | |
| | Dimensions | | H*W*D | mm | 630-809-300 | | 630-809-300 | | 943-950-330(+25) | | 943-950-330(+25) | | 1338-1050-330(+40) | | |
| | Weight | | | kg | 46 | 46 | 67 | 67 | 105 | 111 | 105 | 114 | 105 | 118 | |
| | Air Volume | | Cooling | m³/min | 45 | 45 | 55 | 55 | 110 | 110 | 120 | 120 | 120 | 120 | |
| Outdoor Unit | | | 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 | |
| | | | Heating | dB(A) | 65 | 65 | 67 | 67 | 69 | 69 | 70 | 70 | 70 | 70 | |
| | Operating Current(Max) | | | A | 13 | 13 | 19 | 19 | 20 | 8 | 26.5 | 9 | 30 | 11.8 | |
| | Breaker Size | | | A | 16 | 16 | 25 | 25 | 32 | 16 | 32 | 16 | 40 | 16 | |
| | Ext.Piping Diameter ^(*) | | Liquid/Gas | mm | 6.35 / 12.7 | | 6.35 / 12.7 | | 9.52 / 15.88 | | 9.52 / 15.88 | | 9.52 / 15.88 | | |
| | 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 | |
| Guaranteed Operating Range (Outdoor) | | | | Cooling ^(*) | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | |
| | | | | Heating ^(*) | °C | -11 ~ +21 | -11 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 |

*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 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 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.

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PCA-M KA SERIES

STANDARD INVERTER



| Type | | | | Inverter Heat Pump | | | | | | | | | | | | |
|----------------------------|---|------------------------|---------------------------------|--|-------------|-------------|--------------|--------------|--------------|--------------|-------------------|--------------|--------------|-------------------|--|--|
| Indoor Unit | | | | PCA-M35KA2 | PCA-M50KA2 | PCA-M60KA2 | PCA-M71KA2 | PCA-M100KA2 | PCA-M100KA2 | PCA-M125KA2 | PCA-M125KA2 | PCA-M140KA2 | PCA-M140KA2 | | | |
| Outdoor Unit | | | | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA | SUZ-M71VA | PUZ-M100VKA2 | PUZ-M100VKA2 | PUZ-M125VKA2 | PUZ-M125VKA2 | PUZ-M140VKA2 | PUZ-M140VKA2 | | | |
| Refrigerant ^(*) | | | | R32 | | | | | | | | | | | | |
| Power Source | | | | Outdoor power supply | | | | | | | | | | | | |
| Supply | | | | VA-VKA:230/Single/50, YKA:400/Three/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 | 0.900 | 1.515 | 1.648 | 1.972 | 2.941 | 2.941 | 4.019 | 4.019 | 5.360 | 5.360 | | |
| | EER | | | | 4.00 | 3.30 | 3.70 | 3.60 | 3.23 | 3.23 | 3.01 | 3.01 | 2.50 | 2.50 | | |
| | Design load | | | kW | 3.6 | 5.0 | 6.1 | 7.1 | 9.5 | 9.5 | — | — | — | — | | |
| | Annual electricity consumption ^(*) | | | kWh/a | 198 | 291 | 333 | 381 | 553 | 553 | — | — | — | — | | |
| | SEER ^(*) | | | | 6.3 | 6.0 | 6.4 | 6.5 | 6.0 | 6.0 | — | — | — | — | | |
| | Energy efficiency class | | | | 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 | | |
| | 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 | | |
| Heating | Total Input | | Rated | kW | 1.025 | 1.617 | 1.750 | 2.216 | 3.284 | 3.284 | 3.958 | 3.958 | 4.285 | 4.285 | | |
| | COP | | | | 4.00 | 3.71 | 4.00 | 3.61 | 3.41 | 3.41 | 3.41 | 3.41 | 3.50 | 3.50 | | |
| | Design load | | | kW | 2.6 | 4.3 | 4.6 | 5.8 | 8.0 | 8.0 | — | — | — | — | | |
| | 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) | — | — | — | — | | |
| | | | 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) | — | — | — | — | | |
| | | | 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) | — | — | — | — | | |
| | Back up heating capacity | | | kW | 0.3 | 0.5 | 0.5 | 0.6 | 2.0 | 2.0 | — | — | — | — | | |
| | Annual electricity consumption ^(*) | | | kWh/a | 910 | 1458 | 1558 | 1974 | 2729 | 2729 | — | — | — | — | | |
| | SCOP ^(*) | | | | 4.0 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | — | — | — | — | | |
| | Energy efficiency class | | | | A+ | A+ | A+ | A+ | A+ | A+ | — | — | — | — | | |
| Operating Current(Max) | | | | A | 8.8 | 13.9 | 15.2 | 15.2 | 20.7 | 12.2 | 27.3 | 12.3 | 30.9 | 12.4 | | |
| Indoor Unit | Input [cooling / Heating] | | Rated | kW | 0.04 / 0.04 | 0.05 / 0.05 | 0.06 / 0.06 | 0.06 / 0.06 | 0.09 / 0.09 | 0.09 / 0.09 | 0.11 / 0.11 | 0.11 / 0.11 | 0.14 / 0.14 | 0.14 / 0.14 | | |
| | Operating Current(Max) | | A | 0.29 | 0.37 | 0.39 | 0.42 | 0.65 | 0.65 | 0.76 | 0.76 | 0.90 | 0.90 | | | |
| | Dimensions | | H*W*D | mm | 230-960-680 | | | 230-1280-680 | | | 230-1600-680 | | | | | |
| | Weight | | | kg | 25 | 26 | 32 | 32 | 37 | 37 | 38 | 38 | 40 | 40 | | |
| | Air Volume (Lo-Mi2-Mi1-Hi) | | | m³/min | 10-11-12-14 | 10-11-13-15 | 15-16-17-19 | 16-17-18-20 | 22-24-26-28 | 22-24-26-28 | 23-25-27-29 | 23-25-27-29 | 24-26-29-32 | 24-26-29-32 | | |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | | dB(A) | 31-33-36-39 | 32-34-37-40 | 33-35-37-40 | 35-37-39-41 | 37-39-41-43 | 37-39-41-43 | 39-41-43-45 | 39-41-43-45 | 41-43-45-48 | 41-43-45-48 | | |
| | 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 | | | 981-1050-330(+40) | | | 981-1050-330(+40) | | |
| | Weight | | | 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 | 79 | 86 | 86 | 86 | 86 | | |
| Outdoor Unit | | | Heating | m³/min | 32.7 | 43.7 | 50.1 | 50.1 | 79 | 79 | 92 | 92 | 92 | 92 | | |
| | 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) | | Cooling | dB(A) | 59 | 64 | 65 | 66 | 70 | 70 | 72 | 72 | 73 | 73 | | |
| | Operating Current(Max) | | A | 8.5 | 13.5 | 14.8 | 14.8 | 20 | 11.5 | 26.5 | 11.5 | 30 | 11.5 | | | |
| | Breaker Size | | A | 10 | 20 | 20 | 20 | 32 | 16 | 32 | 16 | 40 | 16 | | | |
| | Ext.Piping 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 | | |
| | 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 | | |
| | Guaranteed Operating Range (Outdoor) | | Cooling ^(*) | °C | -10 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | | |
| | | Heating ^(*) | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | | | |

SERIES SELECTION

Power Inverter Series



Indoor Unit

R32
R410A



PCA-M35/50/60/71/100/125/140KA2

Outdoor Unit

R410A

For Single



PUHZ-ZRP35/50 PUHZ-ZRP60/71 PUHZ-ZRP100/125/140

R410A

For Multi
(Twin/Triple/Quadruple)



PUHZ-ZRP100/125/140/200/250

Remote Controller



Optional



Optional



Optional



Optional



Optional

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

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------|-----------------------|------|------|------|-------|-------|-------|-----|-----|-------------|------|------|-------------|-------|-------------|------------|------|--------------|---------------|------|
| | | 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 | 140x1 | — | — | 35x2 | 50x2 | 60x2 | 71x2 | 100x2 | 125x2 | 50x3 | 60x3 | 71x3 | 50x4 | 60x4 |
| | Distribution Pipe | — | — | — | — | — | — | — | — | — | MSDD-50TR-E | | | MSDD-50WR-E | | MSDT-111R-E | | | MSDF-1111R-E | | |

SERIES SELECTION

Standard Inverter Series



Indoor Unit

R32
R410A



PCA-M35/50/60/71/100/125/140KA2

Outdoor Unit

R410A

For Single



SUZ-KA35 SUZ-KA50/60/71 PUHZ-P100/125/140

R410A

For Multi
(Twin/Triple/Quadruple)



PUHZ-P100/125/140 PUHZ-P200/250

Remote Controller



Optional



Optional



Optional



Optional



Optional

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

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------------|-----------------------|------|------|------|-------|-------|-------|-----|-----|----------|-------------|------|------|-------------|-------|-------------|------|------|---------------|------|
| | | 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 |
| Standard Inverter (PUHZ-P&SUZ) | | 35x1 | 50x1 | 60x1 | 71x1 | 100x1 | 125x1 | 140x1 | — | — | — | 50x2 | 60x2 | 71x2 | 100x2 | 125x2 | 50x3 | 60x3 | 71x3 | 50x4 | 60x4 |
| | Distribution Pipe | — | — | — | — | — | — | — | — | — | — | MSDD-50TR-E | | | MSDD-50WR-E | | MSDT-111R-E | | | MSDF-1111R-E | |

PCA-M KA SERIES

POWER INVERTER



| Type | | | | Inverter Heat Pump | | | | | | | | | | | | |
|---|---|---------------------------------|-----------|--------------------|---|------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------|--|--|
| Indoor Unit | | | | PCA-M35KA2 | PCA-M50KA2 | PCA-M60KA2 | PCA-M71KA2 | PCA-M100KA2 | PCA-M100KA2 | PCA-M125KA2 | PCA-M125KA2 | PCA-M140KA2 | PCA-M140KA2 | | | |
| Outdoor Unit | | | | PUHZ-ZRP35VKA2 | PUHZ-ZRP50VKA2 | PUHZ-ZRP60VHA2 | PUHZ-ZRP71VHA2 | PUHZ-ZRP100VKA3 | PUHZ-ZRP100VKA3 | PUHZ-ZRP125VKA3 | PUHZ-ZRP125VKA3 | PUHZ-ZRP140VKA3 | PUHZ-ZRP140VKA3 | | | |
| Refrigerant ⁽¹⁾ | | | | R410A | | | | | | | | | | | | |
| Power Supply | Source | | | | Outdoor power supply | | | | | | | | | | | |
| Cooling | 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 | 13.4 | | | |
| | | 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 | 0.857 | 1.351 | 1.694 | 1.821 | 2.417 | 2.435 | 3.980 | 3.980 | 3.952 | 3.952 | | | |
| | EER | | | 4.19 | 3.73 | 3.67 | 3.90 | 3.93 | 3.90 | 3.14 | 3.14 | 3.39 | 3.39 | | | |
| | Design load | | kW | 3.6 | 5.0 | 6.1 | 7.1 | 9.5 | 9.5 | — | — | — | — | | | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 202 | 282 | 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+ | — | — | — | — | | | |
| | Heating | Capacity | Rated | kW | 4.1 | 5.5 | 7.0 | 8.0 | 11.2 | 11.2 | 14.0 | 14.0 | 16.0 | 16.0 | | |
| | | 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 | | | |
| Total Input | | Rated | kW | 1.019 | 1.450 | 1.930 | 2.197 | 3.043 | 3.043 | 3.804 | 3.804 | 4.571 | 4.571 | | | |
| COP | | | | 4.02 | 3.79 | 3.63 | 3.64 | 3.68 | 3.68 | 3.68 | 3.68 | 3.50 | 3.50 | | | |
| Design load | | | kW | 2.4 | 3.8 | 4.4 | 4.7 | 7.8 | 7.8 | — | — | — | — | | | |
| Declared Capacity | | at reference design 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 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 capacity | | | kW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | — | — | — | — | | | |
| Annual electricity consumption ⁽²⁾ | | | kWh/a | 817 | 1259 | 1461 | 1522 | 2784 | 2785 | — | — | — | — | | | |
| SCOP ⁽⁴⁾ | | | 4.1 | 4.2 | 4.2 | 4.3 | 3.9 | 3.9 | — | — | — | — | | | | |
| | Energy efficiency class | | A+ | A+ | A+ | A+ | A | A | — | — | — | — | | | | |
| Operating Current(Max) | | A | 13.3 | 13.4 | 19.4 | 19.4 | 27.2 | 8.7 | 27.3 | 10.3 | 28.9 | 13.9 | | | | |
| Indoor Unit | Input [cooling / Heating] | Rated | kW | 0.04 / 0.04 | 0.05 / 0.05 | 0.06 / 0.06 | 0.06 / 0.06 | 0.09 / 0.09 | 0.09 / 0.09 | 0.11 / 0.11 | 0.11 / 0.11 | 0.14 / 0.14 | 0.14 / 0.14 | | | |
| | Operating Current(Max) | | A | 0.29 | 0.37 | 0.39 | 0.42 | 0.65 | 0.65 | 0.76 | 0.76 | 0.90 | 0.90 | | | |
| | Dimensions | H*W*D | mm | 230-960-680 | | | 230-1280-680 | | | 230-1600-680 | | | | | | |
| | Weight | | kg | 25 | 26 | 32 | 32 | 37 | 37 | 38 | 38 | 40 | 40 | | | |
| | Air Volume (Lo-Mi2-Mi1-Hi) | | m³/min | 10-11-12-14 | 10-11-13-15 | 15-16-17-19 | 16-17-18-20 | 22-24-26-28 | 22-24-26-28 | 23-25-27-29 | 23-25-27-29 | 24-26-29-32 | 24-26-29-32 | | | |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | dB(A) | 31-33-36-39 | 32-34-37-40 | 33-35-37-40 | 35-37-39-41 | 37-39-41-43 | 37-39-41-43 | 39-41-43-45 | 39-41-43-45 | 41-43-45-48 | 41-43-45-48 | | | |
| | Sound Level (PWL) | | dB(A) | 60 | 60 | 60 | 62 | 63 | 63 | 65 | 65 | 68 | 68 | | | |
| Outdoor Unit | Dimensions | H*W*D | mm | 630-809-300 | 630-809-300 | 943-950-330(+30) | 943-950-330(+25) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | | | |
| | 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 | | | |
| | | Heating | dB(A) | 67 | 67 | 69 | 69 | 71 | 71 | 72 | 72 | 72 | 72 | | | |
| | Operating Current(Max) | | A | 13 | 13 | 19 | 19 | 26.5 | 8 | 26.5 | 9.5 | 28 | 13 | | | |
| | Breaker Size | | A | 16 | 16 | 25 | 25 | 32 | 16 | 32 | 16 | 40 | 16 | | | |
| Ext.Piping | Diameter ⁽⁵⁾ | 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 | | | |
| | 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 | | | |
| | Max.Length | Out-In | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | | | |
| Guaranteed Operating Range (Outdoor) | Cooling ⁽³⁾ | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | | | |
| | Heating | °C | -11 ~ +21 | -11 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | | | |

*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 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 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.

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PCA-M KA SERIES

STANDARD INVERTER



| Type | | | Inverter Heat Pump | | | | | | | | | | | |
|---|---|------------|--|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| Indoor Unit | | | PCA-M35KA2 | PCA-M50KA2 | PCA-M60KA2 | PCA-M71KA2 | PCA-M100KA2 | PCA-M100KA2 | PCA-M125KA2 | PCA-M125KA2 | PCA-M140KA2 | PCA-M140KA2 | | |
| Outdoor Unit | | | SUZ-KA35VA6 | SUZ-KA50VA6 | SUZ-KA60VA6 | SUZ-KA71VA6 | PUHZ-P100VKA | PUHZ-P100YKA | PUHZ-P125VKA | PUHZ-P125YKA | PUHZ-P140VKA | PUHZ-P140YKA | | |
| Refrigerant ⁽¹⁾ | | | R410A | | | | | | | | | | | |
| Power Supply | | | Outdoor power supply | | | | | | | | | | | |
| Cooling | | | VA-VKA-230/Single/50, YKA-400/Three/50 | | | | | | | | | | | |
| Capacity | Capacity | Rated | kW | 3.6 | 5.0 | 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 | |
| | | Rated | kW | 1.050 | 1.547 | 1.722 | 2.057 | 3.051 | 3.051 | 4.245 | 4.245 | 5.643 | 5.643 | |
| | EER | | 3.43 | 3.23 | 3.31 | 3.45 | 3.08 | 3.08 | 2.85 | 2.85 | 2.41 | 2.41 | | |
| | Design load | kW | 3.6 | 5.0 | 5.7 | 7.1 | 9.4 | 9.4 | — | — | — | — | | |
| | Annual electricity consumption ⁽²⁾ | kWh/a | 209 | 299 | 325 | 408 | 584 | 584 | — | — | — | — | | |
| | SEER ⁽⁴⁾ | | 6.0 | 5.8 | 6.1 | 6.0 | 5.6 | 5.6 | — | — | — | — | | |
| | Energy efficiency class | | | A+ | A+ | A++ | A+ | A+ | A+ | — | — | — | — | |
| | Capacity | Rated | kW | 4.1 | 5.5 | 6.9 | 7.9 | 11.2 | 11.2 | 13.5 | 13.5 | 15.0 | 15.0 | |
| | | 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 | |
| Total Input | Rated | kW | 1.051 | 1.519 | 1.911 | 2.182 | 3.373 | 3.373 | 4.066 | 4.066 | 4.477 | 4.477 | | |
| COP | | | 3.90 | 3.62 | 3.61 | 3.62 | 3.32 | 3.32 | 3.32 | 3.32 | 3.35 | 3.35 | | |
| Design load | | kW | 2.6 | 4.0 | 4.8 | 5.8 | 8.0 | 8.0 | — | — | — | — | | |
| Declared Capacity | 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) | — | — | — | — | | |
| | 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) | — | — | — | — | | |
| Back up heating capacity | 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) | — | — | — | — | | |
| | | kWh | 0.3 | 0.4 | 0.8 | 0.6 | 2.0 | 2.0 | — | — | — | — | | |
| Annual electricity consumption ⁽²⁾ | | kWh/a | 886 | 1388 | 1680 | 2029 | 2729 | 2729 | — | — | — | — | | |
| SCOP ⁽⁴⁾ | | | 4.1 | 4.0 | 4.0 | 4.0 | 4.1 | 4.1 | — | — | — | — | | |
| Energy efficiency class | | | A+ | A+ | A+ | A+ | A+ | A+ | — | — | — | — | | |
| Operating Current(Max) | | | kW | 8.5 | 12.4 | 14.4 | 16.5 | 20.7 | 12.2 | 27.3 | 12.3 | 30.9 | 12.4 | |
| Indoor Unit | Input (cooling / Heating) | Rated | A | 0.04 / 0.04 | 0.05 / 0.05 | 0.06 / 0.06 | 0.06 / 0.06 | 0.09 / 0.09 | 0.09 / 0.09 | 0.11 / 0.11 | 0.11 / 0.11 | 0.14 / 0.14 | 0.14 / 0.14 | |
| | Operating Current(Max) | | A | 0.29 | 0.37 | 0.39 | 0.42 | 0.65 | 0.65 | 0.76 | 0.76 | 0.90 | 0.90 | |
| Dimensions | | | H*W*D | 230-960-680 | | | | 230-1280-680 | | | | 230-1600-680 | | |
| Weight | | | kg | 25 | 26 | 32 | 32 | 37 | 37 | 38 | 38 | 40 | 40 | |
| Air Volume (Lo-Mi2-Mi1-Hi) | | | m³/min | 10-11-12-14 | 10-11-13-15 | 15-16-17-19 | 16-17-18-20 | 22-24-26-28 | 22-24-26-28 | 23-25-27-29 | 23-25-27-29 | 24-26-29-32 | 24-26-29-32 | |
| Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | | dB(A) | 31-33-36-39 | 32-34-37-40 | 33-35-37-40 | 35-37-39-41 | 37-39-41-43 | 37-39-41-43 | 39-41-43-45 | 39-41-43-45 | 41-43-45-48 | 41-43-45-48 | |
| Sound Level (PWL) | | | dB(A) | 60 | 60 | 60 | 62 | 63 | 63 | 65 | 65 | 68 | 68 | |
| Outdoor Unit | Dimensions | H*W*D | mm | 550-800-285 | 880-840-330 | 880-840-330 | 880-840-330 | 981-1050-330 | 981-1050-330 | 981-1050-330 | 981-1050-330 | 981-1050-330 | 981-1050-330 | |
| | 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 | 86 | 86 | 86 | 86 | |
| | | | Heating | m³/min | 34.8 | 44.6 | 49.2 | 48.2 | 79 | 79 | 92 | 92 | 92 | |
| Sound Level (SPL) | | | Cooling | dB(A) | 49 | 52 | 55 | 55 | 51 | 51 | 54 | 54 | 56 | |
| | | | Heating | dB(A) | 50 | 52 | 55 | 55 | 54 | 54 | 56 | 56 | 57 | |
| Sound Level (PWL) | | | Cooling | dB(A) | 62 | 65 | 65 | 69 | 70 | 70 | 72 | 72 | 75 | |
| Operating Current(Max) | | | A | 8.2 | 12 | 14 | 16.1 | 20 | 11.5 | 26.5 | 11.5 | 30 | 11.5 | |
| Breaker Size | | | A | 10 | 20 | 20 | 20 | 32 | 16 | 32 | 16 | 40 | 16 | |
| Ext.Piping | Diameter ⁽³⁾ | 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 | |
| | 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 | |
| Guaranteed Operating Range (Outdoor) | | | Cooling ⁽³⁾ | °C | -10 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | |
| | | | Heating | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | |

R32
R410A

PCA-HA SERIES

PCA-M71HA2



Standard features include a strong carbon-black stainless steel body and built-in oil mist filter to prevent oil from getting into the unit providing a comfortable air conditioning environment in kitchens that use open-flame cooking.

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

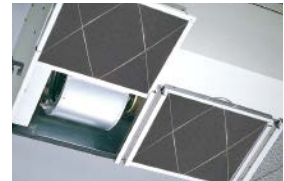
A high-performance heavy-duty oil mist filter is included as standard equipment. The filtering system is more efficient than conventional filters, thereby effectively reducing the oily smoke entering the air conditioner. The filter is disposable, thereby enabling trouble-free cleaning and maintenance.

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.



Oil mist filter



Pull the handle to easily slide the filter out

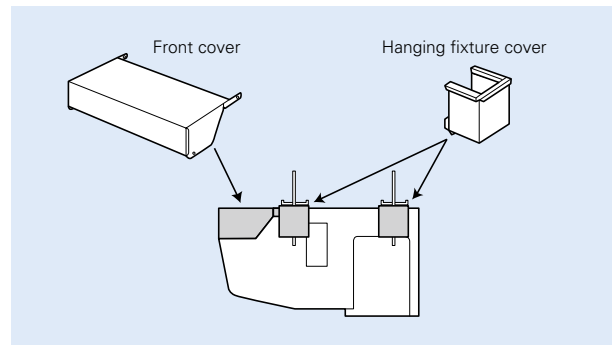
Easy Maintenance – Even for Cleaning the Fan

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.



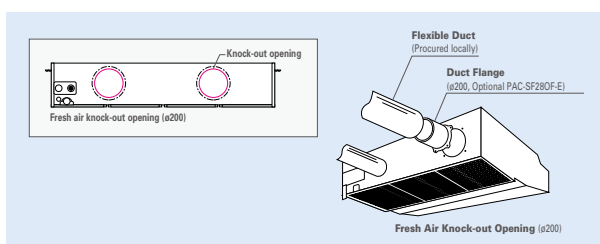
Cosmetic Front and Hanging Fixture Covers (Option)

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



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.

SERIES SELECTION

Power Inverter Series



Indoor Unit

R32

R410A



PCA-M71HA2

Outdoor Unit

R32

For Single



PUZ-ZM71

R32

For Multi
(Twin/Triple)



PUZ-ZM140/250

Remote Controller



Optional



Optional



Optional



Optional

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

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------------|-----------------------|----|----|------|-----|-----|-----|-----|-----|----------|-----|--------------|-----|-----|-----|------------|--------------|-----|---------------|-----|
| | | 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 (PUZ-ZM) | | — | — | — | 71x1 | — | — | — | — | — | — | — | 71x2 | — | — | — | — | 71x3 | — | — | |
| | Distribution Pipe | — | — | — | — | — | — | — | — | — | — | — | MSDD-60TR2-E | — | — | — | — | MSDT-111R3-E | — | — | |

SERIES SELECTION

Power Inverter Series



Indoor Unit

R32

R410A



PCA-M71HA2

Outdoor Unit

R410A

For Single



PUHZ-ZRP71

R410A

For Multi
(Twin/Triple)



PUHZ-ZRP140/250

Remote Controller



Optional



Optional



Optional



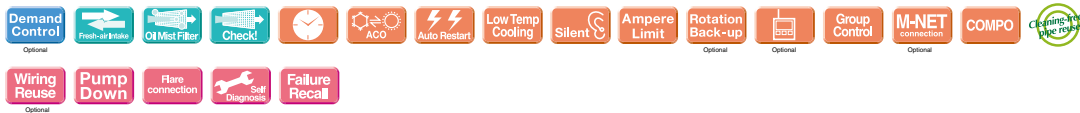
Optional

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

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------|-----------------------|----|----|------|-----|-----|-----|-----|-----|----------|-----|-----|-------------|-----|-----|------------|-----|-------------|---------------|-----|
| | | 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) | | — | — | — | 71x1 | — | — | — | — | — | — | — | — | 71x2 | — | — | — | — | 71x3 | — | — |
| | Distribution Pipe | — | — | — | — | — | — | — | — | — | — | — | — | MSDD-60TR-E | — | — | — | — | MSDT-111R-E | — | — |

PCA-RP HA SERIES

POWER INVERTER



| Type | | | | Inverter Heat Pump | |
|----------------------------|---|---------------------------------|--------|-------------------------|--|
| Indoor Unit | | | | PCA-M71HA2 | |
| Outdoor Unit | | | | PUZ-ZM71VHA2 | |
| Refrigerant ⁽¹⁾ | | | | R32 | |
| Power Supply | | | | Outdoor power supply | |
| Cooling | | | | 230/Single/50 | |
| Cooling | Capacity | Rated | kW | 7.1 | |
| | | Min-Max | kW | 3.3 - 8.1 | |
| | Total Input | Rated | kW | 2.028 | |
| | EER | | | 3.50 | |
| | Design load | | kW | 7.1 | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 443 | |
| | SEER ⁽⁴⁾ | | | 5.6 | |
| | | | | Energy efficiency class | |
| Heating | Capacity | Rated | kW | A+ | |
| | | Min-Max | kW | 7.6 | |
| | Total Input | Rated | kW | 3.5 - 10.2 | |
| | COP | | | 2.171 | |
| | Design load | | kW | 3.50 | |
| | Declared Capacity | at reference design temperature | kW | 4.7 | |
| | | at bivalent temperature | kW | 4.7 (-10°C) | |
| | | at operation limit temperature | kW | 4.7 (-10°C) | |
| | Back up heating capacity | | kW | 3.4 (-20°C) | |
| | | | kW | 0.0 | |
| Heating | Annual electricity consumption ⁽²⁾ | | kWh/a | 1684 | |
| | | | kWh/a | 3.9 | |
| | SCOP ⁽⁴⁾ | | | A | |
| | | | | Energy efficiency class | |
| Operating Current(Max) | | | | A | |
| Indoor Unit | | | | 19.4 | |
| Indoor Unit | Input [cooling / Heating] | Rated | kW | 0.10 / 0.10 | |
| | | | A | 0.43 | |
| | Operating Current(Max) | | A | 280-1136-650 | |
| | Dimensions | H*W*D | mm | 42 | |
| | Weight | | kg | 16-18 | |
| | Air Volume (Lo-Mi2-Mi1-Hi) | | m³/min | 37-39 | |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | dB(A) | 57 | |
| | Sound Level (PWL) | | dB(A) | 943-950-330(+25) | |
| | Dimensions | H*W*D | mm | 67 | |
| | Weight | | kg | 55 | |
| Outdoor Unit | Air Volume | Cooling | m³/min | 55 | |
| | | Heating | m³/min | 55 | |
| | Sound Level (SPL) | Cooling | dB(A) | 47 | |
| | | Heating | dB(A) | 49 | |
| | Sound Level (PWL) | Cooling | dB(A) | 67 | |
| | | | A | 19 | |
| | Operating Current(Max) | | A | 25 | |
| | Breaker Size | | A | 9.52 / 15.88 | |
| | Diameter ⁽³⁾ | Liquid/Gas | mm | 55 | |
| | Max.Length | Out-In | m | 30 | |
| Ext.Piping | Max.Height | Out-In | m | -15 ~ +46 | |
| | Guaranteed Operating Range (Outdoor) | Cooling ⁽²⁾ | °C | -20 ~ +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, 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.

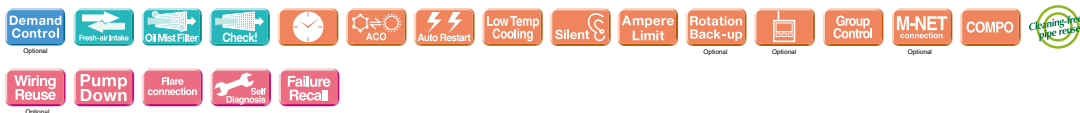
*3 Optional air protection guide is required where ambient temperature is lower than -5°C.

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

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PCA-RP HA SERIES

POWER INVERTER



| Type | | | | Inverter Heat Pump | |
|----------------------------|---|---------------------------------|--------|-------------------------|--|
| Indoor Unit | | | | PCA-M71HA2 | |
| Outdoor Unit | | | | PUHZ-ZRP71VHA2 | |
| Refrigerant ⁽¹⁾ | | | | R410A | |
| Power Supply | | | | Outdoor power supply | |
| Cooling | | | | 230/Single/50 | |
| Cooling | Capacity | Rated | kW | 7.1 | |
| | | Min-Max | kW | 3.3 - 8.1 | |
| | Total Input | Rated | kW | 2.170 | |
| | EER | | | 3.27 | |
| | Design load | | kW | 7.1 | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 444 | |
| | SEER ⁽⁴⁾ | | | 5.6 | |
| | | | | Energy efficiency class | |
| Heating | Capacity | Rated | kW | A+ | |
| | | Min-Max | kW | 7.6 | |
| | Total Input | Rated | kW | 3.5 - 10.2 | |
| | COP | | | 2.350 | |
| | Design load | | kW | 3.23 | |
| | Declared Capacity | at reference design temperature | kW | 4.7 | |
| | | at bivalent temperature | kW | 4.7 (-10°C) | |
| | | at operation limit temperature | kW | 4.7 (-10°C) | |
| | Back up heating capacity | | kW | 3.5 (-20°C) | |
| | | | kW | 0.0 | |
| Heating | Annual electricity consumption ⁽²⁾ | | kWh/a | 1724 | |
| | | | kWh/a | 3.8 | |
| | SCOP ⁽⁴⁾ | | | A | |
| | | | | Energy efficiency class | |
| Operating Current(Max) | | | | A | |
| Indoor Unit | | | | 19.4 | |
| Indoor Unit | Input [cooling / Heating] | Rated | kW | 0.10 / 0.10 | |
| | | | A | 0.43 | |
| | Operating Current(Max) | | A | 280-1136-650 | |
| | Dimensions | H*W*D | mm | 42 | |
| | Weight | | kg | 16-18 | |
| | Air Volume (Lo-Mi2-Mi1-Hi) | | m³/min | 37-39 | |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | dB(A) | 57 | |
| | Sound Level (PWL) | | dB(A) | 943-950-330(+30) | |
| | Dimensions | H*W*D | mm | 70 | |
| | Weight | | kg | 55 | |
| Outdoor Unit | Air Volume | Cooling | m³/min | 55 | |
| | | Heating | m³/min | 55 | |
| | Sound Level (SPL) | Cooling | dB(A) | 47 | |
| | | Heating | dB(A) | 48 | |
| | Sound Level (PWL) | Cooling | dB(A) | 67 | |
| | | | A | 19 | |
| | Operating Current(Max) | | A | 25 | |
| | Breaker Size | | A | 9.52 / 15.88 | |
| | Diameter ⁽³⁾ | Liquid/Gas | mm | 50 | |
| | Max.Length | Out-In | m | 30 | |
| Ext.Piping | Max.Height | Out-In | m | -15 ~ +46 | |
| | Guaranteed Operating Range (Outdoor) | Cooling ⁽²⁾ | °C | -20 ~ +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, 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.

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PSA SERIES

PSA-M71/100/125/140KA

R32
R410A



Installation of this floor-standing series is easy and quick.
An excellent choice when there is a sudden need for an air conditioner to be installed.

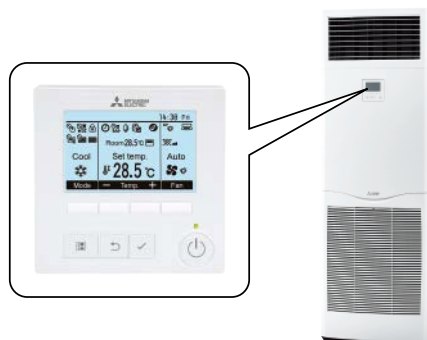
A slim design the fits neatly into any space

With a width of only 600mm, this slim unit can fit neatly into narrow spaces.



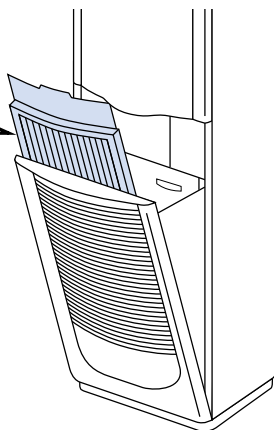
Built-in MA smart remote controller

The large and easy-to-read LCD makes it easy to perform a variety of functions.



Equipped with a long-life filter as standard

The adoption of a grille that can be opened allows the filter to be easily removed.



A wide airflow range with horizontal swinging

The horizontal swinging function can be turned on or off via the remote controller to deliver comfort over a wider area.

Automatic swinging in the horizontal direction

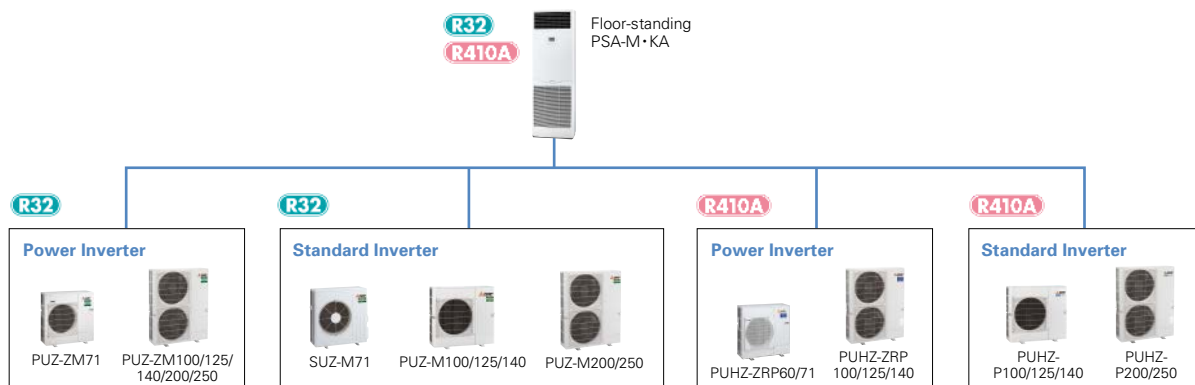
The horizontal-swinging louvers provide wide coverage for improved comfort.

Airflow can also be adjusted manually in the vertical direction.



Floor-standing Line-up

The PSA series was previously only able to be connected to P series outdoor units. However, it can now also be connected to S series outdoor units. This wider lineup provides our customers with a more flexible range of options.



SERIES SELECTION

Power Inverter Series



Indoor Unit

R32
R410A



PSA-M71/100/125/140KA

Outdoor Unit

R32

For Single



PUZ-ZM71



PUZ-ZM100/125/140

R32

For Multi
(Twin/Triple)



PUZ-ZM140/200/250

Remote Controller



Built-in



Optional*

* PAC-SC9CA-E is also required.

PSA-M Indoor Unit Combinations Indoor unit combinations shown below are possible.

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------------|-----------------------|----|----|------|-------|-------|-------|-----|-----|----------|-----|--------------|--------------|-------|-----|------------|--------------|-----|---------------|-----|
| | | 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 (PUZ-ZM) | | — | — | — | 71x1 | 100x1 | 125x1 | 140x1 | — | — | — | — | 71x2 | 100x2 | 125x2 | — | — | 71x3 | — | — | |
| | Distribution Pipe | — | — | — | — | — | — | — | — | — | — | — | MSDD-50TR2-E | MSDD-50WR2-E | — | — | — | MSDT-111R3-E | — | — | |

SERIES SELECTION

Standard Inverter Series



Indoor Unit

R32
R410A



PSA-M71/100/125/140KA

Outdoor Unit

R32

For Single



SUZ-M71



PUZ-M100/125/140

R32

For Multi
(Twin/Triple)



PUZ-M140



PUZ-M200/250

Remote Controller



Built-in



Optional*

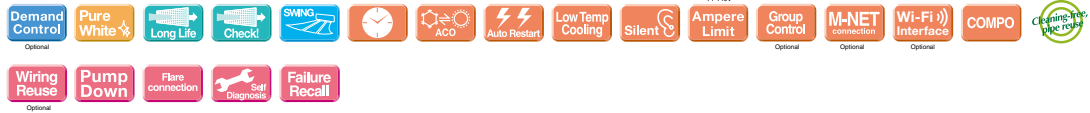
* PAC-SC9CA-E is also required.

PSA-M Indoor Unit Combinations Indoor unit combinations shown below are possible.

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------|-----------------------|----|----|------|-------|-------|-------|-----|-----|----------|-----|-----|--------------|--------------|-------|------------|--------------|------|---------------|-----|
| | | 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 |
| Standard Inverter (PUZ-M) | | — | — | — | 71x1 | 100x1 | 125x1 | 140x1 | — | — | — | — | — | 71x2 | 100x2 | 125x2 | — | — | 71x3 | — | — |
| | Distribution Pipe | — | — | — | — | — | — | — | — | — | — | — | — | MSDD-50TR2-E | MSDD-50WR2-E | — | — | MSDT-111R3-E | — | — | |

PSA-M SERIES

POWER INVERTER



| Type | | | | Inverter Heat Pump | | | | | | | |
|--------------------------------------|---|---------------------------------|--------|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|
| Indoor Unit | | | | PSA-M71KA | PSA-M100KA | PSA-M100KA | PSA-M125KA | PSA-M125KA | PSA-M140KA | PSA-M140KA | |
| Outdoor Unit | | | | PUZ-ZM71VHA2 | PUZ-ZM100VKA2 | PUZ-ZM100VKA2 | PUZ-ZM125VKA2 | PUZ-ZM125VKA2 | PUZ-ZM140VKA2 | PUZ-ZM140VKA2 | |
| Refrigerant ⁽¹⁾ | | | | R32 | | | | | | | |
| Power Source | | | | Outdoor power supply | | | | | | | |
| Supply Outdoor(V/Phase/Hz) | | | | VKA-VHA:230/Single/50, YKA:400/Three/50 | | | | | | | |
| Cooling | Capacity | Rated | kW | 7.1 | 9.5 | 9.5 | 12.5 | 12.5 | 13.4 | 13.4 | |
| | | Min-Max | kV | 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 | kV | 1.888 | 2.493 | 2.493 | 3.955 | 3.955 | 3.976 | 3.976 | |
| | EER | | | 3.76 | 3.81 | 3.81 | 3.16 | 3.16 | 3.37 | 3.37 | |
| | Design load | | kW | 7.1 | 9.5 | 9.5 | — | — | — | — | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 388 | 581 | 592 | — | — | — | — | |
| Heating | SEER ⁽⁴⁾ | | | 6.4 | 5.7 | 5.6 | — | — | — | — | |
| | Energy efficiency class | | | A++ | A+ | A+ | — | — | — | — | |
| | Capacity | Rated | kW | 7.6 | 11.2 | 11.2 | 14.0 | 14.0 | 16.0 | 16.0 | |
| | | Min-Max | kV | 3.5 - 10.2 | 4.5 - 14.0 | 4.5 - 14.0 | 5 - 16.0 | 5 - 16.0 | 5.7 - 18.0 | 5.7 - 18.0 | |
| | Total Input | Rated | kV | 2.338 | 3.172 | 3.172 | 4.501 | 4.501 | 5.000 | 5.000 | |
| | COP | | | 3.25 | 3.53 | 3.53 | 3.11 | 3.11 | 3.20 | 3.20 | |
| | 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 | 3.4 (-20°C) | 5.8 (-20°C) | 5.8 (-20°C) | — | — | — | — | |
| | Back up heating capacity | | kW | 0.0 | 0.0 | 0.0 | — | — | — | — | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 1636 | 2658 | 2659 | — | — | — | — | |
| Operating | SCOP ⁽⁴⁾ | | | 4.0 | 4.1 | 4.1 | — | — | — | — | |
| | Energy efficiency class | | | A+ | A+ | A+ | — | — | — | — | |
| Indoor Unit | Current(Max) | | A | 19.4 | 20.7 | 8.7 | 27.2 | 9.7 | 30.7 | 12.5 | |
| | Input (cooling / Heating) | Rated | kV | 0.06 / 0.06 | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | |
| Outdoor Unit | Operating Current(Max) | | A | 0.4 | 0.71 | 0.71 | 0.73 | 0.73 | 0.73 | 0.73 | |
| | Dimensions | H*W*D | mm | 1900-600-360 | 1900-600-360 | 1900-600-360 | 1900-600-360 | 1900-600-360 | 1900-600-360 | 1900-600-360 | |
| | Weight | | kg | 46 | 46 | 46 | 46 | 46 | 48 | 48 | |
| | Air Volume (Lo-Mi2-Mi1-Hi) | | m³/min | 20-22-24 | 25-28-30 | 25-28-30 | 25-28-31 | 25-28-31 | 25-28-31 | 25-28-31 | |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | dB(A) | 40-42-44 | 45-49-51 | 45-49-51 | 45-49-51 | 45-49-51 | 45-49-51 | 45-49-51 | |
| | Sound Level (PWL) | | dB(A) | 60 | 65 | 65 | 66 | 66 | 66 | 66 | |
| | Dimensions | H*W*D | mm | 943-950-330(+25) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | 1338-1050-330(+40) | |
| | Weight | | kg | 67 | 105 | 111 | 105 | 114 | 105 | 118 | |
| | Air Volume | Cooling | m³/min | 55 | 110 | 110 | 120 | 120 | 120 | 120 | |
| | | Heating | m³/min | 55 | 110 | 110 | 120 | 120 | 120 | 120 | |
| Ext.Piping | Sound Level (SPL) | Cooling | dB(A) | 47 | 49 | 49 | 50 | 50 | 50 | 50 | |
| | | Heating | dB(A) | 49 | 51 | 51 | 52 | 52 | 52 | 52 | |
| | Sound Level (PWL) | Cooling | dB(A) | 67 | 69 | 69 | 70 | 70 | 70 | 70 | |
| | Operating Current(Max) | | A | 19 | 20 | 8 | 26.5 | 9 | 30 | 11.8 | |
| | Breaker Size | | A | 25 | 32 | 16 | 32 | 16 | 40 | 16 | |
| | Diameter ⁽⁵⁾ | 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 | |
| Guaranteed Operating Range (Outdoor) | Max.Length | Out-In | m | 55 | 100 | 100 | 100 | 100 | 100 | 100 | |
| | Max.Height | Out-In | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 | |
| | Heating | Cooling ⁽³⁾ | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | |
| | | | | °C | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | |

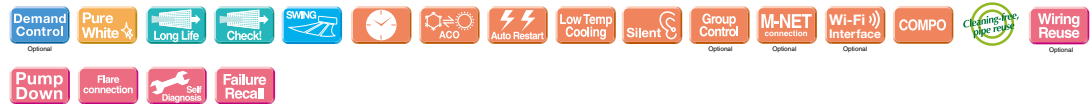
*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 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 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.

PSA-M SERIES

STANDARD INVERTER



| Type | | | | Inverter Heat Pump | | | | | | | |
|--------------------------------------|---|---------------------------------|--------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| Indoor Unit | | | | PSA-M71KA | PSA-M100KA | PSA-M100KA | PSA-M125KA | PSA-M125KA | PSA-M140KA | PSA-M140KA | |
| Outdoor Unit | | | | SUZ-M71VA | PUZ-M100VKA2 | PUZ-M100VKA2 | PUZ-M125VKA2 | PUZ-M125VKA2 | PUZ-M140VKA2 | PUZ-M140VKA2 | |
| Refrigerant ⁽¹⁾ | | | | R32 | | | | | | | |
| Power Source | | | | Outdoor power supply | | | | | | | |
| Supply Outdoor(V/Phase/Hz) | | | | VA, VKA:230/Single/50, YKA:400/Three/50 | | | | | | | |
| Cooling | Capacity | Rated | kW | 7.1 | 9.4 | 9.4 | 12.1 | 12.1 | 13.6 | 13.6 | |
| | | Min-Max | kV | 2.2 - 8.1 | 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 | kV | 1.972 | 2.686 | 2.686 | 4.481 | 4.481 | 5.037 | 5.037 | |
| | EER | | | 3.60 | 3.50 | 3.50 | 2.70 | 2.70 | 2.70 | 2.70 | |
| | Design load | | kW | 7.1 | 9.4 | 9.4 | — | — | — | — | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 394 | 591 | 591 | — | — | — | — | |
| Heating | SEER ⁽⁴⁾ | | | 6.3 | 5.5 | 5.5 | — | — | — | — | |
| | Energy efficiency class | | | A++ | A | A | — | — | — | — | |
| | Capacity | Rated | kW | 8.0 | 11.2 | 11.2 | 13.5 | 13.5 | 15.0 | 15.0 | |
| | | Min-Max | kV | 2.1 - 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 | |
| | Total Input | Rated | kV | 2.492 | 3.246 | 3.246 | 4.355 | 4.355 | 4.761 | 4.761 | |
| | COP | | | 3.21 | 3.45 | 3.45 | 3.10 | 3.10 | 3.15 | 3.15 | |
| | Design load | | kW | 5.8 | 8.0 | 8.0 | — | — | — | — | |
| | Declared Capacity | at reference design temperature | kW | 5.2 (-10°C) | 6.0 (-10°C) | 6.0 (-10°C) | — | — | — | — | |
| | | at bivalent temperature | kW | 5.2 (-7°C) | 7.0 (-7°C) | 7.0 (-7°C) | — | — | — | — | |
| | | at operation limit temperature | kW | 5.2 (-10°C) | 4.5 (-15°C) | 4.5 (-15°C) | — | — | — | — | |
| | Back up heating capacity | | kW | 0.6 | 2.0 | 2.0 | — | — | — | — | |
| | Annual electricity consumption ⁽²⁾ | | kWh/a | 2003 | 2745 | 2745 | — | — | — | — | |
| Operating | SCOP ⁽⁴⁾ | | | 4.0 | 4.0 | 4.0 | — | — | — | — | |
| | Energy efficiency class | | | A+ | A+ | A+ | — | — | — | — | |
| Indoor Unit | Current(Max) | | A | 15.2 | 20.7 | 12.2 | 27.2 | 12.2 | 30.7 | 12.2 | |
| | Input (cooling / Heating) | Rated | kV | 0.06 / 0.06 | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | |
| Outdoor Unit | Operating Current(Max) | | A | 0.4 | 0.71 | 0.71 | 0.73 | 0.73 | 0.73 | 0.73 | |
| | Dimensions | H*W*D | mm | 1900-600-360 | 1900-600-360 | 1900-600-360 | 1900-600-360 | 1900-600-360 | 1900-600-360 | 1900-600-360 | |
| | Weight | | kg | 46 | 46 | 46 | 46 | 46 | 48 | 48 | |
| | Air Volume (Lo-Mi2-Mi1-Hi) | | m³/min | 20-22-24 | 25-28-30 | 25-28-30 | 25-28-31 | 25-28-31 | 25-28-31 | 25-28-31 | |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | dB(A) | 40-42-44 | 45-49-51 | 45-49-51 | 45-49-51 | 45-49-51 | 45-49-51 | 45-49-51 | |
| | Sound Level (PWL) | | dB(A) | 60 | 65 | 65 | 66 | 66 | 66 | 66 | |
| | Dimensions | H*W*D | mm | 880-840-330 | 981-1050-330(+40) | 981-1050-330(+40) | 981-1050-330(+40) | 981-1050-330(+40) | 981-1050-330(+40) | 981-1050-330(+40) | |
| | Weight | | kg | 55 | 76 | 78 | 84 | 85 | 84 | 85 | |
| | Air Volume | Cooling | m³/min | 50.1 | 79 | 79 | 86 | 86 | 86 | 86 | |
| | | Heating | m³/min | 50.1 | 79 | 79 | 92 | 92 | 92 | 92 | |
| Ext.Piping | Sound Level (SPL) | Cooling | dB(A) | 49 | 51 | 51 | 54 | 54 | 55 | 55 | |
| | | Heating | dB(A) | 51 | 54 | 54 | 56 | 56 | 57 | 57 | |
| | Sound Level (PWL) | Cooling | dB(A) | 66 | 70 | 70 | 72 | 72 | 73 | 73 | |
| | Operating Current(Max) | | A | 14.8 | 20 | 11.5 | 26.5 | 11.5 | 30 | 11.5 | |
| | Breaker Size | | A | 20 | 32 | 16 | 32 | 16 | 40 | 16 | |
| | Diameter ⁽⁵⁾ | 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 | |
| Guaranteed Operating Range (Outdoor) | Max.Length | Out-In | m | 30 | 55 | 55 | 65 | 65 | 65 | 65 | |
| | Max.Height | Out-In | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 | |
| | Heating | Cooling ⁽³⁾ | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | |
| | | | | °C | -10 ~ +24 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | |

*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 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.

*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

SERIES SELECTION

Power Inverter Series



Indoor Unit

R32
R410A



PSA-M71/100/125/140KA

Outdoor Unit

R410A

For Single



PUHZ-ZRP71



PUHZ-ZRP100/125/140

R410A

For Multi
(Twin/Triple)



PUHZ-ZRP140/200/250

Remote Controller



Built-in



Optional*

* PAC-SC9CA-E is also required.

PSA-M Indoor Unit Combinations Indoor unit combinations shown below are possible.

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------|-----------------------|----|----|------|-------|-------|-------|-----|-----|----------|-----|-----|-------------|-------------|-------|------------|-------------|------|---------------|-----|
| | | 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) | | — | — | — | 71x1 | 100x1 | 125x1 | 140x1 | — | — | — | — | — | 71x2 | 100x2 | 125x2 | — | — | 71x3 | — | — |
| | Distribution Pipe | — | — | — | — | — | — | — | — | — | — | — | — | MSDD-50TR-E | MSDD-50WR-E | — | — | MSDT-111R-F | — | — | |

SERIES SELECTION

Standard Inverter Series



Indoor Unit

R32
R410A



PSA-M71/100/125/140KA

Outdoor Unit

R410A

For Single



PUHZ-P100/125/140

R410A

For Multi
(Twin/Triple)



PUHZ-P140



PUHZ-P200/250

Remote Controller



Built-in



Optional*

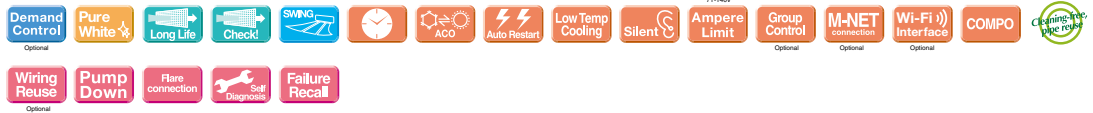
* PAC-SC9CA-E is also required.

PSA-M Indoor Unit Combinations Indoor unit combinations shown below are possible.

| Indoor Unit Combination | | Outdoor Unit Capacity | | | | | | | | | | | | | | | | | | | |
|----------------------------|-------------------|-----------------------|----|----|----|-------|-------|-------|-----|-----|----------|-----|-------------|-------------|-------|-----|-------------|------|-----|---------------|-----|
| | | 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 |
| Standard Inverter (PUHZ-P) | | — | — | — | — | 100x1 | 125x1 | 140x1 | — | — | — | — | 71x2 | 100x2 | 125x2 | — | — | 71x3 | — | — | |
| | Distribution Pipe | — | — | — | — | — | — | — | — | — | — | — | MSDD-50TR-E | MSDD-50WR-E | — | — | MSDT-111R-F | — | — | | |

PSA-RP SERIES

POWER INVERTER



| Type | | | Inverter Heat Pump | | | | | | | |
|---|-----------------------------------|------------------------|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------|
| Indoor Unit | | | PSA-M71KA | PSA-M100KA | PSA-M100KA | PSA-M125KA | PSA-M125KA | PSA-M140KA | PSA-M140KA | |
| Outdoor Unit | | | PUHZ-ZRP71VHA2 | PUHZ-ZRP100VKA3 | PUHZ-ZRP100YKA3 | PUHZ-ZRP125VKA3 | PUHZ-ZRP125YKA3 | PUHZ-ZRP140VKA3 | PUHZ-ZRP140YKA3 | |
| Refrigerant ⁽¹⁾ | | | R410A | | | | | | | |
| Power Supply | | | Outdoor power supply | | | | | | | |
| Cooling | | | VKA-VHA:230/Single/50, YKA:400/Three/50 | | | | | | | |
| Capacity | Rated | kW | 7.1 | 9.5 | 9.5 | 12.5 | 12.5 | 13.4 | 13.4 | |
| | | Min-Max | 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 | 1.890 | 2.500 | 2.500 | 4.084 | 4.084 | 4.060 | 4.060 | |
| | EER | | 3.76 | 3.80 | 3.80 | 3.06 | 3.06 | 3.30 | 3.30 | |
| | Design load | kW | 7.1 | 9.5 | 9.5 | — | — | — | — | |
| Annual electricity consumption ⁽²⁾ | | | 6.3 | 5.6 | 5.5 | — | — | — | — | |
| SEER ⁽⁴⁾ | | | A++ | A+ | A | — | — | — | — | |
| Energy efficiency class | | | A++ | A+ | A | — | — | — | — | |
| Heating | Capacity | kW | 7.6 | 11.2 | 11.2 | 14.0 | 14.0 | 16.0 | 16.0 | |
| | | Min-Max | 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 | |
| | Total Input | Rated | 2.210 | 3.080 | 3.080 | 4.242 | 4.242 | 4.790 | 4.790 | |
| | COP | | 3.44 | 3.64 | 3.64 | 3.30 | 3.30 | 3.34 | 3.34 | |
| | Design load | kW | 4.7 | 7.8 | 7.8 | — | — | — | — | |
| Declared Capacity | | | at reference design temperature | at reference design temperature | at reference design temperature | at reference design temperature | at reference design temperature | at reference design temperature | at reference design temperature | |
| | | | at bivalent temperature | at bivalent temperature | at bivalent temperature | at bivalent temperature | at bivalent temperature | at bivalent temperature | at bivalent temperature | |
| | | | at operation limit temperature | at operation limit temperature | at operation limit temperature | at operation limit temperature | at operation limit temperature | at operation limit temperature | at operation limit temperature | |
| Back up heating capacity | | | kW | 0.0 | 0.0 | — | — | — | — | |
| Annual electricity consumption ⁽²⁾ | | | kWh/a | 1668 | 2730 | 2731 | — | — | — | |
| SCOP ⁽⁴⁾ | | | 3.9 | 3.9 | 3.9 | — | — | — | — | |
| Energy efficiency class | | | A | A | A | — | — | — | — | |
| Operating Current(Max) | | | A | 19.4 | 27.2 | 8.7 | 27.2 | 10.2 | 28.7 | 13.7 |
| Indoor Unit | Input [cooling / Heating] | Rated | kW | 0.06 / 0.06 | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | |
| | | | A | 0.4 | 0.71 | 0.71 | 0.73 | 0.73 | 0.73 | |
| | Operating Current(Max) | | A | 0.4 | 0.71 | 0.71 | 0.73 | 0.73 | 0.73 | |
| | Dimensions | H*W*D | mm | 1900-600-360 | 1900-600-360 | 1900-600-360 | 1900-600-360 | 1900-600-360 | 1900-600-360 | |
| | Weight | | kg | 46 | 46 | 46 | 46 | 48 | 48 | |
| Outdoor Unit | Air Volume (Lo-Mi2-Mi1-Hi) | m³/min | 20-22-24 | 25-28-30 | 25-28-30 | 25-28-31 | 25-28-31 | 25-28-31 | 25-28-31 | |
| | | | 40-42-44 | 45-49-51 | 45-49-51 | 45-49-51 | 45-49-51 | 45-49-51 | 45-49-51 | |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | | | | | | | | |
| | Sound Level (PWL) | dB(A) | 60 | 65 | 65 | 66 | 66 | 66 | 66 | |
| | | | | | | | | | | |
| Ext.Piping | Diameter ⁽³⁾ | 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 | |
| | | | | | | | | | | |
| | Max.Length | Out-In | m | 50 | 75 | 75 | 75 | 75 | 75 | |
| | | Out-In | m | 30 | 30 | 30 | 30 | 30 | 30 | |
| | Max.Height | Cooling ⁽³⁾ | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | |
| | | Heating | °C | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | |

*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 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.

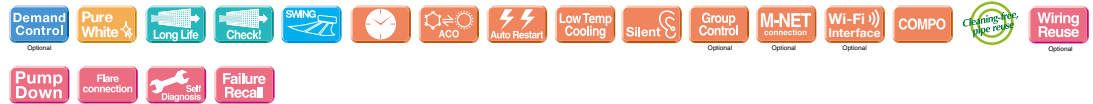
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

*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. *5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PSA-RP SERIES

STANDARD INVERTER



| Type | | | Inverter Heat Pump | | | | | | | |
|---|-----------------------------------|------------------------|-------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------|--|
| Indoor Unit | | | PSA-M100KA | PSA-M100KA | PSA-M125KA | PSA-M125KA | PSA-M140KA | PSA-M140KA | | |
| Outdoor Unit | | | PUHZ-P100VKA | PUHZ-P100YKA | PUHZ-P125VKA | PUHZ-P125YKA | PUHZ-P140VKA | PUHZ-P140YKA | | |
| Refrigerant ⁽¹⁾ | | | R410A | | | | | | | |
| Power Supply | | | Outdoor power supply | | | | | | | |
| Cooling | | | VKA:230/Single/50, YKA:400/Three/50 | | | | | | | |
| Capacity | Rated | kW | 9.4 | 9.4 | 12.1 | 12.1 | 13.6 | 13.6 | | |
| | | Min-Max | 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 | 3.122 | 3.122 | 5.020 | 5.020 | 6.384 | 6.384 | | |
| | EER | | 3.01 | 3.01 | 2.41 | 2.41 | 2.13 | 2.13 | | |
| | Design load | kW | 9.4 | 9.4 | — | — | — | — | | |
| Annual electricity consumption ⁽²⁾ | | | 644 | 644 | — | — | — | — | | |
| SEER ⁽⁴⁾ | | | 5.1 | 5.1 | — | — | — | — | | |
| Energy efficiency class | | | A | A | — | — | — | — | | |
| Heating | Capacity | kW | 11.2 | 11.2 | 13.5 | 13.5 | 15.0 | 15.0 | | |
| | | Min-Max | 2.8 - 12.5 | 2.8 - 12.5 | 4.8 - 15.0 | 4.8 - 15.0 | 4.9 - 15.8 | 4.9 - 15.8 | | |
| | Total Input | Rated | 3.284 | 3.284 | 4.804 | 4.804 | 4.823 | 4.823 | | |
| | COP | | 3.41 | 3.41 | 2.81 | 2.81 | 3.11 | 3.11 | | |
| | Design load | kW | 8.0 | 8.0 | — | — | — | — | | |
| Declared Capacity | | | at reference design temperature | at reference design temperature | at reference design temperature | at reference design temperature | at reference design temperature | at reference design temperature | | |
| | | | at bivalent temperature | at bivalent temperature | at bivalent temperature | at bivalent temperature | at bivalent temperature | at bivalent temperature | | |
| | | | at operation limit temperature | at operation limit temperature | at operation limit temperature | at operation limit temperature | at operation limit temperature | at operation limit temperature | | |
| Back up heating capacity | | | kW | 2.0 | — | — | — | — | | |
| Annual electricity consumption ⁽²⁾ | | | kWh/a | 2797 | 2797 | — | — | — | | |
| SCOP ⁽⁴⁾ | | | 4.0 | 4.0 | — | — | — | — | | |
| Energy efficiency class | | | A+ | A+ | — | — | — | — | | |
| Operating Current(Max) | | | A | 20.7 | 12.2 | 27.2 | 12.2 | 30.7 | 12.2 | |
| Indoor Unit | Input [cooling / Heating] | Rated | kW | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | 0.11 / 0.11 | |
| | | | A | 0.71 | 0.71 | 0.73 | 0.73 | 0.73 | 0.73 | |
| | Operating Current(Max) | | A | 0.71 | 0.71 | 0.73 | 0.73 | 0.73 | 0.73 | |
| | Dimensions | H*W*D | mm | 1900-600-360 | 1900-600-360 | 1900-600-360 | 1900-600-360 | 1900-600-360 | 1900-600-360 | |
| | Weight | | kg | 46 | 46 | 46 | 46 | 48 | 48 | |
| Outdoor Unit | Air Volume (Lo-Mi2-Mi1-Hi) | m³/min | 25-28-30 | 25-28-30 | 25-28-31 | 25-28-31 | 25-28-31 | 25-28-31 | 25-28-31 | |
| | | | 45-49-51 | 45-49-51 | 45-49-51 | 45-49-51 | 45-49-51 | 45-49-51 | 45-49-51 | |
| | Sound Level (Lo-Mi2-Mi1-Hi) (SPL) | | | | | | | | | |
| | Sound Level (PWL) | dB(A) | 65 | 65 | 66 | 66 | 66 | 66 | 66 | |
| | | | | | | | | | | |
| Ext.Piping | Diameter ⁽³⁾ | 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 | |
| | | | | | | | | | | |
| | Max.Length | Out-In | m | 50 | 50 | 50 | 50 | 50 | 50 | |
| | | Out-In | m | 30 | 30 | 30 | 30 | 30 | 30 | |
| | Max.Height | Cooling ⁽³⁾ | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | |
| | | Heating | °C | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | |

*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 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. *5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

MULTI SPLIT

SERIES



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.

| R32 INDOOR UNITS | | R32 OUTDOOR UNITS | | |
|---|---|---|---|---|
| Wall-mounted MSZ-LN (18·25·35·50) MSZ-EF MSZ-AP25-50 MSZ-AP15-20 MSZ-AP60VG MSZ-BT | Floor-standing MFZ-KT Ceiling-suspended PCA Ceiling-concealed SEZ PEAD | 2-port up to 2 indoor units MXZ-2F33VF3 MXZ-2F42VF3 MXZ-2F53VF(H)3 MXZ-2F53VFHZ | 3-port up to 3 indoor units MXZ-3F54VF3 MXZ-3F68VF3 | 4-port up to 4 indoor units MXZ-4F72VF3 MXZ-4F80VF3 MXZ-4F83VF MXZ-4F83VFHZ |
| | | 5-port up to 5 indoor units MXZ-5F102VF | 6-port up to 6 indoor units MXZ-6F122VF | |
| Cassette SLZ MLZ-KP | | | | |

| R410A INDOOR UNITS | | R410A OUTDOOR UNITS | | |
|---|---|--|---|---|
| Wall-mounted MSZ-LN (25·35) MSZ-AP25-50 MSZ-AP15-20 MSZ-SF25-50 MSZ-FH MSZ-SF15-20 MSZ-EF MSZ-GF | Floor-standing MFZ-KJ Ceiling-suspended PCA Ceiling-concealed SEZ PEAD | 2-port up to 2 indoor units MXZ-2D33VA MXZ-2D42VA2 MXZ-2D53VA(H)2 MXZ-2E53VAHZ | 3-port up to 3 indoor units MXZ-3E54VA MXZ-3E68VA | 4-port up to 4 indoor units MXZ-4E72VA MXZ-4E83VA MXZ-4E83VAHZ |
| | | 5-port up to 5 indoor units MXZ-5E102VA | 6-port up to 6 indoor units MXZ-6D122VA2 | |
| Cassette SLZ MLZ-KP PLA | | | | |

CHECK SYSTEM COMPATIBILITY

Possible combinations depends on the outdoor unit chosen. Please check the following points.

Check Indoor Units

Refer to the "Indoor Unit Compatibility Table" to check if the indoor units selected can be used with the outdoor unit selected. (Indoor units not listed in the table cannot be used.)

Check Indoor Unit Capacity Combination

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.



R32

2-port

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



R32

3-port 4-port

MXZ-3F54VF3
MXZ-3F68VF3
MXZ-4F72VF3
MXZ-4F80VF3



R32

4-port 5-port

MXZ-4F83VF
MXZ-5F102VF



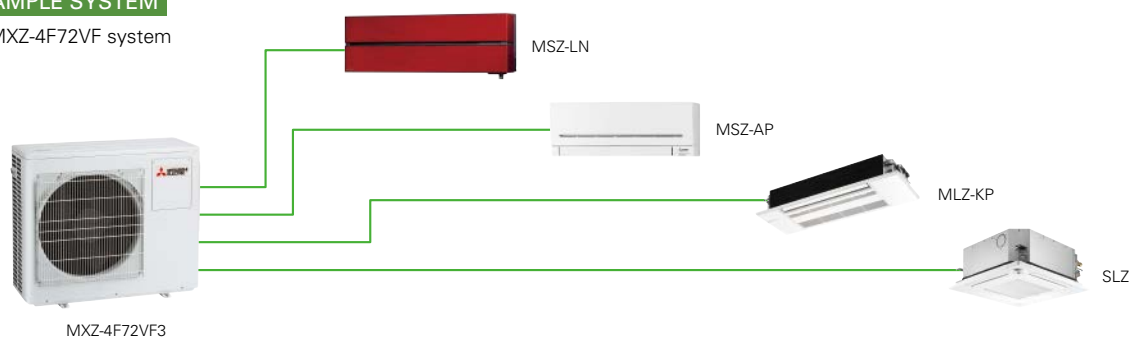
R32

6-port

MXZ-6F122VF

EXAMPLE SYSTEM

MXZ-4F72VF system



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

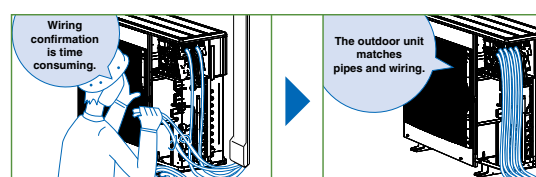
The MXZ Series for R32 offers a ten-system line-up to choose from, ranging between 3.3 and 12.2kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

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 Units | | | Up to 5 Indoor Units | |
|---|--------------------------------------|--|--------|-------------------------------|-----------------|---------------------|-----------------|-----------------------------|-----------------|----------------------|------------------|--------------------------------|----------------------|----------------------|
| Indoor Unit | | | | Please refer to *3 | | | | | | | | | | |
| Outdoor Unit | | | | MXZ-2F33VF3 | MXZ-2F42VF3 | MXZ-2F53VF3 | MXZ-2F53VFH3 | MXZ-3F54VF3 | MXZ-3F68VF3 | MXZ-4F72VF3 | MXZ-4F80VF3 | MXZ-4F83VF3 | MXZ-5F102VF | |
| Refrigerant | | | | R32 *1 | | | | | | | | | | |
| Power Supply | Source | | | | | | | | | | | | | |
| | Outdoor (V/Phase/Hz) | Outdoor power supply 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 (Average Season) | Capacity | Rated | kW | 4.0 | 4.5 | 6.4 | 6.4 | 7.0 | 8.6 | 8.6 | 8.8 | 9.3 | 10.5 | |
| | Input | Rated | kW | 0.91 | 0.88 | 1.56 | 1.56 | 1.40 | 1.91 | 1.87 | 2.00 | 2.00 | 2.28 | |
| | 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 Capacity | at reference design temperature | kW | 2.2 | 2.7 | 2.7 | 2.7 | 4.2 | 5.7 | 5.6 | 5.6 | 5.8 | 5.9 | |
| | | at bivalent temperature | kW | 2.4 | 2.9 | 2.9 | 2.9 | 4.7 | 6.4 | 6.2 | 6.2 | 6.2 | 6.4 | |
| | | at operation 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+ | A+ | A+ | A++ | A++ | | |
| Operating Current (max) | | | | A | 10.0 | 12.2 | 12.2 | 12.2 | 18.0 | 18.0 | 18.0 | 21.4 | 21.4 | |
| Outdoor Unit | Dimensions | H x W x D | mm | 550 - 800 (+69) - 285 (+59.5) | | | | 710 - 840 (+30) - 330 (+66) | | | | 796 - 950 - 330 | | |
| | 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 | |
| | | Heating | dB(A) | 60 | 59 | 61 | 61 | 60 | 63 | 63 | 65 | 61 | 65 | |
| | Operating Current | Cooling | A | 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 | A | 4.6 - 4.4 - 4.2 | 4.4 - 4.3 - 4.1 | 7.5 - 7.1 - 6.8 | 7.5 - 7.1 - 6.8 | 6.4 - 6.1 - 5.9 | 8.8 - 8.4 - 8.0 | 8.6 - 8.2 - 7.9 | 9.2 - 8.8 - 8.4 | 9.2 - 8.8 - 8.4 | 10.5 - 10.0 - 9.6 | |
| Breaker Size | | A | 15 | 15 | 15 | 15 | 25 | 25 | 25 | 25 | 25 | 25 | | |
| Ext. Piping | Port Diameter | Liquid / Gas | mm | 6.35 x 2 / 9.52 x 2 | | 6.35 x 2 / 9.52 x 2 | | 6.35 x 3 / 9.52 x 3 | | 6.35 x 3 / 9.52 x 3 | | 6.35 x 4 / 12.7 x 1 + 9.52 x 3 | | 6.35x5/12.7x1+9.52x4 |
| | Total Piping Length (max) | | m | 20 | 30 | 30 | 30 | 50 | 60 | 60 | 60 | 70 | 80 | |
| | Each Indoor Unit Piping 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 | |
| Guaranteed Operating Range [Outdoor] | | Cooling | °C | -10 ~ +46 | | | | -10 ~ +46 | | | | -10 ~ +46 | | |
| | | Heating | °C | -15 ~ +24 | | | | -20 ~ +24 | | | | -15 ~ +24 | | |

| Type (Inverter Multi - Split Heat Pump) | | | | Up to 6 Indoor Units | |
|---|--------------------------------------|--------------------------------|-----------|----------------------|--|
| Indoor Unit | | | | Please refer to (*4) | |
| Outdoor Unit | | | | MXZ-6F122VF | |
| Refrigerant | | | | R32*1 | |
| Power Supply | Source | Outdoor power supply | | | |
| | Outdoor (V/Phase/Hz) | 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 | |
| Operating Current (max) | | | A | 29.8 | |
| Outdoor Unit | Dimensions | H x W x D | mm | 1048 - 950 - 330 | |
| | 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 | | A | 32 | |
| Ext. Piping | Diameter | Liquid | mm | 6.35 x 6 | |
| | | 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 | |
| Guaranteed Operating Range [Outdoor] | Cooling | °C | -10 ~ +46 | | |
| | Heating | °C | -15 ~ +24 | | |

*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 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 Energy consumption based on standard test results.

*3 Actual energy consumption will depend on how the appliance is used and where it is located.

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

MXZ-2F33VF3 → MSZ-AP15VG + MSZ-LN18VG2
 MXZ-2F42VF3 → MSZ-LN18VG2 + MSZ-LN25VG2
 MXZ-2F53VF(H)3 → MSZ-LN18VG2 + MSZ-LN35VG2
 MXZ-3F54VF3 → MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2
 MXZ-3F68VF3 → MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2
 MXZ-4F72VF3 → MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2
 MXZ-4F80VF3 → MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2
 MXZ-4F83VF → MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2
 MXZ-5F102VF → MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2

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

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

4-port 5-port

MXZ-4E83VA
MXZ-5E102VA



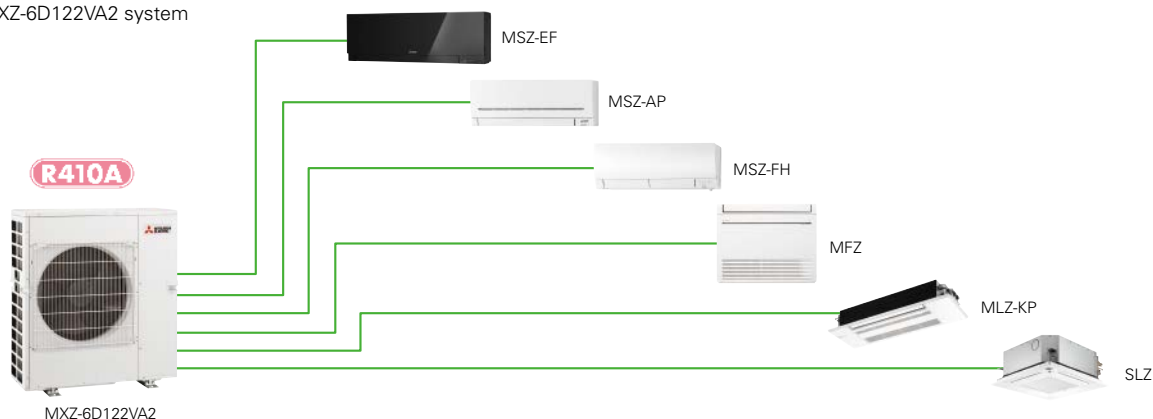
R410A

6-port

MXZ-6D122VA2

EXAMPLE SYSTEM

MXZ-6D122VA2 system



Handle Up to 6 Rooms with a Single Outdoor Unit

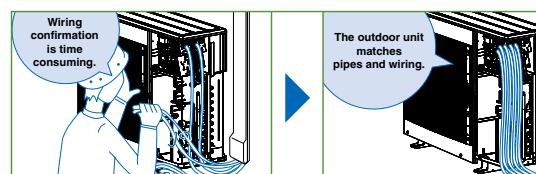
The MXZ Series offers a nine-system line-up to choose from, ranging between 3.3 and 12.2kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

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°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 (Inverter Multi - Split Heat Pump) | | | | Up to 2 Indoor Units | | | | Up to 3 Indoor Units | | Up to 4 Indoor Units | | Up to 5 Indoor Units |
|---|----------------------------------|---------------------------------|-----------|-----------------------------|----------------|----------------|-----------------|---------------------------|---------------|----------------------|-----------------|----------------------|
| Indoor Unit | | | | Please refer to (*4) | | | | | | | | |
| Outdoor Unit | | | | 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 |
| Refrigerant | | | | R410A*1 | | | | | | | | |
| Power Supply | Source | Outdoor power supply | | | | | | | | | | |
| | Outdoor (V/Phase/Hz) | 220 - 230 - 240V / Single / 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 Consumption*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 | | A | A++ | A++ | A++ | A++ | A+ | A+ | A+ | A++ | A++ |
| Heating (Average Season) | Capacity | Rated | kW | 4.0 | 4.5 | 6.4 | 6.4 | 7.0 | 8.6 | 8.6 | 9.3 | 10.5 |
| | | 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 |
| | 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 Capacity | at reference design temperature | kW | 2.1 | 2.7 | 3.7 | 3.6 | 4.0 | 5.4 | 5.6 | 7.1 | 7.3 |
| | | at bivalent temperature | kW | 2.4 | 3.0 | 4.0 | 4.0 | 4.49 | 6.0 | 6.2 | 7.8 | 7.9 |
| | | at operation limit temperature | kW | 1.7 | 2.3 | 3.3 | 3.0 | 3.17 | 4.4 | 4.7 | 6.0 | 6.3 |
| | Back Up Heating Capacity | kW | 0.6 | 0.5 | 0.8 | 0.9 | 1.0 | 1.4 | 1.4 | 1.6 | 1.6 | |
| | Annual Electricity Consumption*2 | 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+ | A | A | A+ | A+ | |
| Max. Operating Current (Indoor+Outdoor) | | | A | 10.0 | 12.2 | 12.2 | 12.2 | 18.0 | 18.0 | 18.0 | 21.4 | 21.4 |
| Outdoor Unit | Dimensions | H x W x D | mm | 550 - 800(+69) - 285(+59.5) | | | | 710 - 840(+30) - 330(+66) | | | 796 - 950 - 330 | |
| | 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 | 49 | 52 | |
| | | Heating | dB(A) | 50 | 51 | 53 | 53 | 53 | 53 | 51 | 56 | |
| | Sound Level (PWL) | Cooling | dB(A) | 63 | 60 | 64 | 64 | 64 | 64 | 61 | 65 | |
| | Breaker Size | A | 10 | 15 | 15 | 15 | 25 | 25 | 25 | 25 | 25 | |
| | Diameter | Liquid | mm | 6.35 x 2 | 6.35 x 2 | 6.35 x 2 | 6.35 x 2 | 6.35 x 3 | 6.35 x 3 | 6.35 x 4 | 6.35 x 4 | 6.35 x 5 |
| Gas | mm | 9.52 x 2 | 9.52 x 2 | 9.52 x 2 | 9.52 x 2 | 9.52 x 3 | 9.52 x 3 | 12.7x1+9.52x3 | 12.7x1+9.52x3 | 12.7x1+9.52x4 | | |
| Total Piping Length (max) | | | m | 20 | 30 | 30 | 50 | 60 | 60 | 70 | 80 | |
| Each Indoor Unit Piping Length (max) | | | m | 15 | 20 | 20 | 25 | 25 | 25 | 25 | 25 | |
| Max. Height | | | m | 10 | 15 (10)*3 | 15 (10)*3 | 15 (10)*3 | 15 (10)*3 | 15 (10)*3 | 15 (10)*3 | 15 (10)*3 | |
| Chargeless Length | | | m | 20 | 20 | 20 | 40 | 40 | 40 | 25 | 0 | |
| Guaranteed Operating Range [Outdoor] | Cooling | °C | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 |
| | Heating | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -20 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

N: Please refer to the NOTE below.

| Type (Inverter Multi - Split Heat Pump) | | | | Up to 6 Indoor Units | | |
|---|---------------------------|-----------|--------------------------------|----------------------|---------------------|--|
| Indoor Unit | | | | Please refer to (*5) | | |
| Outdoor Unit | | | | MXZ-6D122VA2 | | |
| Refrigerant | | | | R410A*1 | | |
| Power Supply | Source | | | Outdoor power supply | | |
| | Outdoor (V/Phase/Hz) | | 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 | |
| | Operating Current (max)*5 | | | A | 26.8 | |
| Outdoor Unit | Dimensions | H x W x D | mm | 1048-950-330 | | |
| | 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 | | A | 32 | | |
| | Ext. Piping | Diameter | Liquid | mm | 6.35×6 | |
| | | | 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)*3 | | | |
| Chargeless Length | | m | 30 | | | |
| Guaranteed Operating Range [Outdoor] | | Cooling | °C | -10 ~ +46 | | |
| | Heating | °C | -15 ~ +24 | | | |

*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 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.

MXZ-2D33VA → MSZ-SF15VA + MSZ-EF18VE
MXZ-2D42VA2 → MSZ-EF18VE + MSZ-EF25VE
MXZ-2D53VA(H)2 → MSZ-EF18VE + MSZ-EF35VE
MXZ-3E54VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE
MXZ-3E68VA → MSZ-EF18VE + MSZ-EF25VE + MSZ-EF25VE
MXZ-4E72VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE
MXZ-4E83VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF25VE
MXZ-5E102VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF22VE

*5 Power input and operating current (max) figures are for outdoor unit only

*6 EER/COP, EEL rank, values and energy efficiency class are measured

when connected to the indoor units listed below.

MXZ-6D122VA2 → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE + MSZ-EF25VE

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

NOTE

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 MFZ-KJ indoor units | Pipe length (L) | Maximum amount of refrigerant |
|----------------------------|--|-------------------------------|
| | ~20m | |
| 1 unit | 100g additional (Total 1250g) | 1250g |
| 2 units | Not available (Only one MFZ-KJ series indoor unit can be connected.) | |

MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2

| No. of MFZ-KJ indoor units | Pipe length (L) | | Maximum amount of refrigerant |
|----------------------------|-------------------------------|----------------------|-------------------------------|
| | ~20m | ~30m | |
| 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 MFZ-KJ indoor units | Pipe length (L) | | Maximum amount of refrigerant |
|----------------------------|-------------------------------|----------------------|-------------------------------|
| | ~40m | ~50m | |
| 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 MFZ-KJ indoor units | Pipe length (L) | | Maximum amount of refrigerant |
|----------------------------|-------------------------------|----------------------|-------------------------------|
| | ~40m | ~60m | |
| 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.



R32

2-port

MXZ-2HA40VF
MXZ-2HA50VF



R32

3-port

MXZ-3HA50VF

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.



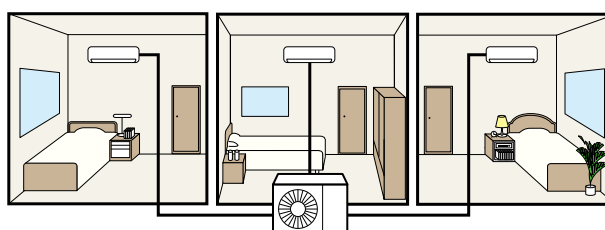
Easy to create various combinations

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

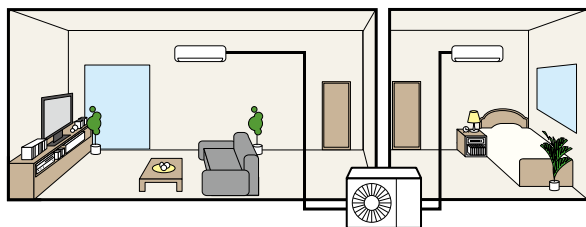
Two bedrooms



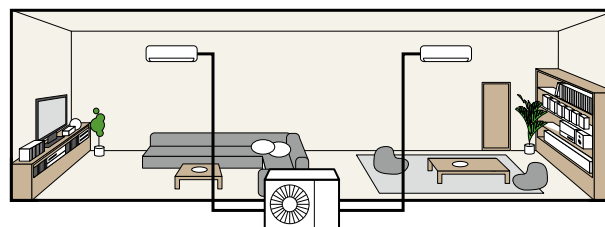
Three bedrooms



Living room and one bedroom



Wide living room



MXZ-HA SERIES

INVERTER MULTI



| Type (Inverter Multi - Split Heat Pump) | | | | Up to 2 Indoor Units | | Up to 3 Indoor Units | | |
|---|----------------------------------|--------------------------------------|--------------|-------------------------------|-------------------------------|-----------------------------|---------------------|--|
| Indoor Unit | | | | Please refer to (*4) | | | | |
| Outdoor Unit | | | | MXZ-2HA40VF | MXZ-2HA50VF | MXZ-3HA50VF | | |
| Refrigerant | | | | R32*1 | | | | |
| Power Supply | Source | | | Outdoor power supply | | | | |
| | Outdoor (V/Phase/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 | A | A | | |
| | Design Load | | kW | 4.0 | 5.0 | 5.0 | | |
| | Annual Electricity Consumption*2 | | kWh/a | 172 | 225 | 241 | | |
| | SEER | | | 8.12 | 7.78 | 7.26 | | |
| | | Energy Efficiency Class*4 | | A++ | A++ | A++ | | |
| | Capacity | Rated | kW | 4.3 | 6.0 | 6.0 | | |
| | Input | Rated | kW | 0.91 | 1.54 | 1.30 | | |
| Heating (Average Season) | COP*4 | | | 4.73 | 3.90 | 4.62 | | |
| | | EEL Rank*4 | | A | A | A | | |
| | Design Load | | kW | 3.2 | 3.2 | 4.0 | | |
| | Declared Capacity | at reference design temperature | kW | 2.4 | 2.4 | 3.0 | | |
| | | at bivalent temperature | kW | 2.9 | 2.9 | 3.6 | | |
| | | at operation limit temperature | kW | 2.1 | 2.1 | 2.6 | | |
| | Back Up Heating Capacity | | kW | 0.8 | 0.8 | 1.0 | | |
| | Annual Electricity Consumption*2 | | kWh/a | 1043 | 1043 | 1394 | | |
| | SCOP*4,*5 | | | 4.30 | 4.30 | 4.02 | | |
| | | Energy Efficiency Class*4 | | A+ | A+ | A+ | | |
| Operating Current (max) | | | A | 12.2 | 12.2 | 18.0 | | |
| Outdoor Unit | Dimensions | H x W x D | mm | 550 - 800 (+69) - 285 (+59.5) | 550 - 800 (+69) - 285 (+59.5) | 710 - 840 (+30) - 330 (+66) | | |
| | Weight | | 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 | A | 4.9 | 6.8 | 5.6 | | |
| | | Heating | A | 4.6 | 6.9 | 5.8 | | |
| | Breaker Size | | A | 15 | 15 | 25 | | |
| | Ext. Piping | Port Diameter | Liquid / Gas | mm | 6.35 x 2 / 9.52 x 2 | 6.35 x 2 / 9.52 x 2 | 6.35 x 3 / 9.52 x 3 | |
| | | Total Piping Length (max) | | m | 30 | 30 | 50 | |
| | | Each Indoor Unit Piping Length (max) | | m | 20 | 20 | 25 | |
| Max. Height | | | m | 15 (10)*3 | 15 (10)*3 | 15 (10)*3 | | |
| Chargeless Length | | | m | 30 | 30 | 40 | | |
| Guaranteed Operating Range [Outdoor] | | Cooling | °C | -10 ~ +46 | | | | |
| | | Heating | °C | -15 ~ +24 | | | | |

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

MXZ-2HA40VF MSZ-HR25VF + MSZ-HR25VF

MXZ-2HA50VF MSZ-HR25VF + MSZ-HR25VF

MXZ-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 SERIES

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



R410A

(2-port)

MXZ-2DM40VA



R410A

(3-port)

MXZ-3DM50VA

Stylish Design with Flat Panel Front

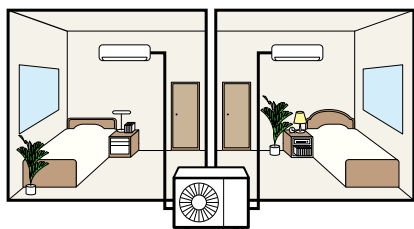
A stylish flat panel design is employed for the front of the indoor unit. The simple look matches room aesthetics.



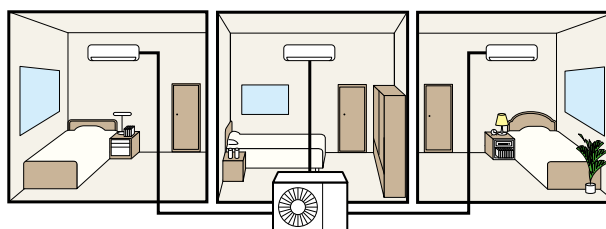
Easy to create various combinations

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

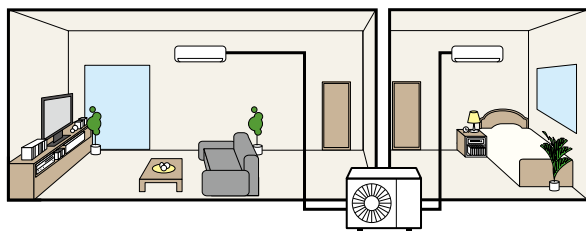
Two bedrooms



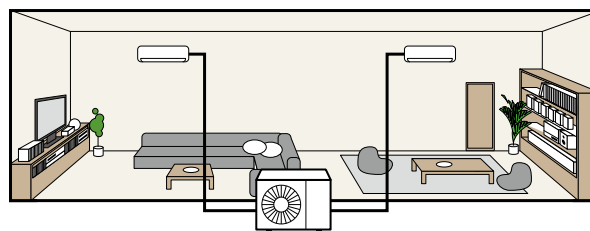
Three bedrooms



Living room and one bedroom



Wide living room

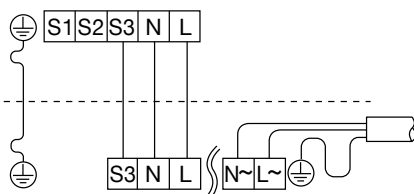


Attention MXZ-DM is exclusively for connection to MSZ-HJ and DM. Please check to make sure that wiring is done correctly.

For MXZ-DM

MSZ-HJ/DM

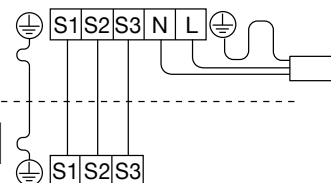
MXZ-2DM
MXZ-3DM



For MSZ-HJ/DM / MUZ-HJ/DM

MSZ-HJ/DM

MUZ-HJ/DM





| Type (Inverter Multi - Split Heat Pump) | | | | Up to 2 Indoor Units | Up to 3 Indoor Units |
|---|--------------------------------------|---------------------------------|---------------------|-------------------------------|-----------------------------|
| Indoor Unit | | | | Please refer to (*4) | |
| Outdoor Unit | | | | MXZ-2DM40VA | MXZ-3DM50VA |
| Refrigerant | | | | R410A*1 | |
| Power Source | | | | Outdoor power supply | |
| Supply Outdoor (V/Phase/Hz) | | | | 230 / Single / 50 | |
| Cooling | Capacity | Rated | kW | 4.0 | 5.0 |
| | Input*4 | Rated | kW | 1.05 | 1.13 |
| | EER*4 | | | 3.81 | 4.42 |
| | | EEL Rank*4 | | A | A |
| | Design Load | | kW | 4.0 | 5.0 |
| | Annual Electricity Consumption*2 | | kWh/a | 226 | 283 |
| | SEER*4, *5 | | | 6.1 | 6.1 |
| | | Energy Efficiency Class*4 | | A++ | A++ |
| | Capacity | Rated | kW | 4.3 | 6.0 |
| | Input | Rated | kW | 1.16 | 1.31 |
| Heating (Average Season) | COP*4 | | | 3.71 | 4.58 |
| | | EEL Rank*4 | | A | A |
| | Design Load | | kW | 3.2 | 4.0 |
| | Declared Capacity | at reference design temperature | kW | 2.73 | 3.34 |
| | | at bivalent temperature | kW | 3.01 | 3.73 |
| | | at operation limit temperature | kW | 2.27 | 2.70 |
| | Back Up Heating Capacity | | kW | 0.47 | 0.66 |
| | Annual Electricity Consumption*2 | | kWh/a | 1105 | 1455 |
| | SCOP*4, *5 | | | 4.0 | 3.8 |
| | | Energy Efficiency Class*4 | | A+ | A |
| Operating Current (max) | | | | 12.2 | 18.0 |
| Outdoor Unit | Dimensions | H x W x D | mm | 550 - 800 (+69) - 285 (+59.5) | 710 - 840 (+30) - 330 (+66) |
| | Weight | | kg | 32 | 57 |
| | Air Volume | Cooling | m ³ /min | 29.2 | 37.5 |
| | | Heating | m ³ /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 | A | 5.1 | 5.0 |
| | | Heating | A | 5.6 | 5.8 |
| | Breaker Size | | A | 15 | 25 |
| Ext. Piping | Port Diameter | Liquid / Gas | mm | 6.35 x 2 / 9.52 x 2 | 6.35 x 3 / 9.52 x 3 |
| | Total Piping Length (max) | | m | 30 | 50 |
| | Each Indoor Unit Piping Length (max) | | m | 20 | 25 |
| | Max. Height | | m | 15 (10)*3 | 15 (10)*3 |
| | Chargeless Length | | m | 20 | 40 |
| Guaranteed Operating Range [Outdoor] | | | | -10 ~ +46 | -15 ~ +24 |
| | | | | Cooling | °C |
| | | | | Heating | °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 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 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.

MXZ-2DM40VA, 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

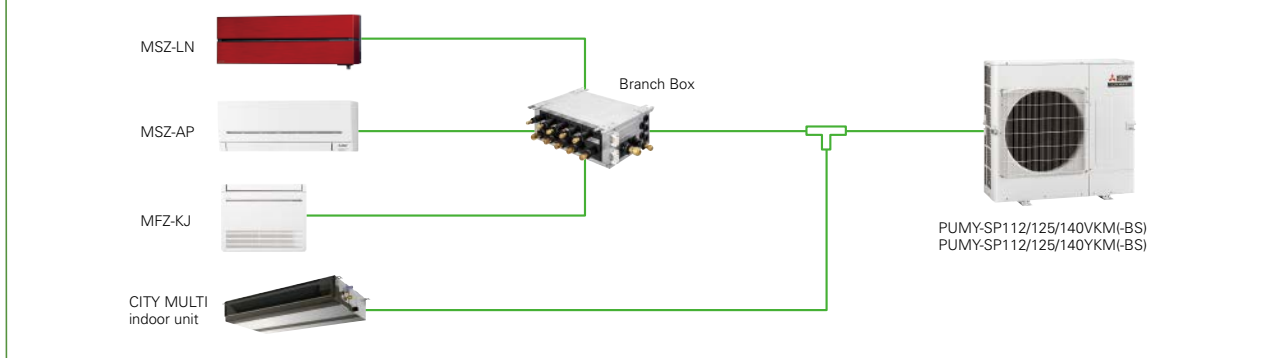
Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.



R410A

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

EXAMPLE SYSTEM



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.



PUMY-P112/125/140YKM4(-BS)

Height 1,338mm
Weight 125kg

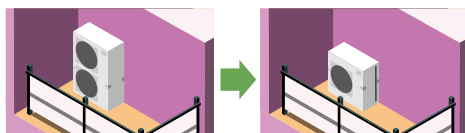


PUMY-SP112/125/140YKM(-BS)

Height 981mm **27% reduction**
Weight 94kg **25% reduction**

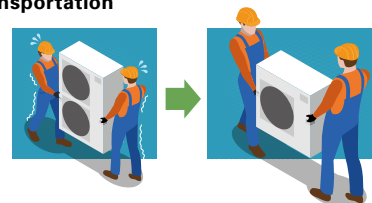
Unobstructive, compact, and easy to hide from view

Conventional 2-fan type outdoor units may spoil the view. Due to its compact size, the new outdoor fan unit can be installed in locations that would have been inappropriate.



Easy installation and transportation

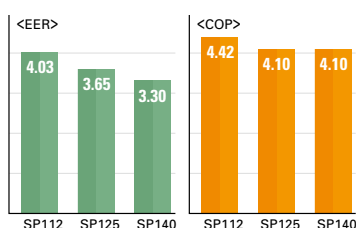
The reduced weight and height allow for better transportation performance. Carrying and installing become easier.



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.

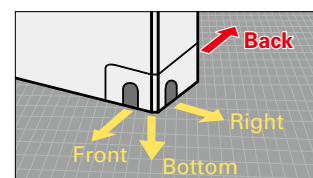
*PAC-SC36NA-E is required to activate Super Silent mode.

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.

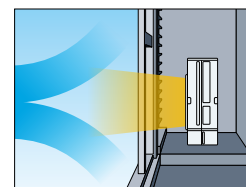
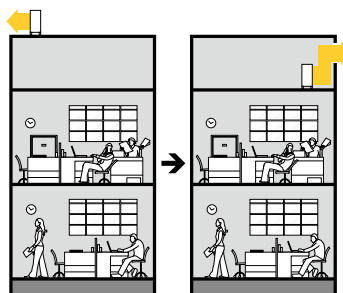
The out-door unit with an expanded piping layout flexibility greatly improves piping workability.



An external static pressure of 30Pa

The installation location is flexible, thanks to its 30Pa static pressure. You can install it in locations that you could not before.

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.

| Model | | | PUMY-SP112VKM(-BS) | PUMY-SP125VKM(-BS) | PUMY-SP140VKM(-BS) | PUMY-SP112YKM(-BS) | PUMY-SP125YKM(-BS) | PUMY-SP140YKM(-BS) | |
|--|------------------------|---------------------|---|-------------------------------------|-------------------------------|---|---------------------------|---------------------------|---------------------------|
| Power Source | | | 1-phase 220 - 230 - 240V 50Hz / 220V 60Hz | | | 3-phase 380 - 400 - 415V 50Hz / 380V 60Hz | | | |
| Cooling Capacity (nominal) | *1 | | kW | 12.5 | 14.0 | 15.5 | 12.5 | 14.0 | 15.5 |
| | Power Input | | kW | 3.10 | 3.84 | 4.70 | 3.10 | 3.84 | 4.70 |
| | Current Input | | A | 14.38 - 13.75 - 13.18 / 14.38 | 17.81 - 17.04 - 16.33 / 17.81 | 21.80 - 20.85 - 19.88 / 21.80 | 4.96 - 4.71 - 4.54 / 4.96 | 6.14 - 5.83 - 5.62 / 6.14 | 7.52 - 7.14 - 6.88 / 7.52 |
| | EER | | kW/kW | 4.03 | 3.65 | 3.30 | 4.03 | 3.65 | 3.30 |
| Temp. Range of Cooling*4 | 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 |
| | 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 |
| Heating Capacity (nominal) | *2 | | kW | 14.0 | 16.0 | 16.5 | 14.0 | 16.0 | 16.5 |
| | Power Input | | kW | 3.17 | 3.90 | 4.02 | 3.17 | 3.90 | 4.02 |
| | Current Input | | A | 14.70 - 14.06 - 13.48 / 14.70 | 18.09 - 17.30 - 16.58 / 18.09 | 18.65 - 17.83 - 17.09 / 18.65 | 5.07 - 4.82 - 4.64 / 5.07 | 6.24 - 5.93 - 5.71 / 6.24 | 6.43 - 6.11 - 5.89 / 6.43 |
| | COP | | kW/kW | 4.42 | 4.10 | 4.10 | 4.42 | 4.10 | 4.10 |
| Temp. Range of Heating | 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 |
| | 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 |
| Indoor Unit Connectable | Total Capacity | | 50 to 130% of outdoor unit capacity | | | | | | |
| | Model / Quantity | | City Multi*10 | 10 - 140 / 9 | 10 - 140 / 10 | 10 - 140 / 12 | 10 - 140 / 9 | 10 - 140 / 10 | 10 - 140 / 12 |
| | | | Branch Box*9 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 |
| | Mixed System | Branch Box 1 unit | City Multi | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 |
| | | | Branch Box | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 |
| | | | City Multi | 10 - 140 / 3 or 2*7 | 10 - 140 / 3 | 10 - 140 / 3 | 10 - 140 / 3 or 2*7 | 10 - 140 / 3 | 10 - 140 / 3 |
| | | | Branch Box | 15 - 100 / 7 or 8*7 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 7 or 8*7 | 15 - 100 / 8 | 15 - 100 / 8 |
| Branch Box 2 units | City Multi | 10 - 140 / 3 or 2*7 | 10 - 140 / 3 | 10 - 140 / 3 | 10 - 140 / 3 or 2*7 | 10 - 140 / 3 | 10 - 140 / 3 | | |
| | Branch Box | 15 - 100 / 7 or 8*7 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 7 or 8*7 | 15 - 100 / 8 | 15 - 100 / 8 | | |
| Sound Pressure Level (Cooling / Heating) | dB <A> | | 52 / 54 | 53 / 56 | 54 / 56 | 52 / 54 | 53 / 56 | 54 / 56 | |
| Sound Power Level (Cooling) | dB <A> | | 72 | 73 | 74 | 72 | 73 | 74 | |
| Refrigerant Piping Diameter | Liquid Pipe | | 9.52 Flare | | | | | | |
| | Gas Pipe | | 15.88 Flare | | | | | | |
| Fan | Type x Quantity | | Propeller Fan x 1 | | | | | | |
| | Air Flow Rate | | m³/min | 77 | 83 | 83 | 77 | 83 | 83 |
| | | | L/s | 1,283 | 1,383 | 1,383 | 1,283 | 1,383 | 1,383 |
| | | | cfm | 2,719 | 2,931 | 2,931 | 2,719 | 2,931 | 2,931 |
| | Motor Output | | kW | 0.20 | | | | | |
| | External Static Press. | | Pa | 0 Pa / 30 Pa*8 | | | | | |
| | Compressor | Type x Quantity | | Twin rotary hermetic compressor x 1 | | | | | |
| Starting Method | | Inverter | | | | | | | |
| Motor Output | | kW | 3.1 | 3.5 | 3.7 | 3.1 | 3.5 | 3.7 | |
| External Dimensions (H x W x D) | mm | | 981×1,050×330 (+40) | | | | | | |
| Net Weight | kg (lbs) | | 93 (205)*5 | | | 94 (207)*6 | | | |
| Pre-Charged Quantity | Weight | | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | |
| | CO2 Equivalent | | t | 7.31 | 7.31 | 7.31 | 7.31 | 7.31 | |
| Max Added Quantity | Weight | | kg | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | |
| | CO2 Equivalent | | t | 18.79 | 18.79 | 18.79 | 18.79 | 18.79 | |

*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 |

*3 10 to 52°C; In case of connecting PKFY-P15/P20/P25VBM, PKFY-P10/15/20/25/32VLM, PFFY-P20/P25/P32VKM, PFFY-P20/25/32VCM, 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-SP112/125/140YKM(-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.

*8 0 Pa as initial setting

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

*10 It is possible to connect 1 Fresh Air type indoor unit to 1 outdoor unit. (1:1 system)

| Type | | | Branch Box | | |
|------------------------------------|----------------------|-----------|--|----------------------|------------|
| Model Name | | | PAC-MK54BC | | PAC-MK34BC |
| Connectable Number of Indoor 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 | 0.05 (Max. 6) | | |
| Dimensions | | H × W × D | 170 × 450 × 280 | | |
| Weight | | kg | 7.4 | | 6.7 |
| Piping Connection (Flare) | Branch [Indoor Side] | Liquid | mm | ø6.35 × 5 | |
| | | Gas | mm | ø9.52 × 4, ø12.7 × 1 | |
| | Main [Outdoor Side] | Liquid | mm | ø9.52 | |
| | | Gas | mm | ø15.88 | |
| | | | | | |

* 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.)

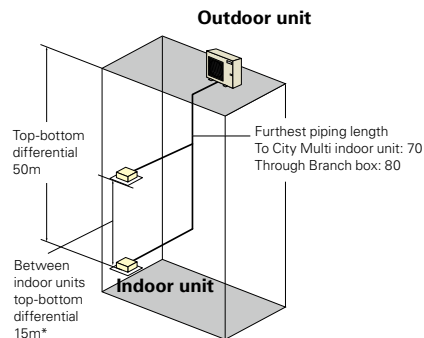
<Branch box compatible table>

| Outdoor unit | Branch box | PAC-MK31/51BC(B) | PAC-MK32/52BC(B) | PAC-MK33/53BC(B) | PAC-MK34/54BC |
|-------------------|---------------------------------|------------------|------------------|------------------|---------------|
| Outdoor unit 1fan | PUMY-SP112/125/140V/ YKM(-BS) | ✓ | N/A | N/A | N/A |
| | PUMY-SP112/125/140V/ YKMR1(-BS) | N/A | N/A | ✓ | ✓ |
| | PUMY-SP112/125/140V/ YKM(-BS)R2 | N/A | N/A | ✓ | ✓ |
| Outdoor unit 2fan | PUMY-P112/125/140V/YKM4(-BS) | ✓* | ✓ | ✓ | ✓ |
| | PUMY-P112/125/140V/YKM4R1(-BS) | ✓* | ✓ | ✓ | ✓ |
| | PUMY-P112/125/140V/YKM5(-BS) | ✓* | ✓ | ✓ | ✓ |
| | PUMY-P112/125/140V/YKM4(-BS)R2 | ✓* | ✓ | ✓ | ✓ |
| Outdoor unit 8HP | PUMY-P200YKM2(-BS) | ✓ | ✓ | ✓ | ✓ |
| | PUMY-P200YKM2R1(-BS) | ✓ | ✓ | ✓ | ✓ |
| | PUMY-P200YKM2(-BS)R2 | ✓ | ✓ | ✓ | ✓ |

*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 unit: 70 | Indoor/outdoor (outdoor lower) | 30 |
| | Through Branch box: 80 | Indoor/indoor | 15* |



*In case of branch box connection: 12m

PUMY-P SERIES

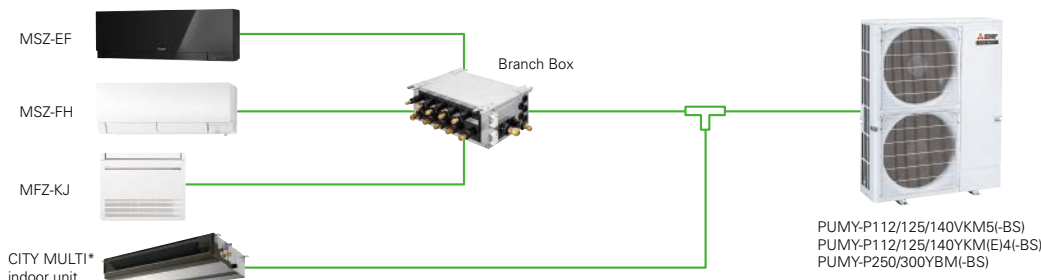
Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.



R410A

PUMY-P112/125/140VKM5(-BS)
PUMY-P112/125/140YKM(E)4(-BS)
PUMY-P200YKM2(-BS)
PUMY-P250/300YBM(-BS)

EXAMPLE SYSTEM



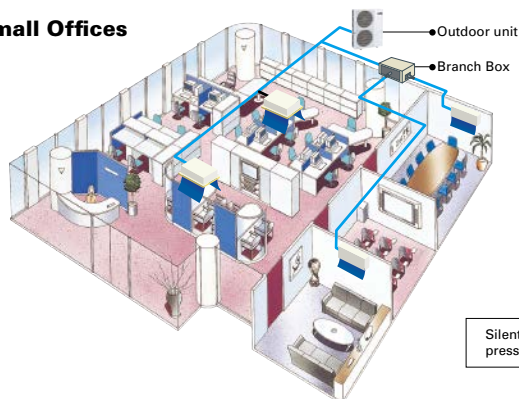
*In case of mix system (CITY MULTI indoor unit with Branch box), PKFY and PFFY series are not connectable. (P112/125/140/250/300)

The two-pipe zoned system designed for Heat Pump Operation

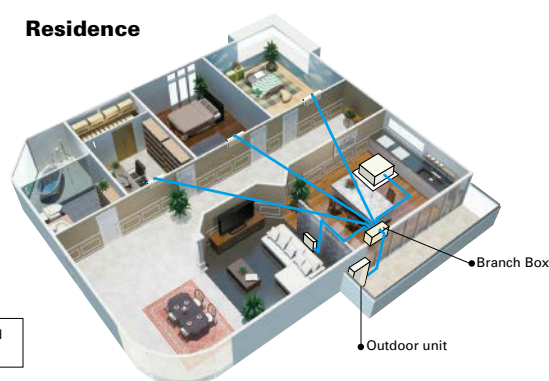
PUMY series make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively.

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 (P250/300: Up to 30) 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.

Small Offices



Residence



Silent mode can reduce sound pressure level by 3dB(A)

| | | | Maximum Meters | | | |
|--------------|---|---|----------------------------------|-------------------------------|--|----------------|
| P112/125/140 | Refrigerant Piping Length | Total Length | Only City Multi*1 Indoor Unit | Only Branch Box Connection | Mixed System (City Multi*1 Indoor Unit + Branch Box) City Multi*1 Indoor Unit | Via Branch Box |
| | | Maximum Allowable Length | 300 | 150 | 240 (2 Branch boxes) / 300 (1 Branch box) | 80 |
| P112/125/140 | Vertical Differentials Between Units | Farthest Indoor From First Branch | 150 (175 equivalent) | 80 | 85 (95 equivalent) | 80 |
| | | Piping Length Between Outdoor Unit and Branch Boxes | 30 | — | 30 | — |
| | | Indoor/Outdoor (Outdoor higher) | — | 55 | — | 55 |
| | Vertical Differentials Between Units | Indoor/Outdoor (Outdoor Lower) | 50 | 50 | 50 | 50 |
| | | Indoor/Outdoor (Outdoor Lower) | 40*2 | 40 | 40 | 40 |
| | | Indoor/Indoor | 15 | 12 | 12 | 12 |
| P200 | Refrigerant Piping Length | Total Length | 150 | 150 | 150 | 150 |
| | | Maximum Allowable Length | 80 (90 equivalent) | 80 | 80 (90 equivalent) | 80 |
| | | Farthest Indoor From First Branch | 30 | — | 30 | — |
| | Vertical Differentials Between Units | Piping Length Between Outdoor Unit and Branch Boxes | — | 55 | — | 55 |
| | | Indoor/Outdoor (Outdoor higher) | 50 | 50 | 50 | 50 |
| | | Indoor/Outdoor (Outdoor Lower) | 40 | 40 | 40 | 40 |
| P250/300 | Refrigerant Piping Length | Indoor/Indoor | 15 | 12 | 12 | 12 |
| | | Total Length | 310 | 240 | 310 | 310 |
| | | Maximum Allowable Length | 150 (175 equivalent) | 80 | 85 (95 equivalent) | 80 |
| | Vertical Differentials Between Units | Farthest Indoor From First Branch | 30 | — | 30 | — |
| | | Piping Length Between Outdoor Unit and Branch Boxes | — | 95 | — | 95 |
| | | Indoor/Outdoor (Outdoor higher) | 50 | 50 | 50 | 50 |
| P250/300 | Vertical Differentials Between Units | Indoor/Outdoor (Outdoor Lower) | 40 | 40 | 40 | 40 |
| | | Indoor/Indoor | 15 | 12 | 12 | 12 |

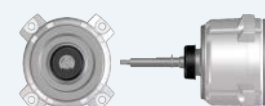
*1 Include system with connection kit *2 In case of including PKFY or PFFY, height between units is 30m.

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.

30Pa external static pressure fan motor (option)
(PAC-SJ71FM-E)





| Model | | | PUMY-P112VKM5(-BS) | | | PUMY-P125VKM5(-BS) | | | PUMY-P140VKM5(-BS) | | | PUMY-P112YKM4(-BS) | | | PUMY-P125YKM4(-BS) | | | PUMY-P140YKM4(-BS) | | | PUMY-P200YKM2(-BS) | | | PUMY-P250YBM(-BS) | | | PUMY-P300YBM(-BS) | | |
|--|------------------|-------------------|-------------------------------|-------------------------------------|---------------|-----------------------|---------------------|-----------------------|-------------------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|-------------|-----------------------|-----------|-----------------------|---------------------------|-----------|--|-------------------|--|--|-------------------|--|--|
| Power Source | | | 1-phase 220 - 230 - 240V 50Hz | | | | | | 3-phase 380 - 400 - 415V 50Hz | | | | | | | | | | | | | | | | | | | | |
| Cooling Capacity (nominal) | *1 | | kW | 12.5 | | 14.0 | | 15.5 | | 12.5 | | 14.0 | | 15.5 | | 22.4 | | 28.0 | | 33.5 | | | | | | | | | |
| | Power Input | | kW | 2.79 | | 3.46 | | 4.52 | | 2.79 | | 3.46 | | 4.52 | | 6.05 | | 8.21 | | 10.12 | | | | | | | | | |
| | Current Input | | A | 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 | | 13.35 - 12.68 - 12.22 | | 16.36 - 15.54 - 14.98 | | | | | | | | | |
| | EER | | kW/kW | 4.48 | | 4.05 | | 3.43 | | 4.48 | | 4.05 | | 3.43 | | 3.70 | | 3.41 | | 3.31 | | | | | | | | | |
| Temp. Range of Cooling | 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 | | 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 | | -5.0 - 52.0°C | | -5.0 - 52.0°C | | | | | | | | | |
| Heating Capacity (nominal) | *2 | | kW | 14.0 | | 16.0 | | 18.0 | | 14.0 | | 16.0 | | 18.0 | | 25.0 | | 31.5 | | 37.5 | | | | | | | | | |
| | Power Input | | kW | 3.04 | | 3.74 | | 4.47 | | 3.04 | | 3.74 | | 4.47 | | 5.84 | | 7.41 | | 9.12 | | | | | | | | | |
| | 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 | | 12.11 - 11.51 - 11.09 | | 14.74 - 14.01 - 13.50 | | | | | | | | | |
| | COP | | kW/kW | 4.61 | | 4.28 | | 4.03 | | 4.61 | | 4.28 | | 4.03 | | 4.28 | | 4.25 | | 4.11 | | | | | | | | | |
| Temp. Range of Heating | 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 | | 15.0 - 27.0°C | | 15.0 - 27.0°C | | | | | | | | | |
| | 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 | | -20.0 - 15.0°C | | -20.0 - 15.0°C | | | | | | | | | |
| Indoor Unit Connectable | Total Capacity | | | 50 to 130% of outdoor unit capacity | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Model / Quantity | | | City Multi*8 | 10 - 140 / 9 | 10 - 140 / 10 | 10 - 140 / 12 | 10 - 140 / 9 | 10 - 140 / 10 | 10 - 140 / 12 | 10 - 200 / 12 | 10 - 250 / 30 | 10 - 250 / 30 | | | | | | | | | | | | | | | | |
| | | | | Branch Box*5 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 50 / 12 | 15 - 50 / 12 | | | | | | | | | | | | | | | | |
| | Mixed System | Branch Box 1 unit | City Multi | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 200 / 5 | 10 - 250 / 25 | 10 - 250 / 25 | | | | | | | | | | | | | | | | | |
| | | | Branch Box | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 50 / 5 | 15 - 50 / 5 | | | | | | | | | | | | | | | | | | |
| | | | 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 - 250 / 23 | 10 - 250 / 23 | | | | | | | | | | | | | | | | | | |
| | | | 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 - 50 / 10 | 15 - 50 / 10 | | | | | | | | | | | | | | | | | | |
| City Multi | | | - | - | - | - | - | - | 10 - 250 / 22 | 10 - 250 / 22 | | | | | | | | | | | | | | | | | | | |
| | | | Branch Box | - | - | - | - | - | - | 15 - 50 / 12 | 15 - 50 / 12 | | | | | | | | | | | | | | | | | | |
| Sound Pressure Level (measured in anechoic room) | | | dB <A> | 49 / 51 | 50 / 52 | 51 / 53 | 49 / 51 | 50 / 52 | 51 / 53 | 56 / 61 | 55 / 61 | 57 / 62 | | | | | | | | | | | | | | | | | |
| Refrigerant Piping Diameter | Liquid Pipe | | mm | 9.52 Flare | | | | | | | | | | | | 9.52*6 Flare | | 9.52*7 Flare | | 12.7 Flare | | | | | | | | | |
| | Gas Pipe | | mm | 15.88 Flare | | | | | | | | | | | | 19.1 Flare | | 22.4 Flare | | 25.4 Flare | | | | | | | | | |
| Fan | Type x Quantity | | | Propeller Fan x 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Air Flow Rate | | m³/min | 110 | | | | | | | | | | | | 139 | | 165 / 183 | | 165 / 183 | | | | | | | | | |
| | | | L/s | 1,883 | | | | | | | | | | | | 2,316 | | 2,750 / 3,050 | | 2,750 / 3,050 | | | | | | | | | |
| | | | cfm | 3,884 | | | | | | | | | | | | 4,908 | | 5,826 / 6,462 | | 5,826 / 6,462 | | | | | | | | | |
| Compressor | Motor Output | | | kW | 0.074 + 0.074 | | | | | | | | | | | | 0.20 + 0.20 | | 0.375 x 2 | | 0.375 x 2 | | | | | | | | |
| | Type x Quantity | | | Scroll hermetic compressor x 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Starting Method | | | Inverter | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Motor Output | | | kW | 2.9 | 3.5 | 3.9 | 2.9 | 3.5 | 3.9 | 5.3 | 5.7 | 6.9 | | | | | | | | | | | | | | | | |
| External Dimensions (H x W x D) | | | mm | 1,338 x 1,050 x 330 (+40) | | | | | | | | | | | | | | | | | 1,662 x 1,050 x 460 (+45) | | | | | | | | |
| Weight | | | kg | 123 | | | | | | | | | | | | 125 | | 141 | | 196 (198) | | 196 (198) | | | | | | | |

*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-P10/15/20/25/32VLM, PKFY-P15/20/25VBM, PFFY-P20/25/32VKM and PFFY-P20/25/32VCM, 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.

*7 Liquid pipe diameter: 12.7mm, when further piping length is longer than 90m, and when PEFY-P200 or P250 is connected.

*8 It is possible to connect 1 Fresh Air type indoor unit to 1 outdoor unit. (1:1 system)

| Model | | | PUMY-P112YKME4(-BS) | PUMY-P125YKME4(-BS) | PUMY-P140YKME4(-BS) | |
|---------------------------------|--|--------------------|-------------------------------------|---------------------|---------------------|---------------|
| Power Source | | | 3-phase 380 - 400 - 415V 50Hz | | | |
| Cooling Capacity (nominal) | Power Input | *1 kW | 12.5 | 14.0 | 15.5 | |
| | | kW | 2.79 | 3.46 | 4.52 | |
| | | Current Input A | 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 | |
| Temp. Range of Cooling | Indoor Temp. | W.B. | 15 to 24°C | | | |
| | Outdoor Temp.*3 | D.B. | -5 to 52°C | | | |
| Heating Capacity (nominal) | Power Input | *2 kW | 14.0 | 16.0 | 18.0 | |
| | | 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 | |
| | | COP kW/kW | 4.61 | 4.28 | 4.03 | |
| Temp. Range of Heating | Indoor Temp. | D.B. | 15 to 27°C | | | |
| | Outdoor Temp. | W.B. | -20 to 15°C | | | |
| Indoor Unit Connectable | Total Capacity | | 50 to 130% of outdoor unit capacity | | | |
| | Model / Quantity | | City Multi*6 | 10 - 140 / 9 | 10 - 140 / 10 | 10 - 140 / 12 |
| | | | Branch Box*5 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 |
| | Mixed System | Branch Box 1 unit | City Multi | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 |
| | | Branch Box | Branch Box | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 |
| | | Branch Box 2 units | City Multi | 10 - 140 / 3 or 2*4 | 10 - 140 / 3 | 10 - 140 / 3 |
| | | Branch Box | Branch Box | 15 - 100 / 7 or 8*4 | 15 - 100 / 8 | 15 - 100 / 8 |
| | Sound Pressure Level (measured in anechoic room) | | dB <A> | 49 / 51 | 50 / 52 | 51 / 53 |
| Refrigerant Piping Diameter | Liquid Pipe | mm | 9.52 Flare | | | |
| | Gas Pipe | mm | 15.88 Flare | | | |
| Fan | Type x Quantity | | Propeller Fan x 2 | | | |
| | Air Flow Rate | m³/min | 110 | | | |
| | | L/s | 1,833 | | | |
| | | cfm | 3,884 | | | |
| | Motor Output | | kW | 0.074 + 0.074 | | |
| Compressor | Type x Quantity | | Scroll hermetic compressor x 1 | | | |
| | Starting Method | | Inverter | | | |
| | Motor Output | kW | 2.9 | 3.5 | 3.9 | |
| External Dimensions (H x W x D) | | mm | 1,338×1,050×330 (+40) | | | |
| Weight | | 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 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 It is possible to connect 1 Fresh Air type indoor unit to 1 outdoor unit. (1:1 system)

| Type | | Branch Box | |
|------------------------------------|----------------------|--|------------|
| Model Name | | PAC-MK54BC | PAC-MK34BC |
| Connectable Number of Indoor 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 | |
| Running Current | | A | |
| Dimensions | | mm | |
| Weight | | kg | |
| Piping Connection (Flare) | Branch [Indoor Side] | Liquid | mm |
| | | Gas | mm |
| | Main [Outdoor Side] | Liquid | mm |
| | | Gas | mm |

* 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.)

Indoor Unit Compatibility Table

■ MXZ Series R32

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

| Indoor Unit | | | Outdoor Unit | | | | Inverter Models | | | | | | | | | | | | Heat pump type | | | |
|----------------|-----------------------|--------------------------|--------------------------------|--------------------------------|-----------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|----------------|--|--|--|
| | | | MXZ- ¹ 3 2F33VF3 | MXZ- ¹ 3 2F42VF3 | MXZ- ¹ 3 2F53VF(H)3 | MXZ- ¹ 3 2F53VFHZ | MXZ- ¹ 3 3F54VF3 | MXZ- ¹ 3 3F68VF3 | MXZ- ¹ 3 4F72VF3 | MXZ- ¹ 3 4F80VF3 | MXZ- ¹ 3 4F83VF | MXZ- ¹ 3 4F83VFHZ | MXZ- ¹ 3 5F102VF | MXZ- ¹ 3 6F122VF | MXZ- ¹ 3 2HA40VF | MXZ- ¹ 3 2HA50VF | MXZ- ¹ 3 3HA50VF | | | | | |
| M series | Wall-Mounted | MSZ-RW25VG | ● | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| | | MSZ-RW35VG | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | | MSZ-RW50VG | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| | | 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(K) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| | | MSZ-AP20VG(K) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| | | 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(K) | | | | | | | | | | | | | ● | ● | ● | | | | | | |
| | MSZ-HR35VF(K) | | | | | | | | | | | | | ● | ● | ● | | | | | | |
| | MSZ-HR42VF(K) | | | | | | | | | | | | | | ● | ● | | | | | | |
| | MSZ-HR50VF(K) | | | | | | | | | | | | | | | ● | | | | | | |
| MSZ-HR60VF(K) | | | | | | | | | | | | | | | | | | | | | | |
| MSZ-HR71VF(K) | | | | | | | | | | | | | | | | | | | | | | |
| MSZ-DW25VF | | | | | | | | | | | | | ● | ● | ● | | | | | | | |
| MSZ-DW35VF | | | | | | | | | | | | | ● | ● | ● | | | | | | | |
| MSZ-DW50VF | | | | | | | | | | | | | | | | | | | | | | |
| Floor-Standing | MFZ-KT25VG | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | MFZ-KT35VG | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | MFZ-KT50VG | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | 1-way Cassette | MLZ-KP25VF | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | MLZ-KP35VF | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| MLZ-KP50VF | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| S series | 2x2 Cassette | SLZ-M15FA2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | | SLZ-M25FA2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | | SLZ-M35FA2 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | | SLZ-M50FA2 | | | | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | Ceiling- Concealed | SEZ-M25DA2 ² | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | | SEZ-M25DAL2 ² | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | | SEZ-M35DA2 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | | SEZ-M35DAL2 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | | SEZ-M50DA2 | | | | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | | SEZ-M50DAL2 | | | | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | | SEZ-M60DA2 | | | | | | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | | SEZ-M60DAL2 | | | | | | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| | | SEZ-M71DA2 | | | | | | | | ● | ● | ● | ● | | | | | | | | | |
| SEZ-M71DAL2 | | | | | | | | ● | ● | ● | ● | | | | | | | | | | | |
| P series | Ceiling- Suspended | PCA-M50KA2 | | | | | ● | ● | ● | ● | | | | | | | | | | | | |
| | | PCA-M60KA2 | | | | | | ● | ● | ● | | | | | | | | | | | | |
| | | PCA-M71KA2 | | | | | | | | | | | | | | | | | | | | |
| | Ceiling- Concealed | PEAD-M50JA2 | | | | | ● ^{*1} | ● ^{*1} | ● ^{*1} | ● ^{*1} | | | | | | | | | | | | |
| | | PEAD-M50JAL2 | | | | | ● ^{*1} | ● ^{*1} | ● ^{*1} | ● ^{*1} | | | | | | | | | | | | |
| | | PEAD-M60JA2 | | | | | | | | | | | | | | | | | | | | |
| | | PEAD-M60JAL2 | | | | | | | | | | | | | | | | | | | | |
| PEAD-M71JA2 | | | | | | | | | | | | | | | | | | | | | | |
| PEAD-M71JAL2 | | | | | | | | | | | | | | | | | | | | | | |

*1 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.

| Indoor Unit | | | Outdoor Unit | Inverter Models | | | | | | | | | | Heat pump type | | |
|----------------|--------------------------|--------------------------|------------------------------|-------------------------------|----------------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|--|
| | | | MXZ- ^{*3} 2D33VA | MXZ- ^{*3} 2D42VA2 | MXZ- ^{*3} 2D53VA(H)2 | MXZ- ^{*3} 2E53VAHZ | MXZ- ^{*3} 3E54VA | MXZ- ^{*3} 3E68VA | MXZ- ^{*3} 4E72VA | MXZ- ^{*3} 4E83VA | MXZ- ^{*3} 4E83VAHZ | MXZ- ^{*3} 5E102VA | MXZ- ^{*3} 6D122VA2 | MXZ- ^{*3} 2DM40VA | MXZ- ^{*3} 3DM50VA | |
| M series | Wall-Mounted | MSZ-LN18VG(W)(V)(R)(B) | | | | | | | | | | | | | | |
| | | 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 | | | | | | | | | | | | | ● | |
| | Floor-Standing | MFZ-KJ25VE2 | ● ^{*4*5} | ● ^{*4} | ● ^{*4} | ● | ● ^{*4} | ● ^{*4} | ● | ● | ● | ● | ● | | | |
| | | MFZ-KJ35VE2 | | ● ^{*4} | ● ^{*4} | ● | ● ^{*4} | ● ^{*4} | ● | ● | ● | ● | ● | | | |
| | | MFZ-KJ50VE2 | | | | | ● ^{*4} | ● ^{*4} | ● | ● | ● | ● | ● | | | |
| | | MLZ-KP25VF | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MLZ-KP35VF | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| 1-way Cassette | MLZ-KP50VF | | | | | ● | ● | ● | ● | ● | ● | ● | | | | |
| | SLZ-M15FA | | | | | | | | | | | | | | | |
| | SLZ-M25FA | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| | SLZ-M35FA | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| | SLZ-M50FA | | | | | ● | ● | ● | ● | ● | ● | ● | | | | |
| | SEZ-M25DA ^{*2} | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| | SEZ-M25DAL ^{*2} | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| | SEZ-M35DA | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| | SEZ-M35DAL | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| | SEZ-M50DA | | | | | ● | ● | ● | ● | ● | ● | ● | | | | |
| | SEZ-M50DAL | | | | | ● | ● | ● | ● | ● | ● | ● | | | | |
| | SEZ-M60DA | | | | | ● | ● | ● | ● | ● | ● | ● | | | | |
| | SEZ-M60DAL | | | | | ● | ● | ● | ● | ● | ● | ● | | | | |
| | SEZ-M71DA | | | | | | | ● | ● | ● | ● | ● | | | | |
| SEZ-M71DAL | | | | | | | ● | ● | ● | ● | ● | | | | | |
| S series | 2x2 Cassette | PLA-M50EA | | | | | ● | ● | ● | ● | ● | ● | ● | | | |
| | | PLA-M60EA | | | | | | ● | ● | ● | ● ^{*6} | ● | ● | | | |
| | | PLA-M71EA | | | | | | | ● | ● | ● ^{*6} | ● | ● | | | |
| | Ceiling-Suspended | PCA-M50KA | | | | | ● | ● | ● | ● | ● ^{*6} | ● | ● | | | |
| | | PCA-M60KA | | | | | | ● | ● | ● | ● ^{*6} | ● | ● | | | |
| | | PCA-M71KA | | | | | | | ● | ● | ● ^{*6} | ● | ● | | | |
| | Ceiling-Concealed | PEAD-M50JA | | | | | ● ^{*1} | ● ^{*1} | ● ^{*1} | ● ^{*1} | ● ^{*1*6} | ● ^{*1} | ● ^{*1} | | | |
| | | PEAD-M50JAL | | | | | ● ^{*1} | ● ^{*1} | ● ^{*1} | ● ^{*1} | ● ^{*1*6} | ● ^{*1} | ● ^{*1} | | | |
| | | PEAD-M60JA | | | | | | | | ● ^{*1} | ● ^{*1*6} | ● ^{*1} | ● ^{*1} | | | |
| | | PEAD-M60JAL | | | | | | | | ● ^{*1} | ● ^{*1*6} | ● ^{*1} | ● ^{*1} | | | |
| | | PEAD-M71JA | | | | | | | | ● ^{*1} | ● ^{*1*6} | ● ^{*1} | ● ^{*1} | | | |
| | | PEAD-M71JAL | | | | | | | | ● ^{*1} | ● ^{*1*6} | ● ^{*1} | ● ^{*1} | | | |

^{*1} Maximum total current of indoor units: 3A or less.

^{*2} SEZ-KD25 cannot be connected with MXZ-2D(E)/3E/4E/5E 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.

^{*4} When connecting the MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please refer to page 106.

^{*5} Regarding MXZ-2D33, the second unit should be a different type in the case of selecting one MFZ-KJ.

^{*6} P series cannot be connected with MXZ-4E83VAHZ when ampere limit adjustment function is operated.

^{*7} Connectable outdoor unit are MXZ-2D33VA-E4, MXZ-2D42VA2-E4, MXZ-2D53VA2-E4, MXZ-2E53VAHZ-E2, MXZ-3E54VA-E2, MXZ-3E68VA-E2, MXZ-4E72VA-E2, MXZ-4E83VA-E4, MXZ-4E83VAHZ-E3, MXZ-5E102VA-E4.

■ PUMY-SP Series

Branch Box Connection Compatibility Table

| Series | Type | Model Name | Capacity | | | | | | | | | | |
|----------|-------------------|--------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 15 | 18 | 20 | 22 | 25 | 35 | 42 | 50 | 60 | 71 | 100 |
| M series | Wall-Mounted | MSZ-LN•VG2 | | | | | ● | ● | | ● | | | |
| | | MSZ-AP•VG(K) | ●*1 | | ●*1 | | ●*1 | ●*1 | ●*1 | ●*1 | | | |
| | | MSZ-FH•VE2 | | | | | ● | ● | | ● | | | |
| | | MSZ-EF•VG(K) | | ●*1 | | ●*1 | ●*1 | ●*1 | ●*1 | ●*1 | | | |
| | | MSZ-SF•VA | ● | | ● | | | | | | | | |
| | | MSZ-SF•VE3 | | | | | ● | ● | ● | ● | | | |
| | | MSZ-GF•VE2 | | | | | | | | | ● | ● | |
| S series | Floor-Standing | MFZ-KT•VG | | | | | ●*1 | ●*1 | | ●*1 | | | |
| | 1-way Cassette | MLZ-KP•VF | | | | | ●*1 | ●*1 | | ●*1 | | | |
| | 2x2 Cassette | SLZ-M•FA | ●*1 | | | | ●*1 | ●*1 | | ●*1 | ●*1 | ●*1 | |
| P series | Ceiling-Concealed | SEZ-M•DA(L) | | | | | ●*1 | ●*1 | | ●*1 | ●*1 | ●*1 | |
| | 4-way Cassette | PLA-M•EA | | | | | | ●*1 | | ●*1 | ●*1 | ●*1 | ●*1 |
| | Ceiling-Concealed | PEAD-M•JA(L) | | | | | | | | ●*1 | ●*1 | ●*1 | ●*1 |

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

LEV Kit Connection Compatibility Table

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

*1 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 | Capacity | | | | | | | | | | | | | |
|-------------------|-------------------|--------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | | | P10 | P15 | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 |
| CITY MULTI series | 1-way cassette | PMFY-P•VBM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | 2-way cassette | PLFY-P•VLMD-E | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | |
| | 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 | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | PEFY-P•VMA3-E*1 | | | | ● | ● | ● | | | | | | | | |
| | | PEFY-P•VMHS-E | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | PEFY-P•VMHS-E-F *4 | | | | | | | | | | | | ● | | |
| | 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 *2 | | GUF-50/100RD(H)4 | | | | | | | | | | | | | |

*1 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 | Type | Model Name | Capacity | | | | | | | | | | |
|----------|-------------------|--------------|----------|----|-----|----|----|----|----|----|----|----|-----|
| | | | 15 | 18 | 20 | 22 | 25 | 35 | 42 | 50 | 60 | 71 | 100 |
| M series | Wall-Mounted | MSZ-LN•VG2 | | | | | ● | ● | | ● | | | |
| | | MSZ-AP•VG(K) | ●*1 | | ●*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) | | | | | ● | ● | | ● | ● | ● | |
| | 2x2 Cassette | SLZ-M•FA | ● | | | | ● | ● | | ● | ● | ● | |
| P series | Ceiling-Suspended | PCA-M•KA | | | | | | ● | | ● | ● | ● | ● |
| | 4-way Cassette | PLA-M•EA | | | | | | ● | | ● | ● | ● | ● |
| | Ceiling-Concealed | PEAD-M•JA(L) | | | | | | | | ● | ● | ● | ● |

*1 MSZ-AP15/20VGK are not connectable.

LEV Kit Connection Compatibility Table

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

*1 MSZ-AP15/20VGK are not connectable.

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

| Series | Type | Model Name | Capacity | | | | | | | | | | | | | |
|-------------------|-------------------|------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | | | P10 | P15 | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 |
| CITY MULTI series | 1-way cassette | PMFY-P•VBM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | 2-way cassette | PLFY-P•VLM-D-E | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | |
| | 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-50/100RD(H)4 | | | | | | | | | | | | | |

CITY MULTI Indoor Unit Compatibility Table for PUMY-P200

| Series | Type | Model Name | Capacity | | | | | | | | | | | | | |
|-------------------|-------------------|------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | | | P10 | P15 | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 |
| CITY MULTI series | 1-way cassette | PMFY-P•VBM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | 2-way cassette | PLFY-P•VLM-D-E | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | |
| | 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 | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | Lossnay *3 | | GUF-50/100RD(H)4 | | | | | | | | | | | | | |

*1 Authorized connectable indoor units are as follows;

PUMY-P112: PEFY-P25×2+P32×2, PUMY-P125: PEFY-P32×4, PUMY-P140: PEFY-P32×3+P40×1, PUMY-P200YKM2: PEFY-P40×2+P63×2

*2 Note that connection is not allowed inside EU countries and UK.

PWFY can not connect to PUMY-P200YKM2.

*3 Do not connect Lossnay remote controller(s). (PZ-61DR-E, PZ-60DR-E, PZ-52SF-E, PZ-43SMF-E)

*4 PUMY-P112/125/140: PEFY-EP can not connect more than 3 units

PUMY-P200: Authorized connectable indoor units are only as follows; PLFY-EP63VEM-E×3.

■ PUMY-P250/300 Series

Branch Box/LEV Kit Connection Compatibility Table

| Series | I/U Type | Model Name | Capacity | | | | | | | |
|----------|----------------|--------------|----------|----|----|----|----|----|----|----|
| | | | 15 | 18 | 20 | 22 | 25 | 35 | 42 | 50 |
| M series | Wall-Mounted | MSZ-LN•VG2 | | | | | ● | ● | | ● |
| | | MSZ-AP•VG(K) | ● | | ● | | ● | ● | ● | |
| | | MSZ-FH•VE2 | | | | | ● | ● | | ● |
| | | MSZ-EF•VG(K) | | ● | | ● | ● | ● | ● | |
| | Floor-Standing | MFZ-KT•VG | | | | | ● | ● | | ● |

CUTY MULTI Indoor Unit Compatibility Table

| Series | Type | Model Name | Capacity | | | | | | | | | | | | | | |
|-------------------|-------------------|------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| | | | P10 | P15 | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 | P250 |
| CITY MULTI series | 1-way cassette | PMFY-P•VBM-E | | | ● | ● | ● | ● | | | | | | | | | |
| | 2-way cassette | PLFY-P•VLMD-E | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | | |
| | 4-way cassette | PLFY-M•VEM-E | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | | |
| | | PLFY-EP•VEM-E *1 | | | | | | | ● | ● | | | | | | | |
| | | 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 *2 | | | | | | | | ● | ● | ● | | | | | |
| | | 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 *3 | | GUF-50/100RD(H)4 | | | | | | | | | | | | | | |

*1 Authorized connectable indoor units are as follows;

PUMY-P250 : PLFY-EP63VEM-E × 4, PUMY-P300 : PLFY-EP50VEM-E × 1 + PLFY-EP63VEM-E × 4

*2 Authorized connectable indoor units are as follows;

PUMY-P250 : PEFY-P63VMA3-E × 4, PUMY-P300 : PEFY-P80VMA3-E × 1 + PEFY-P71VMA3-E × 3

*3 Do not connect Lossnay remote controller(s). (PZ-61DR-E, PZ-60DR-E, PZ-52SF-E, PZ-43SMF-E)

POWERFUL HEATING

SERIES



SELECTION

Choose the series that best matches the building layout.

MSZ-LN VGHZ, MSZ-FH/MFZ-KJ VEHZ SERIES

The line-up includes outdoor models 25–50

Outdoor Unit



MUZ-LN25/35VGHZ2
MUZ-FT25VGHZ
MUZ-FH25/35VEHZ



MUZ-FT35/50VGHZ



MUFZ-KW25/35VGHZ



MUZ-LN50VGHZ2
MUZ-FH50VEHZ
MUFZ-KW50/60VGHZ

Indoor Unit

Wall-mounted



MSZ-RW25/35/50VG



MSZ-FT25/35/50VG

Floor-standing



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



MSZ-FH25/35/50VE2

* R410A is for PUMY connection.

ZUBADAN

ZUBADAN SERIES

The line-up includes outdoor unit models 112-140 class and three types of indoor units.

Outdoor Unit



PUHZ-SHW112VHA
PUHZ-SHW112/140YHA

Indoor Unit

4-way cassette



PLA Series

Ceiling-concealed



PEAD Series

Wall-mounted



PKA Series

MXZ-VAHZ/VFHZ SERIES

Outdoor Unit



MXZ-2F53VFHZ



MXZ-4F83VFHZ



MXZ-2E53VAHZ



MXZ-4E83VAHZ

MSZ-RW SERIES

R32 R410A
Single / MXZ, PUMY PUMY

As a flagship model, RW series realises further outstanding heating performances under extremely cold outdoor temperature even with high energy efficiency. Moreover, excellent air purifying functions and many other smart features deliver a great comfort to you.



MSZ-RW25/35/50VG



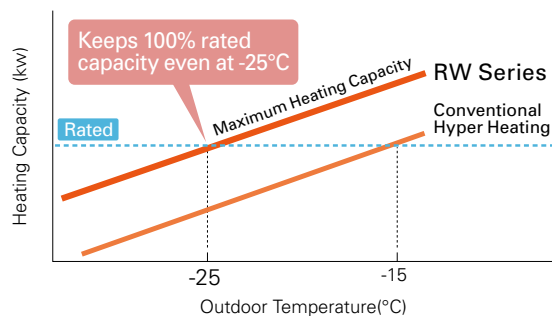
Heating Performance

Excellent heating performance of RW series delivers the prime warmth into your room. RW series' powerful compressor realises remarkable maximum heating capacity in low ambient temperature with a high energy efficiency. Also, RW series performs 100% rated capacity even at -25°C, and the operation is guaranteed down to -30°C for all classes (25/35/50).

High Energy Efficiency

| | | |
|------|------|----------|
| RW25 | A+++ | SCOP 5.2 |
| RW35 | A+++ | SCOP 5.1 |
| RW50 | A++ | SCOP 4.6 |

Improved Heating Capacity

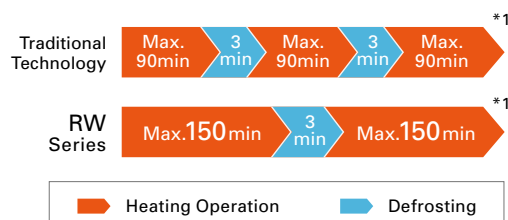


Wider Heating Operation Range



Longer Continuous Heating Operation

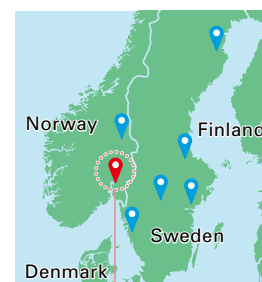
RW series with a high frost-detecting technology, made it possible to provide maximum continuous heating operation as long as 150 minutes with less frequent defrosting operations, maintaining a comfortable indoor environment in a long term.



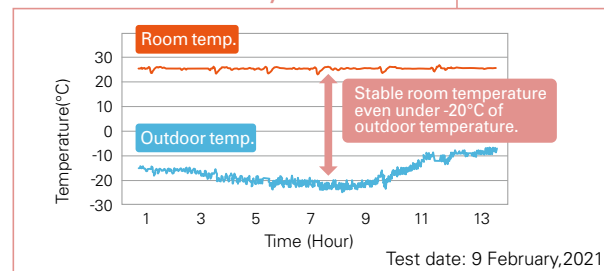
*1 The time for heating and defrosting operation depends on the environmental conditions.

Tested in Sweden and Norway

We have conducted field tests in several cold sites and received high user satisfactions with sufficient air volume and remarkable heating performance of RW series. As the test result shows, we confirmed that RW series provides stable indoor comfortability even in extremely low ambient temperature.



Test result in Norway



3D i-see Sensor

3D i-see sensor with the sophisticated hemispherical design measures the temperature of the room with an infrared sensor and detects the position of people, which allows you to choose your preferable airflow such as indirect and direct airflow.



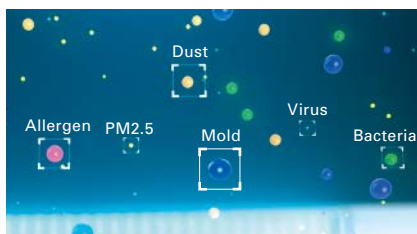
Circulator Mode

In heating mode, after reaching the setting temperature, indoor unit automatically starts FAN mode to circulate the air and eliminate temperature unevenness in your room.



Plasma Quad Plus

Plasma Quad Plus is a plasma-based filtering system which contributes to a better air quality in your room. Plasma Quad Plus applies a voltage of approximately 6,000 volts to the electrode to generate plasma, effectively removing various kinds of airborne particles such as viruses, bacteria, mold, allergen, dust, and PM2.5.



*Images are for illustration purposes.

Virus (Airborne)

99% inhibited^{*1}

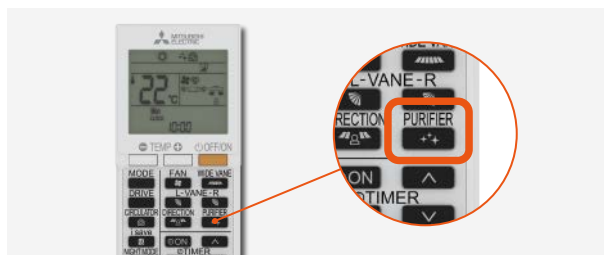
^{*1} Tested Organization: vrc. Center, SMC Test Report No: 28-002 Test Method: JEM1467 Test result: Neutralised 99% of Influenza A virus in 72 minutes in a 25m³ test space.

^{*2} Tested Organization: Japan Textile Products Quality and Technology Center, Test Report No: 20KB070569, Tested Materials: SARS-CoV-2, Test Method: Original (The test was conducted on the Plasma Quad device alone, not designed to evaluate product performance.) Test Result: Inhibited 99.8% in 360 minutes. The result without the effect of natural attenuation is 96.3%.

We have confirmed Plasma Quad Plus inhibits 99.8% of adhered COVID-19. ^{*2}

Quick Air Purifying Set

If you press "PURIFIER" button when the unit is turned off, Plasma Quad Plus starts to operate with a fan mode and purifies the air in your room.



Deodorising Filter

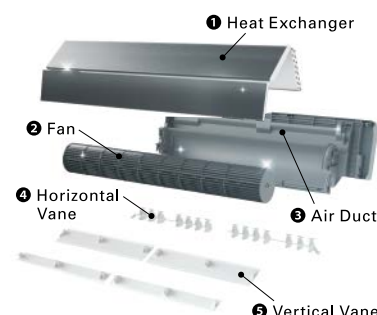
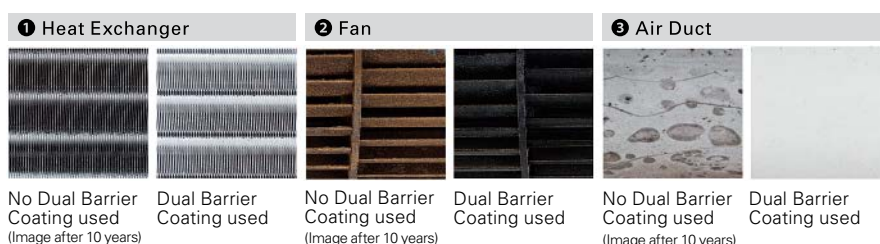
The catalyst in Deodorising Filter denatures the odorous components and destroys them from the source of the odour, quickly delivering fresh air to your room.



Dual Barrier Coating

SIAA ^{*1}
Anti Fungus
JP0512075X0001C
(Fan, Air duct)

Mitsubishi Electric's Dual Barrier Coating prevents dust and greasy dirt from accumulating on the inner surface of the indoor unit; keeping your air conditioner clean. Blended "fluorine particles" prevent hydrophilic dirt penetration, and "hydrophobic particles" prevent hydrophobic dirt from getting into the air conditioner.



Dual Barrier Material

SIAA ^{*2}
Anti Fungus
JP0512075X0001C
(Horizontal Vane, Vertical Vane)

Dual Barrier Material performs the same antifouling effect as Dual Barrier Coating, and it is kneaded into horizontal vane and vertical vane material which are hard to apply coating to. Combined with Dual Barrier Coating, the whole air passage of indoor unit is kept clean all year round.



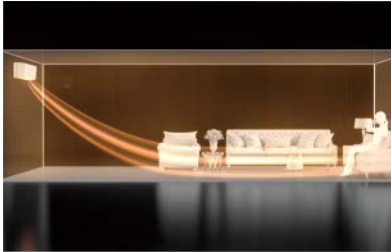
^{*1} ^{*2} Verified by SIAA test method (JIS Z 2911) with No. JP0501014A00020 on SIAA antifungal agent positive list. Antifungal effect depends on the working environment. Fungicides comply with the SIAA safety criteria. What is SIAA? https://www.kohkin.net/en_index/en_siaa.html

Drive Mode Selector

Drive Mode Selector allows you to select a preferred control setting according to your residential environment from three modes, Wide Room mode, Quiet mode, and Eco mode.

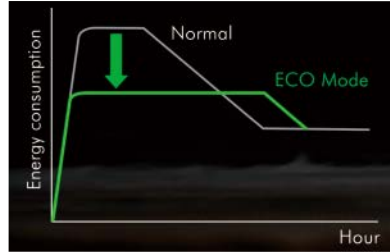
Wide Room Mode

Provides a better air distribution in your room and raises the comfort level.



Eco Mode

Suppresses a sharp increase in energy consumption by a gradual start-up operation.



Quiet Mode

Lowers operation noise level, creating a quieter and peaceful environment.



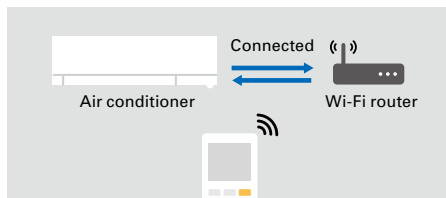
Built-in Wi-Fi & App Control

Indoor unit is equipped with Wi-Fi interface which allows you to access MELCloud app, providing you with a flexible control of air conditioner on your smartphone, tablets, and PC.



Easy Wi-Fi Set Up

You can easily connect Wi-Fi adaptor in the indoor unit and your local router with just a simple operation of remote controller.



Remote Controller with Backlight

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



Back Plate with a Hole

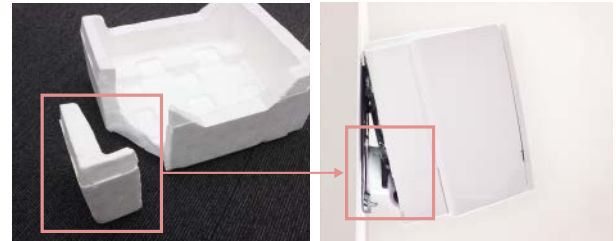
With a hole as default in the center of the back plate, the piping can be easily taken out from the back. The edge of the hole is reinforced to ensure the strength.



The edge of the hole is reinforced to ensure the strength.

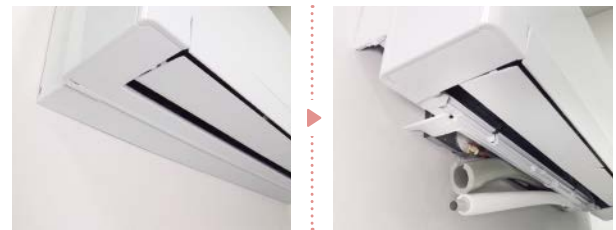
Spacer

A part of the packing material can be used as a spacer to lift indoor unit during the left-side piping work, which makes stable installation work possible.



Bottom Removable Structure

The corner box and the bottom panel are individually removable, and it makes easy to insert tools even in the case of left-side piping.



Easy Plugging/Unplugging of Drain Hose

One-touch structure with screw-free claw fixing. Easy to plug and unplug the drain hose when changing on the left and right.

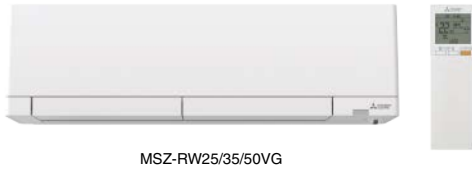


MSZ-RW SERIES



Indoor Unit / Remote Controller

<White>



MSZ-RW25/35/50VG

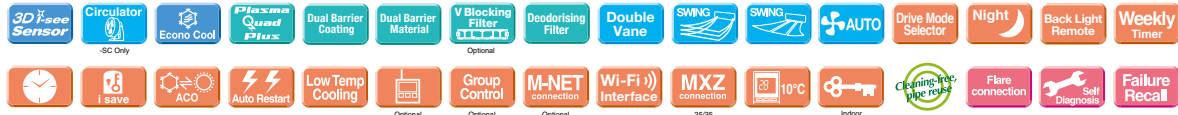
Outdoor Unit



MUZ-RW25/35VGHZ



MUZ-RW50VGHZ



| Type | | | Inverter Heat Pump | | | | | | | |
|---|---|---------------------------------|----------------------|-------------------------------|-----------------|-------------------------------|-----------------|---------------------------------|-----------------|-----------|
| Indoor Unit | | | MSZ-RW25VG | | MSZ-RW35VG | | MSZ-RW50VG | | | |
| Outdoor Unit | | | MUZ-RW25VGHZ | | MUZ-RW35VGHZ | | MUZ-RW50VGHZ | | | |
| Refrigerant | | | R32 ^(*)1) | | | | | | | |
| Power Supply | Source | | Outdoor Power supply | | | | | | | |
| | Outdoor (V/Phase/Hz) | | 230/Single/50 | | | | | | | |
| Cooling | Design Load | | kW | 2.5 | | 3.5 | | 5.0 | | |
| | Annual Electricity Consumption ^(*)2) | | kWh/a | 78 | | 130 | | 230 | | |
| | SEER ^(*)4) | | | 11.2 | | 9.4 | | 7.6 | | |
| | Energy Efficiency Class | | | A+++ | | A+++ | | A++ | | |
| | Capacity | Rated | kW | 2.5 | | 3.5 | | 5.0 | | |
| | | Min - Max | kW | 0.9 - 3.5 | | 1.0 - 4.0 | | 1.4 - 5.8 | | |
| | Total Input | | Rated | kW | 0.435 | | 0.770 | | 1.380 | |
| | Heating (Average Season) ^(*)5) | Design Load | | kW | 3.2 | | 4.0 | | 6.0 | |
| Declared Capacity | | at reference design temperature | kW | 3.2 (−10°C) | | 4.0 (−10°C) | | 6.0 (−10°C) | | |
| | | at bivalent temperature | kW | 3.2 (−10°C) | | 4.0 (−10°C) | | 6.0 (−10°C) | | |
| | | at operation limit temperature | kW | 2.6 (−25°C) | | 2.6 (−25°C) | | 4.0 (−25°C) | | |
| Back Up Heating Capacity | | kW | 0.0 | | 0.0 | | 0.0 | | | |
| Annual Electricity Consumption ^(*)2) | | kWh/a | 856 | | 1097 | | 1800 | | | |
| SCOP ^(*)4) | | | 5.2 | | 5.1 | | 4.6 | | | |
| Energy Efficiency Class | | | A+++ | | A+++ | | A++ | | | |
| Capacity | | Rated | kW | 3.2 | | 4.0 | | 6.0 | | |
| | | Min - Max | kW | 0.8 - 6.3 | | 1.1 - 7.0 | | 1.8 - 8.7 | | |
| Total Input | | Rated | kW | 0.580 | | 0.810 | | 1.450 | | |
| Operating Current (max) | | | A | 9.8 | | 11.2 | | 15.2 | | |
| Indoor Unit | Input | | Rated | kW | 0.021 | | 0.022 | | 0.041 | |
| | Operating Current (max) | | A | 0.21 | | 0.22 | | 0.37 | | |
| | Dimensions | | H × W × D | mm | 305 - 998 - 247 | | 305 - 998 - 247 | | 305 - 998 - 247 | |
| | Weight | | kg | 14.5 | | 14.5 | | 14.5 | | |
| | Air Volume (SLo-Lo-Mid-Hi-SHi ^(*)3)) | Cooling | m³/min | 5.1 - 6.5 - 9.0 - 11.5 - 13.7 | | 5.1 - 6.9 - 9.0 - 11.5 - 14.1 | | 7.8 - 9.5 - 11.1 - 13.1 - 16.2 | | |
| | | Heating | m³/min | 5.1 - 7.8 - 9.5 - 11.7 - 14.1 | | 5.1 - 7.8 - 9.5 - 11.7 - 14.5 | | 7.8 - 10.7 - 12.5 - 14.7 - 18.2 | | |
| | Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi ^(*)3)) | Cooling | dB(A) | 19 - 23 - 29 - 36 - 42 | | 19 - 24 - 29 - 36 - 43 | | 26 - 30 - 34 - 39 - 45 | | |
| | | Heating | dB(A) | 19 - 25 - 30 - 36 - 41 | | 19 - 25 - 30 - 36 - 42 | | 25 - 32 - 37 - 41 - 46 | | |
| | Sound Level (PWL) | | dB(A) | 58 | | 59 | | 59 | | |
| Outdoor Unit | Dimensions | | H × W × D | mm | 714 - 800 - 285 | | 714 - 800 - 285 | | 880 - 840 - 330 | |
| | Weight | | kg | 39.5 | | 40 | | 54 | | |
| | Air Volume | Cooling | m³/min | 35.1 | | 37.8 | | 49.3 | | |
| | | Heating | m³/min | 37.8 | | 37.8 | | 55.6 | | |
| | 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 (max) | | A | 9.6 | | 11.0 | | 14.8 | | |
| | Breaker Size | | A | 10 | | 12 | | 16 | | |
| | Ext. Piping | Diameter | | Liquid / Gas | mm | 6.35/9.52 | | 6.35/9.52 | | 6.35/9.52 |
| Max. Length | | Out-In | m | 20 | | 20 | | 30 | | |
| Max. Height | | Out-In | m | 12 | | 12 | | 15 | | |
| Guaranteed Operating Range [Outdoor] | | Cooling | °C | −10 ~ +46 | | −10 ~ +46 | | −10 ~ +46 | | |
| | | Heating | °C | −30 ~ +24 | | −30 ~ +24 | | −30 ~ +24 | | |

(*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 675. 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) 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 53-55 for heating (warmer season) specifications.

LN VGHZ SERIES

R32 Single / MXZ, PUMY
R410A PUMY

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.



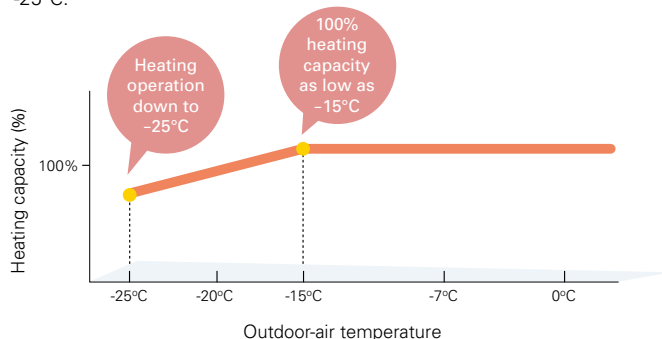
MSZ-LN25/35/50VG2(W)(V)(R)(B)



Powerful Core for powerful heating

Unparalleled Heating Performance

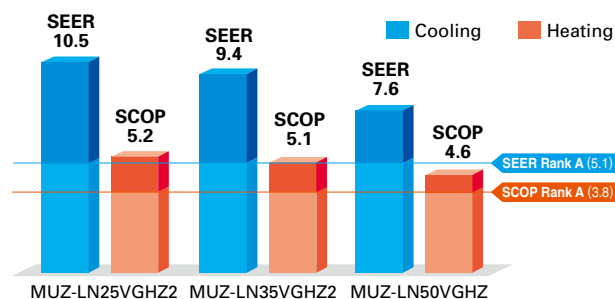
LN Series outdoor units are equipped with a high-output compressor that provides enhanced heating performance under low outdoor temperatures. The heating operation range is extended down to -25°C.



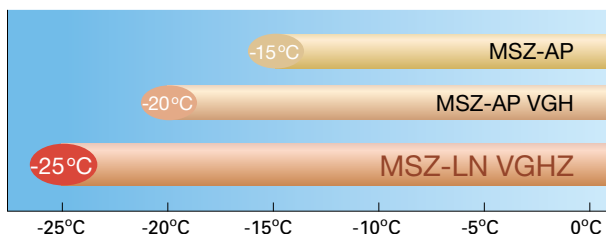
High Energy Efficiency – Energy Rank of A+ or higher for All Models

DC Inverter

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.



Operating Range



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

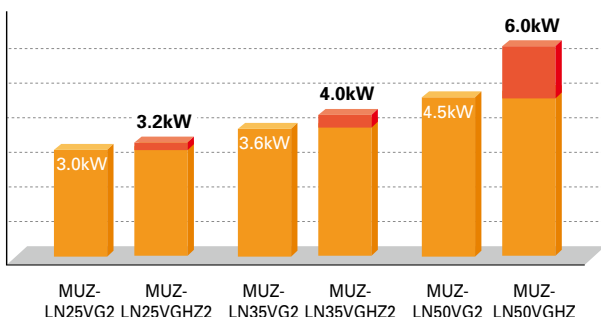


Without Freeze-prevention heater



With Freeze-prevention heater

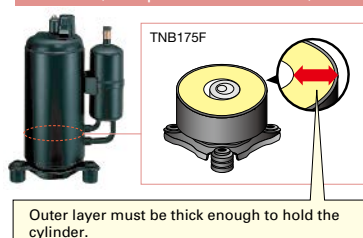
Declared Capacity (at reference design temperature)



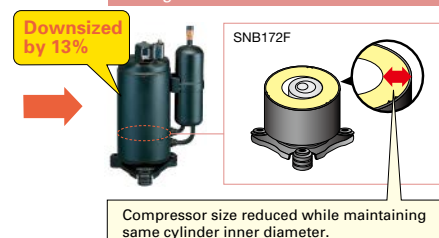
Compact, Powerful Compressor

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.

Compressor fixed using conventional method (Arc spot-welded method)



Compressor fixed using Heat Caulking Fixing Method



MSZ-LN VGHZ SERIES



Indoor Unit / Remote Controller



<Pearl White>



MSZ-LN25/35/50VG2V

<Ruby Red>



MSZ-LN25/35/50VG2R

<Natural White>



MSZ-LN25/35/50VG2W

<Onyx Black>



MSZ-LN25/35/50VG2B

Outdoor Unit



MUZ-LN25/35VGHZ2



MUZ-LN50VGHZ



| Type | | | Inverter Heat Pump | | | | | | | |
|---|---|---------------------------------|-------------------------|------------------------------|-------------------------|------------------------------|-------------------------|-------------------------------|-----------------|-----------------|
| Indoor Unit | | | MSZ-LN25VG2(W)(V)(R)(B) | | MSZ-LN35VG2(W)(V)(R)(B) | | MSZ-LN50VG2(W)(V)(R)(B) | | | |
| Outdoor Unit | | | MUZ-LN25VGHZ2 | | MUZ-LN35VGHZ2 | | MUZ-LN50VGHZ | | | |
| Refrigerant | | | R32 ^(*)1) | | | | | | | |
| Power Supply | Source | | Outdoor Power supply | | | | | | | |
| | Outdoor (V/Phase/Hz) | | 230/Single/50 | | | | | | | |
| Cooling | Design Load | | kW | 2.5 | | 3.5 | | 5.0 | | |
| | Annual Electricity Consumption ^(*)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 - Max | kW | 0.8 - 3.5 | | 0.8 - 4.0 | | 1.4 - 5.8 | | |
| | Total Input | | Rated | kW | 0.485 | | 0.820 | | 1.380 | |
| | Heating (Average Season) ^(*)5) | Design Load | | kW | 3.2 (−10°C) | | 4.0 (−10°C) | | 6.0 (−10°C) | |
| Declared Capacity | | at reference design temperature | kW | 3.2 (−10°C) | | 4.0 (−10°C) | | 6.0 (−10°C) | | |
| | | at bivalent temperature | kW | 3.2 (−10°C) | | 4.0 (−10°C) | | 6.0 (−10°C) | | |
| | | at operation limit temperature | kW | 2.3 (−25°C) | | 3.1 (−25°C) | | 4.7 (−25°C) | | |
| | | Back Up Heating Capacity | kW | 0.0 (−10°C) | | 0.0 (−10°C) | | 0.0 (−10°C) | | |
| Annual Electricity Consumption ^(*)2) | | 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 - Max | kW | 0.8 - 6.3 | | 0.9 - 6.6 | | 1.8 - 8.7 | | |
| Total Input | | Rated | kW | 0.600 | | 0.820 | | 1.480 | | |
| Operating Current (max) | | | A | 9.9 | | 10.5 | | 15.2 | | |
| Indoor Unit | Input | | Rated | kW | 0.027 | | 0.027 | | 0.034 | |
| | Operating Current (max) | | A | 0.3 | | 0.3 | | 0.4 | | |
| | Dimensions | | H × W × D | mm | 307 - 890 - 233 | | 307 - 890 - 233 | | 307 - 890 - 233 | |
| | Weight | | kg | 15.5 | | 15.5 | | 15.5 | | |
| | Air Volume (SLO-Lo-Mid-Hi-SHi ^(*)3)) | 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 | | |
| | | 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 | | |
| | Sound Level (SPL) (SLO-Lo-Mid-Hi-SHi ^(*)3)) | 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 | | |
| | Sound Level (PWL) | | dB(A) | 58 | | 58 | | 60 | | |
| | Outdoor Unit | Dimensions | | H × W × D | mm | 550 - 800 - 285 | | 550 - 800 - 285 | | 580 - 840 - 330 |
| Weight | | 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 | | |
| Sound Level (PWL) | | Cooling | dB(A) | 60 | | 61 | | 64 | | |
| Operating Current (max) | | A | 9.6 | | 10.2 | | 14.8 | | | |
| Breaker Size | | A | 10 | | 12 | | 16 | | | |
| Ext. Piping | | Diameter | Liquid / Gas | mm | 6.35/9.52 | | 6.35/9.52 | | 6.35/9.52 | |
| | Max. Length | Out-In | m | 20 | | 20 | | 30 | | |
| | Max. Height | Out-In | m | 12 | | 12 | | 15 | | |
| Guaranteed Operating Range (Outdoor) | | Cooling | °C | −10 ~ +46 | | −10 ~ +46 | | −10 ~ +46 | | |
| | | Heating | °C | −25 ~ +24 | | −25 ~ +24 | | −25 ~ +24 | | |

(*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 value of 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) 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 53-55 for heating (warmer season/colder season) specifications.

FT VGHZ ^{R32} Single / Multi 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.

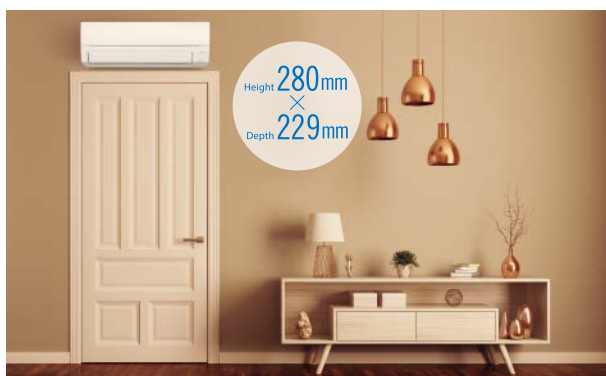


MSZ-FT25/35/50VG(K)



Compact Design

The FT series features its compact design with 280mm height and 229mm depth, which is suitable for the installation above the door.

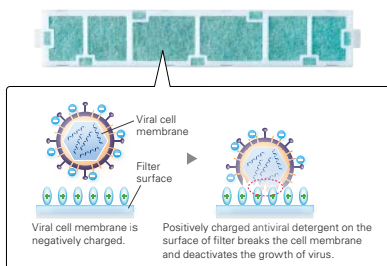


V Blocking Filter (Optional)

V Blocking Filter

V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen.

Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



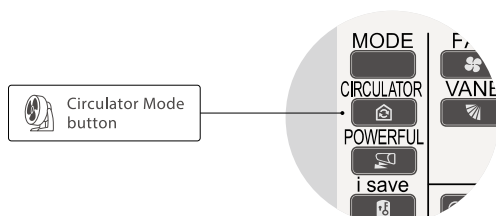
Remote Controller with Backlight

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 "fan-only" state and mixes warm air in the room.



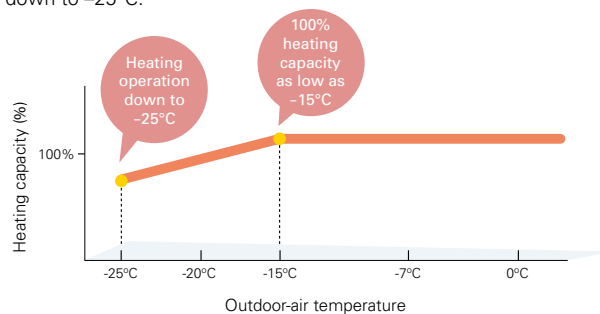
Built-in Wi-Fi

(MSZ-FT25/35/50VGK)

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

Hyper Heating

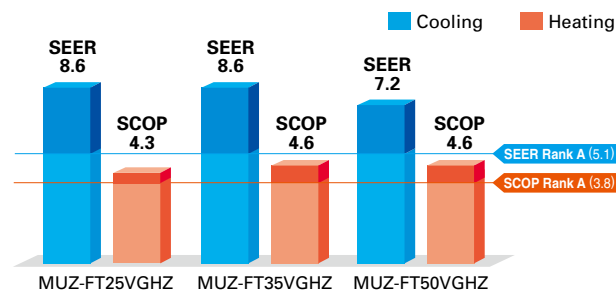
Mitsubishi Electric's powerful compressor and highly cold-resistant parts enable the heat pump to provide 100% or more heating capacity even at -15°C , and also the heating operation is guaranteed down to -25°C .



High Energy Efficiency – Energy Rank of A⁺ or higher for All Models

DC Inverter

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)

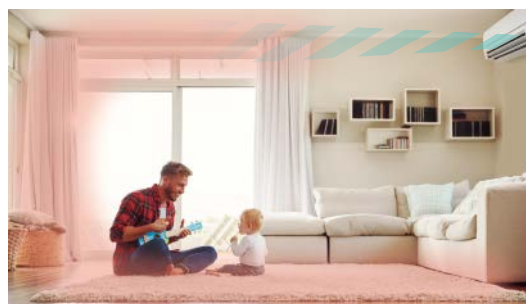


Image is for illustration purposes.

MSZ-FT SERIES



Indoor Unit



MSZ-FT25/35/50VG(K)

Outdoor Unit



MUZ-FT25VGHZ



MUZ-FT35/50VGHZ

Remote Controller



| Type | | | Inverter Heat Pump | | | | | | |
|--------------------------------------|--|-------|---------------------------------|-------------|-------------------------------|-----------------|--------------------------------|--------------------------------|-------------|
| Indoor Unit | | | MSZ-FT25VG(K) | | MSZ-FT35VG(K) | MSZ-FT50VG(K) | | | |
| Outdoor Unit | | | MUZ-FT25VGHZ | | MUZ-FT35VGHZ | MUZ-FT50VGHZ | | | |
| Refrigerant | | | R32 (*1) | | | | | | |
| Power Supply | Source | | Outdoor power supply | | | | | | |
| | Outdoor (V/Phase/Hz) | | 230 / Single / 50 | | | | | | |
| Cooling | Design Load | | kW | 2.5 | | 3.5 | 5.0 | | |
| | Annual Electricity Consumption (*2) | | kWh/a | 101 | | 142 | 243 | | |
| | SEER (*4) | | | 8.6 | | 8.6 | 7.2 | | |
| | Capacity | | Energy Efficiency Class | | A+++ | | A++ | | |
| | | | Rated | kW | 2.5 | | 3.5 | 5.0 | |
| | | | Min - Max | kW | 0.8 - 3.5 | | 0.8 - 4.0 | 0.8 - 5.2 | |
| | Total Input | | Rated | kW | 0.580 | | 0.910 | 1.630 | |
| Heating (Average Season) (*5) | Design Load | | kW | 3.2 (-10°C) | | 4.0 (-10°C) | 5.0 (-10°C) | | |
| | Declared Capacity | | at reference design temperature | | kW | | 3.2 (-10°C) | 4.0 (-10°C) | 5.0 (-10°C) |
| | | | at bivalent temperature | | kW | | 3.2 (-10°C) | 4.0 (-10°C) | 5.0 (-10°C) |
| | | | at operation limit temperature | | kW | | 3.0 (-25°C) | 3.4 (-25°C) | 3.6 (-25°C) |
| | Back Up Heating Capacity | | kW | 0.0 (-10°C) | | 0.0 (-10°C) | 0.0 (-10°C) | | |
| | Annual Electricity Consumption (*2) | | kWh/a | 973 | | 1216 | 1625 | | |
| | SCOP (*4) | | | 4.6 | | 4.6 | 4.3 | | |
| | Capacity | | Energy Efficiency Class | | A++ | | A++ | A+ | |
| | | | Rated | kW | 3.2 | | 4.0 | 5.0 | |
| | | | Min - Max | kW | 0.9 - 6.2 | | 0.9 - 6.6 | 0.9 - 7.8 | |
| Total Input | | Rated | kW | 0.760 | | 1.020 | 1.300 | | |
| Operating Current (max) | | | A | 10.0 | | 11.6 | 13.9 | | |
| Indoor Unit | Input | | Rated | kW | 0.039 | | 0.04 | 0.047 | |
| | Operating Current (max) | | A | | | 0.4 | | | |
| | Dimensions | | H × W × D | mm | | 280 - 838 - 229 | | | |
| | Weight | | kg | | | 10 | | | |
| | Air Volume (SLo-Lo-Mid-Hi-SHi) (*3) | | Cooling | m³/min | 3.9 - 5.9 - 8.2 - 10.4 - 12.3 | | 3.9 - 6.1 - 8.3 - 10.7 - 13.1 | 5.5 - 7.6 - 9.8 - 12.0 - 13.1 | |
| | | | Heating | m³/min | 3.9 - 6.3 - 9.0 - 12.0 - 13.2 | | 3.9 - 6.9 - 10.2 - 13.5 - 14.7 | 5.5 - 8.4 - 11.4 - 14.4 - 15.5 | |
| | Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi) (*3) | | Cooling | dB(A) | 19 - 27 - 36 - 41 - 46 | | 19 - 27 - 36 - 42 - 47 | 28 - 34 - 40 - 45 - 48 | |
| | | | Heating | dB(A) | 19 - 31 - 39 - 46 - 49 | | 19 - 33 - 42 - 49 - 52 | 28 - 36 - 45 - 51 - 54 | |
| | Sound Level (PWL) | | dB(A) | | | 60 | | | |
| Outdoor Unit | Dimensions | | H × W × D | mm | | 550 - 800 - 285 | | 714 - 800 - 285 | |
| | Weight | | kg | | | 34 | | 40 | |
| | Air Volume | | Cooling | m³/min | 30.4 | | 40.2 | 40.2 | |
| | | | Heating | m³/min | 30.4 | | 40.2 | 40.2 | |
| | Sound Level (SPL) | | Cooling | dB(A) | 46 | | 49 | 51 | |
| | | | Heating | dB(A) | 49 | | 52 | 54 | |
| | Sound Level (PWL) | | Cooling | dB(A) | 60 | | 61 | 64 | |
| | Operating Current (max) | | A | 9.6 | | 11.2 | 13.5 | | |
| | Breaker Size | | A | 12 | | 12 | 16 | | |
| Ext. Piping | Diameter | | Liquid / Gas | mm | | 6.35 / 9.52 | | 6.35 / 9.52 | |
| | Max. Length | | Out-In | m | | 20 | | 30 | |
| | Max. Height | | Out-In | m | | 12 | | 15 | |
| Guaranteed Operating Range (Outdoor) | | | Cooling | °C | | -10 ~ +46 | | -10 ~ +46 | |
| | | | Heating | °C | | -25 ~ +24 | | -25 ~ +24 | |

(*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 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. 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 53-55 for heating (warmer season) specifications.

FH VEHZ ^{R410A} Single / Multi 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.

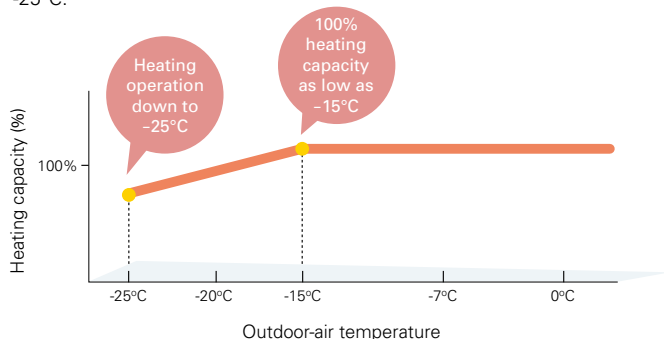


MSZ-FH25/35/50VE2

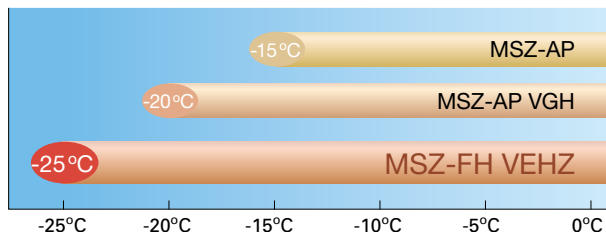


Unparalleled Heating Performance

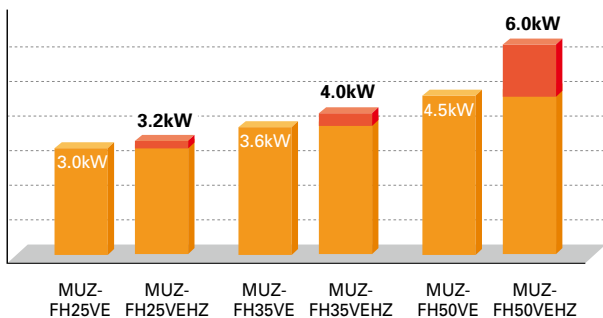
FH Series outdoor units are equipped with a high-output compressor that provides enhanced heating performance under low outdoor temperatures. The heating operation range is extended down to -25°C.



Operating Range



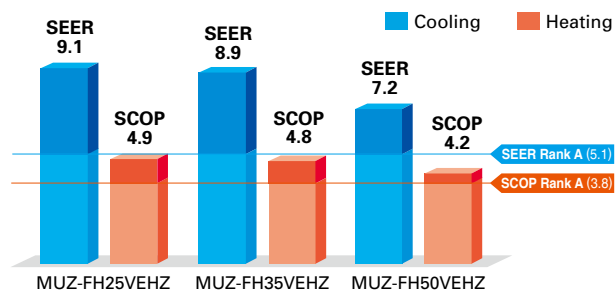
Declared Capacity (at reference design temperature)



High Energy Efficiency – Energy Rank of A+ 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

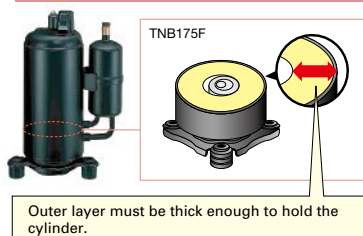


With Freeze-prevention heater

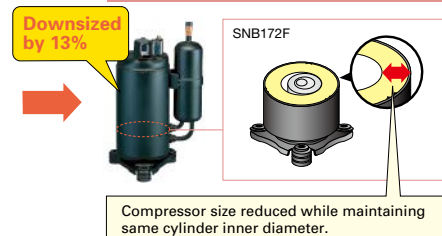
Compact, Powerful Compressor

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.

Compressor fixed using conventional method (Arc spot-welded method)



Compressor fixed using Heat Caulking Fixing Method



MSZ-FH VEHZ SERIES



Indoor Unit



MSZ-FH25/35/50VE2

Outdoor Unit



MUZ-FH25/35VEHZ



MUZ-FH50VEHZ

Remote Controller



| Type | | | Inverter Heat Pump | | | |
|--------------------------------------|---|---------------------------------|----------------------|-------------------------------------|-------------------------------------|-------------------------------|
| Indoor Unit | | | MSZ-FH25VE2 | MSZ-FH35VE2 | MSZ-FH50VE2 | |
| Outdoor Unit | | | MUZ-FH25VEHZ | MUZ-FH35VEHZ | MUZ-FH50VEHZ | |
| Refrigerant | | | R410A (*1) | | | |
| Power Supply | Source | | Outdoor power supply | | | |
| | Outdoor (V/Phase/Hz) | | 230 / Single / 50 | | | |
| Cooling | Design Load | | kW | 2.5 | 3.5 | 5.0 |
| | Annual Electricity Consumption (*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 - Max | kW | 0.8 - 3.5 | 0.8 - 4.0 | 1.9 - 6.0 |
| | Total Input | Rated | kW | 0.485 | 0.820 | 1.380 |
| Heating (Average Season) (*5) | Design Load | | kW | 3.2 | 4.0 | 6.0 |
| | Declared Capacity | at reference design temperature | kW | 3.2 | 4.0 | 6.0 |
| | | at bivalent temperature | kW | 3.2 | 4.0 | 6.0 |
| | | at operation limit temperature | kW | 1.7 | 2.6 | 3.8 |
| | Back Up Heating Capacity | | kW | 0.0 | 0.0 | 0.0 |
| | Annual Electricity Consumption (*2) | | kWh/a | 924 | 1173 | 2006 |
| | SCOP (*4) | | | 4.9 | 4.8 | 4.2 |
| | | Energy Efficiency Class | | A++ | A++ | A+ |
| | Capacity | Rated | kW | 3.2 | 4.0 | 6.0 |
| | | Min - Max | kW | 1.0 - 6.3 | 1.0 - 6.6 | 1.7 - 8.7 |
| | Total Input | Rated | kW | 0.580 | 0.800 | 1.480 |
| | Operating Current (max) | | | A | 9.6 | 10.5 |
| Indoor Unit | Input | Rated | kW | 0.029 | 0.029 | 0.031 |
| | Operating Current (max) | | A | 0.4 | 0.4 | 0.4 |
| | Dimensions | | H x W x D | mm 305 (+17) - 925 - 234 | | |
| | Weight | | kg | 13.5 | 13.5 | 13.5 |
| | Air Volume (SLo-Lo-Mid-Hi-SHi) (*23) | 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 |
| | | 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) (SLo-Lo-Mid-Hi-SHi) (*23) | Cooling | dB(A) | 20 - 23 - 29 - 36 - 42 | 21 - 24 - 29 - 36 - 42 | 27 - 31 - 35 - 39 - 44 |
| | | 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 |
| | Outdoor Unit | Dimensions | | H x W x D | mm 550 - 800 - 285 | |
| 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 (max) | | A | 9.2 | 10.1 | 13.6 | |
| Breaker Size | | A | 10 | 12 | 16 | |
| Ext. Piping | Diameter | Liquid / Gas | mm | 6.35 / 9.52 | 6.35 / 9.52 | 6.35 / 12.7 |
| | Max. Length | Out-In | m | 20 | 20 | 30 |
| | Max. Height | Out-In | m | 12 | 12 | 15 |
| Guaranteed Operating Range [Outdoor] | | Cooling | °C | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 |
| | | Heating | °C | -25 ~ +24 | -25 ~ +24 | -25 ~ +24 |

(*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 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.

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 53-55 for heating (warmer season) specifications.

MFZ-KW SERIES



Indoor Unit



MFZ-KW25/35/50/60VG



Outdoor Unit



MUFZ-KW25/35VGHZ



MUFZ-KW50/60VGHZ

Remote Controller



| Type | | | Inverter Heat Pump | | | | |
|--|--|---------------------------------|----------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| Indoor Unit | | | MFZ-KW25VG | MFZ-KW35VG | MFZ-KW50VG | MFZ-KW60VG | |
| Outdoor Unit | | | MUFZ-KW25VGHZ | MUFZ-KW35VGHZ | MUFZ-KW50VGHZ | MUFZ-KW60VGHZ | |
| Refrigerant | | | R32 ^(※1) | | | | |
| Power Supply | Source | | Outdoor power supply | | | | |
| | Outdoor (V/Phase/Hz) | | 230 / Single / 50 | | | | |
| Cooling | Design Load | kW | 2.5 | 3.5 | 5.0 | 6.1 | |
| | Annual Electricity Consumption ^(※2) | kWh/a | 103 | 151 | 255 | 316 | |
| | SEER ^(※4) | | 8.5 | 8.1 | 6.8 | 6.7 | |
| | Capacity | Energy Efficiency Class | | A+++ | A++ | A++ | A++ |
| | | Rated | kW | 2.5 | 3.5 | 5.0 | 6.1 |
| | Min - Max | kW | 0.7 - 3.6 | 0.7 - 4.3 | 1.0 - 5.8 | 1.0 - 6.5 | |
| | Total Input | Rated | kW | 0.57 | 0.90 | 1.36 | 1.73 |
| | Heating (Average Season) | Design Load | kW | 3.5 | 3.6 | 4.5 | 4.8 |
| Declared Capacity | | at reference design temperature | kW | 3.5 (−10°C) | 3.6 (−10°C) | 4.5 (−10°C) | 4.8 (−10°C) |
| | | at bivalent temperature | kW | 3.5 (−10°C) | 3.6 (−10°C) | 4.5 (−10°C) | 4.8 (−10°C) |
| | | at operation limit temperature | kW | 2.6 (−25°C) | 2.6 (−25°C) | 4.0 (−25°C) | 4.0 (−25°C) |
| Back Up Heating Capacity | | kW | 0.0 (−10°C) | 0.0 (−10°C) | 0.0 (−10°C) | 0.0 (−10°C) | |
| Annual Electricity Consumption ^(※2) | | kWh/a | 1188 | 1211 | 1500 | 1624 | |
| SCOP ^(※4) | | | 4.1 | 4.1 | 4.2 | 4.1 | |
| Capacity | | Energy Efficiency Class | | A+ | A+ | A+ | A+ |
| | | Rated | kW | 3.4 | 4.3 | 6.0 | 6.5 |
| Min - Max | | kW | 0.2 - 5.1 | 0.2 - 6.0 | 1.2 - 8.4 | 1.2 - 9.0 | |
| Total Input | | Rated | kW | 0.83 | 1.21 | 1.60 | 1.88 |
| Operating Current (max) | | A | 9.9 | 10.3 | 15.3 | 15.4 | |
| Indoor Unit | | Input (Cooling/Heating) | Rated | kW | 0.019/0.025 | 0.019/0.025 | 0.026/0.052 |
| | Operating Current (max) | A | 0.22 | 0.22 | 0.47 | 0.55 | |
| | Dimensions | H × W × D | mm | 600 - 750 - 215 | | | |
| | Weight | kg | 15 | 15 | 15 | 15 | |
| | Air Volume (SLo-Lo-Mid-Hi-SHi ^(※3)) | 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 | 5.6 - 8.0 - 9.6 - 12.3 - 15.0 |
| | | Heating | m³/min | 3.5 - 5.1 - 6.2 - 7.7 - 9.7 | 3.5 - 5.1 - 6.2 - 7.7 - 9.7 | 6.0 - 7.4 - 9.4 - 11.6 - 14.0 | 6.0 - 7.7 - 9.7 - 12.5 - 14.6 |
| | Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi ^(※3)) | Cooling | dB(A) | 20 - 25 - 30 - 35 - 39 | 20 - 25 - 30 - 35 - 39 | 27 - 31 - 35 - 39 - 44 | 27 - 35 - 39 - 46 - 53 |
| | | Heating | dB(A) | 18 - 25 - 30 - 35 - 41 | 18 - 25 - 30 - 35 - 41 | 29 - 35 - 40 - 45 - 50 | 29 - 35 - 41 - 47 - 51 |
| | Sound Level (PWL) | dB(A) | 49 | 50 | 56 | 65 | |
| | Outdoor Unit | Dimensions | H × W × D | mm | 550 - 800 - 285 | | 880 - 840 - 330 |
| Weight | | kg | 35 | 35 | 54 | 54 | |
| Air Volume | | Cooling | m³/min | 32.7 | 32.7 | 43.8 | 48.8 |
| | | Heating | m³/min | 27.3 | 27.3 | 46.3 | 51.3 |
| Sound Level (SPL) | | Cooling | dB(A) | 47 | 47 | 50 | 52 |
| | | Heating | dB(A) | 46 | 47 | 54 | 56 |
| Sound Level (PWL) | | Cooling | dB(A) | 61 | 61 | 65 | 66 |
| Operating Current (max) | | A | 9.6 | 10.0 | 14.8 | 14.8 | |
| Breaker Size | | A | 10 | 12 | 16 | 16 | |
| Ext. Piping | Diameter | Liquid / Gas | mm | 6.35 / 9.52 | | 6.35 / 12.7 | |
| | Max. Length | Out-In | m | 20 | | 30 | |
| | Max. Height | Out-In | m | 12 | | 15 | |
| Guaranteed Operating Range [Outdoor] | | Cooling | °C | −10 ~ +46 | | −10 ~ +46 | |
| | | Heating | °C | −25 ~ +24 | | −25 ~ +24 | |

(*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 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

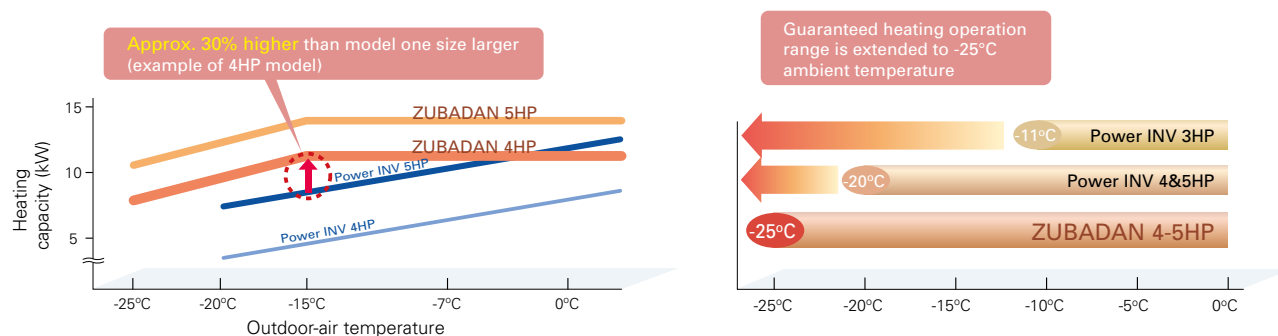
The ZUBADAN Series incorporates an original Flash Injection technology that improves the already high heating capacity of the system. This new member of the series line-up ensures comfortable heat pump-driven heating performance in cold regions.



* 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.

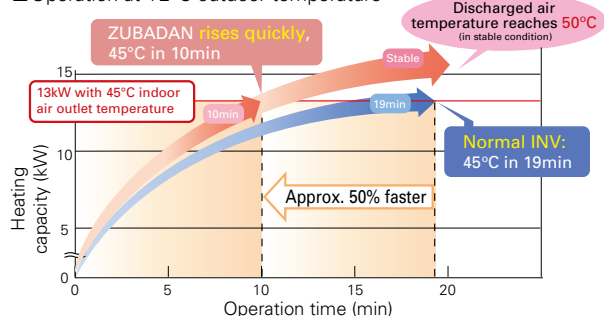


Enhanced Comfort

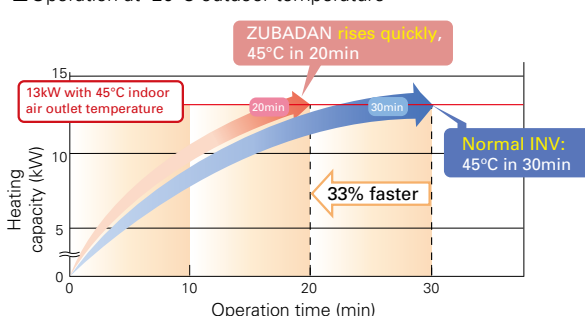
The Flash Injection circuit improves start-up and recover from the defrosting operation. A newly introduced defrost operation control also improves defrost frequency. These features enable the temperature to reach the set temperature more quickly, and contribute to maintaining it at the desired setting.

Quick Start-up

■ Operation at $+2^{\circ}\text{C}$ outdoor temperature



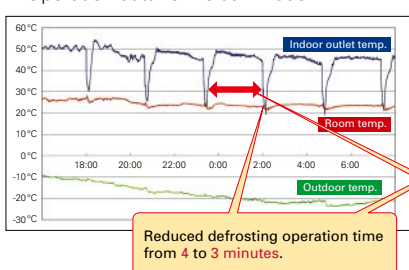
■ Operation at -20°C outdoor temperature



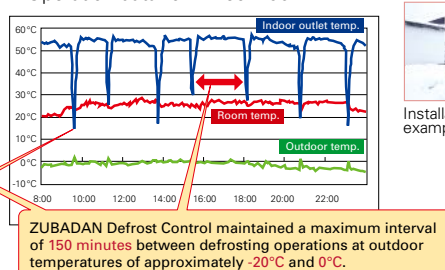
ZUBADAN Defrost Control and Faster Recovery from Defrost Operation

Field Test Results: Office building in Asahikawa, Hokkaido, Japan

■ Operation data for 25 Jan. 2005



■ Operation data for 2 Dec. 2004



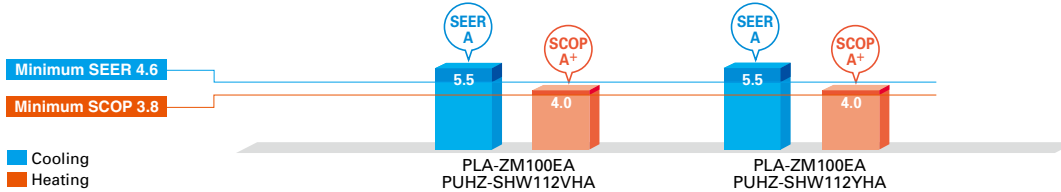
Installation example



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



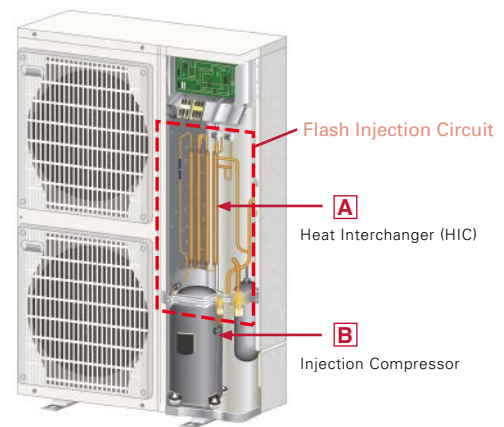
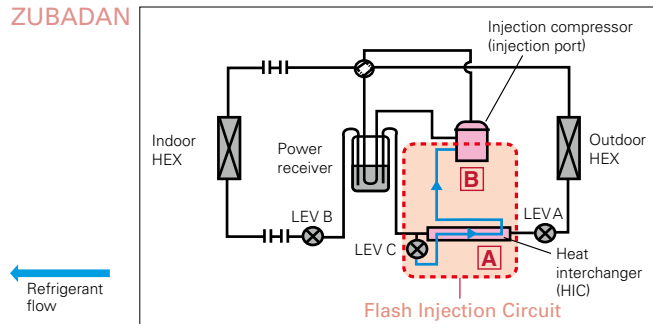
Powerful heating yet annually high energy efficiency in both cooling and heating, achieving rank A and A+.



Mitsubishi Electric's Flash Injection Technology The Key to High Heating Performance at Low Outdoor Temperatures

Flash Injection Circuit

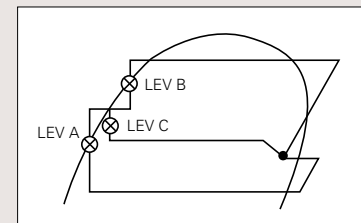
ZUBADAN



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.

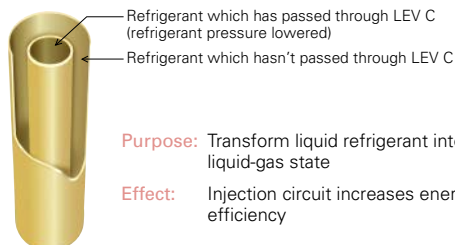
In traditional units, when the outdoor temperature is low, the volume of refrigerant circulating in the compressor decreases due to the drop in refrigerant pressure and the protection from overheating caused by high compression, thereby reducing heating capacity. The Flash Injection Circuit injects refrigerant to maintain the refrigerant circulation volume and compressor operation load, thereby maintaining heating capacity.

Mollier Chart Image Representing Flash Injection Circuit Operation



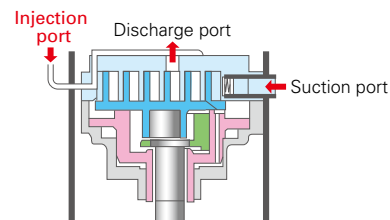
A Heat Interchanger (HIC)

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

Effect: 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-ZM100/125EA2

Panel

| Panel | With Signal Receiver | With 3D i-see Sensor | With Wireless Remote Controller | With Auto Elevation |
|-------------|----------------------|----------------------|---------------------------------|---------------------|
| PLP-6EA | | | | |
| PLP-6EAL | ✓ | | | |
| PLP-6EAE | | ✓ | | |
| PLP-6EAL | ✓ | ✓ | | |
| PLP-6EAJ | ✓ | | | ✓ |
| PLP-6EAJE | ✓ | ✓ | | ✓ |
| PLP-6EALM2 | ✓ | | ✓ | |
| PLP-6EALME2 | ✓ | ✓ | ✓ | |

Outdoor Unit

R410A



PUHZ-SHW112VHA(-BS)
PUHZ-SHW112/140YHA(-BS)

Remote Controller



Enclosed in
PLP-6EALM2/
PLP-6EALME2



*optional



*optional



*optional



| Type | | | | Inverter Heat Pump | | |
|--------------------------------------|-----------------------------------|---------------------------------|--------------|---|--------------------------|-------------------|
| Indoor Unit | | | | PLA-ZM100EA2 | | PLA-ZM125EA2 |
| Outdoor Unit | | | | PUHZ-SHW112VHA | PUHZ-SHW112YHA | PUHZ-SHW140YHA |
| Refrigerant | | | | R410A*1 | | |
| Power Supply | Source | | | Outdoor power supply | | |
| | Outdoor (V/Phase/Hz) | | | VHA: 230 / Single / 50, YHA: 400 / Three / 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 | 2.857 | 2.857 | 5.000 |
| | EER | | | 3.50 | 3.50 | 2.50 |
| | | EEL Rank | | — | — | — |
| | Design Load | | kW | 10.0 | 10.0 | — |
| | Annual Electricity Consumption *2 | | kWh/a | 633 | 633 | — |
| | SEER*4 | | | 5.5 | 5.5 | — |
| | Energy Efficiency Class | | | A | A | — |
| Heating (Average Season) | Capacity | Rated | kW | 11.2 | 11.2 | 14.0 |
| | | Min - Max | kW | 4.5 - 14.0 | 4.5 - 14.0 | 5.0 - 16.0 |
| | Total Input | Rated | kW | 2.667 | 2.667 | 4.000 |
| | COP | | | 4.20 | 4.20 | 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 | 1.5 | 1.5 | — |
| | Annual Electricity Consumption *2 | | kWh/a | 4420 | 4420 | — |
| | SCOP*4 | | | 4.0 | 4.0 | — |
| Energy Efficiency Class | | | A+ | A+ | — | |
| Operating Current (max) | | | A | 35.5 | 13.5 | 13.5 |
| Indoor Unit | Input [Cooling/Heating] | Rated | kW | 0.07 / 0.07 | 0.07 / 0.07 | 0.08 / 0.08 |
| | Operating Current (max) | | A | 0.47 | 0.47 | 0.52 |
| | Dimensions <Panel> | | H × W × D | mm | 298-840-840 <40-950-950> | |
| | Weight <Panel> | | 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) [Lo-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 |
| Outdoor Unit | Dimensions | H × W × D | mm | 1350 - 950 - 330 (+30) | | |
| | 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 (max) | | A | 35 | 13 | 13 |
| | Breaker Size | | A | 40 | 16 | 16 |
| | Ext. Piping | Diameter | Liquid / Gas | mm | 9.52 / 15.88 | 9.52 / 15.88 |
| Max. Length | | Out-In | m | 75 | 75 | 75 |
| Max. Height | | Out-In | m | 30 | 30 | 30 |
| Guaranteed Operating Range [Outdoor] | Cooling*3 | °C | −15 ~ +46 | −15 ~ +46 | −15 ~ +46 | |
| | Heating | °C | −25 ~ +21 | −25 ~ +21 | −25 ~ +21 | |

*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 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.

PLZ-SHW SERIES



Indoor Unit

R410A



PLA-M100/125EA2

Panel

| Panel | With Signal Receiver | With 3D i-see Sensor | With Wireless Remote Controller | With Auto Elevation |
|-------------|----------------------|----------------------|---------------------------------|---------------------|
| PLP-6EA | | | | |
| PLP-6EAL | ✓ | | | |
| PLP-6EAE | | ✓ | | |
| PLP-6EAL | ✓ | ✓ | | |
| PLP-6EAJ | ✓ | | | ✓ |
| PLP-6EAJE | ✓ | ✓ | | ✓ |
| PLP-6EALM2 | ✓ | | ✓ | |
| PLP-6EALME2 | ✓ | ✓ | ✓ | |

Outdoor Unit

R410A



PUHZ-SHW112VHA (-BS)
PUHZ-SHW112/140YHA (-BS)

Remote Controller



Enclosed in
PLP-6EALM2/
PLP-6EALME2



*optional



*optional



*optional



| Type | | | Inverter Heat Pump | | |
|--------------------------|--------------------------------------|---------------------------------|---|--------------------------|-------------------|
| Indoor Unit | | | PLA-M100EA2 | | PLA-M125EA2 |
| Outdoor Unit | | | PUHZ-SHW112VHA | PUHZ-SHW112YHA | PUHZ-SHW140YHA |
| Refrigerant | | | R410A*1 | | |
| Power Supply | Source | | Outdoor power supply | | |
| | Outdoor (V/Phase/Hz) | | VHA: 230 / Single / 50, YHA: 400 / Three / 50 | | |
| Cooling | Capacity | Rated | kW | 10.0 | 12.5 |
| | | Min - Max | kW | 4.9 - 11.4 | 5.5 - 14.0 |
| | Total Input | Rated | kW | 2.940 | 5.000 |
| | EER | | | 3.40 | 2.50 |
| | | EEL Rank | | - | - |
| | Design Load | | kW | 10.0 | 10.0 |
| | Annual Electricity Consumption*2 | | kWh/a | 661 | 661 |
| | SEER*4 | | | 5.3 | 5.3 |
| | | Energy Efficiency Class | | A | A |
| | | | | - | - |
| Heating (Average Season) | Capacity | Rated | kW | 11.2 | 14.0 |
| | | Min - Max | kW | 4.5 - 14.0 | 5.0 - 16.0 |
| | Total Input | Rated | kW | 2.793 | 4.000 |
| | COP | | | 4.01 | 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 | 1.5 | 1.5 |
| Operating Current (max) | Annual Electricity Consumption*2 | | kWh/a | 4445 | 4445 |
| | SCOP*4 | | | 4.0 | 4.0 |
| | | Energy Efficiency Class | | A+ | A+ |
| | | | | - | - |
| | | | A | 35.5 | 13.5 |
| | | | | 0.07 / 0.07 | 0.08 / 0.08 |
| | Operating Current (max) | | kW | 0.47 | 0.52 |
| | Dimensions <Panel> | H x W x D | mm | 298-840-840 <40-950-950> | 26 <5> |
| | Weight <Panel> | | kg | 26 <5> | 26 <5> |
| | Air Volume [Lo-Mi2-Mi1-Hi] | | m³/min | 19 - 22 - 25 - 28 | 21 - 24 - 26 - 29 |
| Indoor Unit | Sound Level (SPL) [Lo-Mi2-Mi1-Hi] | | dB(A) | 31 - 34 - 37 - 40 | 33 - 36 - 39 - 41 |
| | Sound Level (PWL) | | dB(A) | 61 | 62 |
| | Dimensions | H x W x D | mm | 1350 - 950 - 330 (+30) | |
| | Weight | | kg | 120 | 134 |
| | Air Volume | Cooling | m³/min | 100 | 100 |
| | | Heating | m³/min | 100 | 100 |
| | Sound Level (SPL) | Cooling | dB(A) | 51 | 51 |
| | | Heating | dB(A) | 52 | 52 |
| | Sound Level (PWL) | Cooling | dB(A) | 69 | 69 |
| | Operating Current (max) | | A | 35 | 13 |
| Outdoor Unit | Breaker Size | | A | 40 | 16 |
| | Diameter | Liquid / Gas | mm | 9.52 / 15.88 | 9.52 / 15.88 |
| | Max. Length | Out-In | m | 75 | 75 |
| | Max. Height | Out-In | m | 30 | 30 |
| | Guaranteed Operating Range [Outdoor] | Cooling*3 | °C | -15 ~ +46 | -15 ~ +46 |
| | | Heating | °C | -25 ~ +21 | -25 ~ +21 |
| | | | | -25 ~ +21 | -25 ~ +21 |
| | | | | -25 ~ +21 | -25 ~ +21 |
| | | | | -25 ~ +21 | -25 ~ +21 |
| | | | | -25 ~ +21 | -25 ~ +21 |

*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 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.

PEDZ-SHW JA SERIES



Indoor Unit

R32
R410A



PEAD-M100/125JA(L)2

Outdoor Unit

R410A



PUHZ-SHW112VHA(-BS)
PUHZ-SHW112/140YHA(-BS)

Remote Controller



*optional *optional *optional



*optional



*optional



| Type | | | Inverter Heat Pump | | | |
|--------------------------------------|--|---------------------------------|---|----------------------------------|----------------------------------|----------------------------------|
| Indoor Unit | | | PEAD-M100JA(L)2 | | PEAD-M125JA(L)2 | |
| Outdoor Unit | | | PUHZ-SHW112VHA | PUHZ-SHW112YHA | PUHZ-SHW140YHA | |
| Refrigerant | | | R410A* ¹ | | | |
| Power Supply | Source | | Outdoor power supply | | | |
| | Outdoor (V/Phase/Hz) | | VHA: 230 / Single / 50, YHA: 400 / Three / 50 | | | |
| Cooling | Capacity | Rated | kW | 10.0 | 10.0 | 12.1 |
| | | Min - Max | kW | 4.9 - 11.4 | 4.9 - 11.4 | 5.5 - 14.0 |
| | Total Input | Rated | kW | 2.904 | 2.904 | 4.172 |
| | EER | | | 3.44 | 3.44 | 2.90 |
| | | EEL Rank | | — | — | — |
| | Design Load | | kW | 10.0 | 10.0 | 12.1 |
| | Annual Electricity Consumption* ² | | kWh/a | 686 | 686 | — |
| | SEER* ⁴ | | | 5.1 | 5.1 | — |
| | | Energy Efficiency Class | | A | A | — |
| Heating (Average Season) | Capacity | Rated | kW | 11.2 | 11.2 | 14.0 |
| | | Min - Max | kW | 4.5 - 14.0 | 4.5 - 14.0 | 5.0 - 16.0 |
| | Total Input | Rated | kW | 3.103 | 3.103 | 3.879 |
| | COP | | | 3.61 | 3.61 | 3.61 |
| | | 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 | 9.4 (-25°C) | 9.4 (-25°C) | — |
| | Back Up Heating Capacity | | kW | 1.5 | 1.5 | — |
| | Annual Electricity Consumption* ² | | kWh/a | 4601 | 4601 | — |
| | SCOP* ⁴ | | | 3.8 | 3.8 | — |
| | Energy Efficiency Class | | A | A | — | |
| Operating Current (max) | | A | 37.7 | 15.7 | 15.8 | |
| Indoor Unit | Input (Cooling / Heating) | Rated | kW | 0.14 | 0.14 | 0.20 |
| | Operating Current (max) | | A | 2.25 | 2.25 | 2.34 |
| | Dimensions | H × W × D | mm | 250 - 1400 - 732 | 250 - 1400 - 732 | 250 - 1400 - 732 |
| | Weight | | kg | 36 | 36 | 37 |
| | Air Volume (Lo-Mid-Hi) | | m ³ /min | 23.0-28.0-32.0 | 23.0 - 28.0 - 32.0 | 28.0 - 34.0 - 37.0 |
| | External Static Pressure* ⁵ | | Pa | 40 - <50> - <70> - <100> - <150> | 40 - <50> - <70> - <100> - <150> | <40> - 50 - <70> - <100> - <150> |
| | Sound Level (SPL) (Lo-Mid-Hi) | | dB(A) | 31 - 36 - 39 | 31 - 36 - 39 | 35 - 39 - 41 |
| | Sound Level (PWL) | | dB(A) | 62 | 62 | 66 |
| | Outdoor Unit | Dimensions | H × W × D | mm | 1350 - 950 - 330 (+30) | 1350 - 950 - 330 (+30) |
| Weight | | | kg | 120 | 134 | 134 |
| Air Volume | | Cooling | m ³ /min | 100 | 100 | 100 |
| | | Heating | m ³ /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 (max) | | | A | 35 | 13 | 13 |
| Breaker Size | | | A | 40 | 16 | 16 |
| Ext. Piping | | Diameter | Liquid / Gas | mm | 9.52 / 15.88 | 9.52 / 15.88 |
| | Max. Length | Out-In | m | 75 | 75 | 75 |
| | Max. Height | Out-In | m | 30 | 30 | 30 |
| Guaranteed Operating Range (Outdoor) | | Cooling* ³ | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | | Heating | °C | -25 ~ +21 | -25 ~ +21 | -25 ~ +21 |

*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 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.

*5 The factory setting of ESP is shown without < > .

PKZ-SHW SERIES



Indoor Unit

R32
R410A



PKA-M100KA(L)2

Outdoor Unit

R410A



PUHZ-SHW112VHA(-BS)
PUHZ-SHW112YHA(-BS)

Remote Controller



*KAL only



*optional



*optional



*optional



| Type | | | | Inverter Heat Pump | | | |
|--------------------------------------|----------------------------------|---------------------------------|--------------|---|--------------|----------------|--------------|
| Indoor Unit | | | | PKA-M100KA(L)2 | | | |
| Outdoor Unit | | | | PUHZ-SHW112VHA | | PUHZ-SHW112YHA | |
| Refrigerant | | | | R410A*1 | | | |
| Power Supply | Source | | | Outdoor power supply | | | |
| | Outdoor (V/Phase/Hz) | | | 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 (2.904) | | 2.924 (2.904) | |
| | Design Load | | kW | 3.42 | | 3.42 | |
| | Annual Electricity Consumption*2 | | kWh/a | 673 | | 673 | |
| | SEER*4 | | | 5.2 | | 5.2 | |
| | | Energy Efficiency Class | | | A | | A |
| Heating (Average Season) | Capacity | Rated | kW | 11.2 | | 11.2 | |
| | | Min - Max | kW | 4.5 - 14.0 | | 4.5 - 14.0 | |
| | Total Input | Rated | kW | 3.103 | | 3.103 | |
| | 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 | 9.4 (-25°C) | | 9.4 (-25°C) | |
| | Back Up Heating Capacity | | kW | 1.5 | | 1.5 | |
| | Annual Electricity Consumption*2 | | kWh/a | 4664 | | 4664 | |
| | SCOP*4 | | | 3.8 | | 3.8 | |
| | Energy Efficiency Class | | | A | | A | |
| Operating Current (max) | | | A | 35.6 | | 13.6 | |
| Indoor Unit | Input | Rated | kW | 0.08 / 0.07 | | 0.08 / 0.07 | |
| | Operating Current (max) | | A | 0.57 | | 0.57 | |
| | Dimensions <Panel> | H × W × D | mm | 365 - 1170 - 295 | | | |
| | Weight <Panel> | | kg | 21 | | 21 | |
| | Air Volume [Lo-Mid-Hi] | | m³/min | 20 - 23 - 26 | | 20 - 23 - 26 | |
| | Sound Level (SPL) [Lo-Mid-Hi] | | dB(A) | 41 - 45 - 49 | | 41 - 45 - 49 | |
| | Sound Level (PWL) | | dB(A) | 65 | | 65 | |
| Outdoor Unit | Dimensions | H × W × D | mm | 1350 - 950 - 330 (+30) | | | |
| | Weight | | kg | 120 | | 134 | |
| | Air Volume | Cooling | m³/min | 100 | | 100 | |
| | | Heating | m³/min | 100 | | 100 | |
| | Sound Level (SPL) | Cooling | dB(A) | 51 | | 51 | |
| | | Heating | dB(A) | 52 | | 52 | |
| | Sound Level (PWL) | Cooling | dB(A) | 69 | | 69 | |
| | Operating Current (max) | | A | 35 | | 13 | |
| | Breaker Size | | A | 40 | | 16 | |
| | Ext. Piping | Diameter | Liquid / Gas | mm | 9.52 / 15.88 | | 9.52 / 15.88 |
| Max. Length | | Out-In | m | 75 | | 75 | |
| Max. Height | | Out-In | m | 30 | | 30 | |
| Guaranteed Operating Range [Outdoor] | | Cooling*3 | °C | -15 ~ +46 | | -15 ~ +46 | |
| | | Heating | °C | -25 ~ +21 | | -25 ~ +21 | |

*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 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.

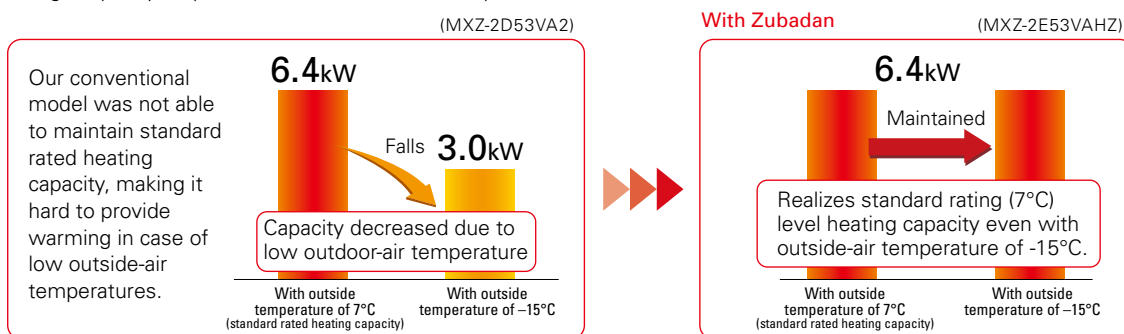
MXZ-VAHZ SERIES

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.



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.

Drain water **freezes** after operation in the harsh cold



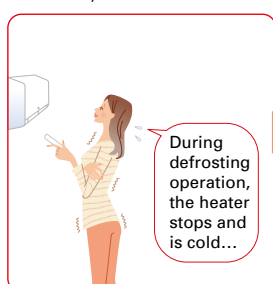
With Hyper heating Does not freeze!



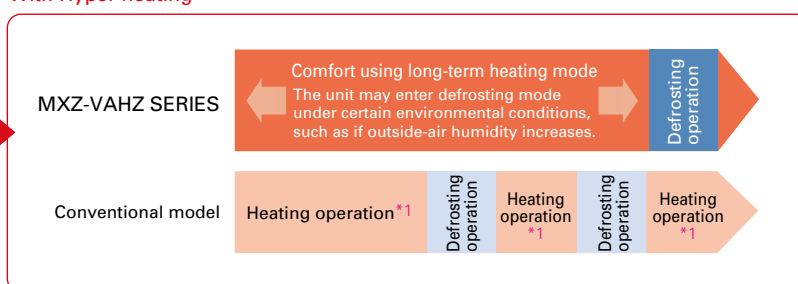
Continuous heating for long periods

Wasteful defrosting operation suppressed to enable more comfortable long-term continuous heating.

Extremely cold outside



With Hyper heating

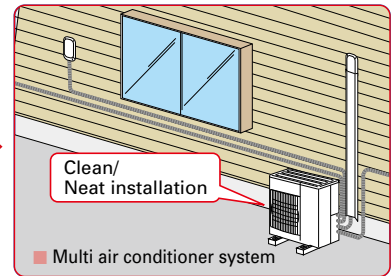
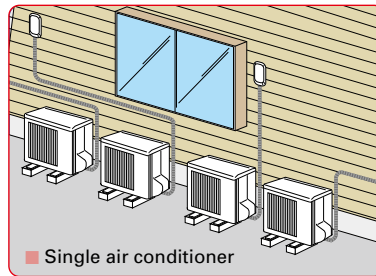


*1: Conventional model performs continuous heating approximately 30min up to a maximum of 90min.

One outdoor unit supports multiple indoor units.

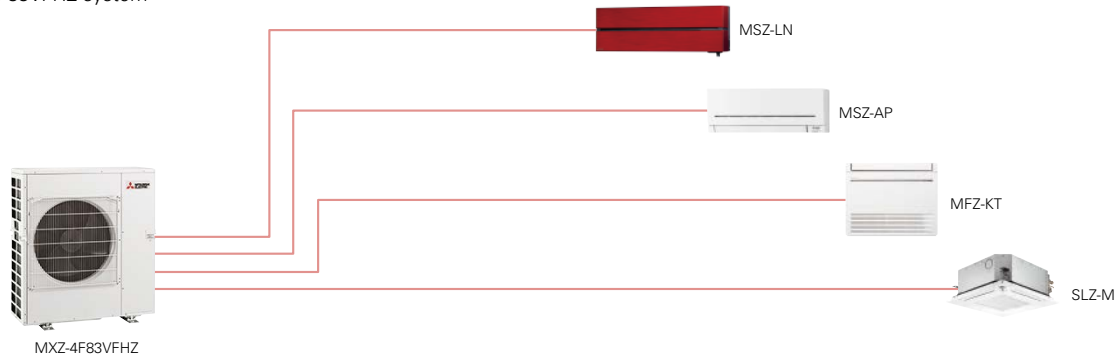
With MXZ-VAHZ, one outdoor unit can cool and heat up to six rooms. They can be installed neatly in sites with limited space such as condominium balconies.

*Please note that cooling and heating modes cannot be run simultaneously in different rooms.



EXAMPLE SYSTEM

MXZ-4F83VFHZ system



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.

OUTDOOR UNITS

2-room use

R32



MXZ-2F53VFHZ

R410A



MXZ-2E53VAHZ

4-room use

R32



MXZ-4F83VFHZ

R410A



MXZ-4E83VAHZ

INDOOR UNITS

Wall-mounted

R32 R410A



MSZ-LN

R32 R410A



MSZ-AP



MSZ-FH



MSZ-SF



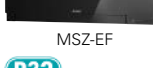
MSZ-EF



MSZ-GF



MSZ-FT



MSZ-FT



MSZ-FT

Floor-standing

R32



MFZ-KT

R410A



MFZ-KJ

Cassette

R32

R410A



SLZ

R32

R410A



MLZ-KP

R410A



PLA

Ceiling-suspended

R410A

*1



PCA

Ceiling-concealed

R32

R410A

*1



SEZ

R410A

*1



PEAD

*1: P series cannot be connect with MXZ-4E83VAHZ when ampere limit adjustment function is operated.

MXZ-VAHZ SERIES



Outdoor Unit

R32



MXZ-2F53VFHZ

R32



MXZ-4F83VFHZ

R410A



MXZ-2E53VAHZ

R410A



MXZ-4E83VAHZ

| Type | | | | Inverter Heat Pump | | | |
|---|--------------------------------------|---------------------------------|-------------|----------------------|-----------------------------|---------------------|-----------------------------|
| Indoor Unit | | | | Please refer to*4 *5 | | | |
| Outdoor Unit | | | | MXZ-2F53VFHZ | MXZ-4F83VFHZ | MXZ-2E53VAHZ | MXZ-4E83VAHZ |
| Refrigerant | | | | R32*6 | | R410A*1 | |
| Power Supply | Source | Outdoor power supply | | | | | |
| | Outdoor (V/Phase/Hz) | 220 - 230 - 240V / Single / 50 | | | | | |
| Cooling | 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 Consumption *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++ |
| | Heating (Average Season) | Capacity | Rated (7°C) | kW | 6.4 | 9.0 | 6.4 |
| Rated (−7°C) | | | kW | 6.4 | 9.0 | 6.4 | 9.0 |
| 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 | | | kW | 6.4 | 10.1 | 6.4 | 10.1 |
| Declared Capacity | | 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 Consumption *2 | | | kWh/a | 2172 | 3286 | 2165 | 3446 |
| SCOP *7 | | | | 4.1 | 4.3 | 4.1 | 4.1 |
| | | Energy Efficiency Class *4 | | A+ | A+ | A+ | A+ |
| Max. Operating Current (Indoor+Outdoor) | | | A | 15.6 | 28.0 | 15.6 | 28.0 |
| Outdoor Unit | Dimensions | H x W x D | mm | 796 x 950 x 330 | 1048 x 950 x 330 | 796 x 950 x 330 | 1048 x 950 x 330 |
| | 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 | | A | 16 | 30 | 16 | 30 |
| Ext. Piping | Diameter | Liquid / Gas | mm | 6.35 x 2 / 9.52 x 2 | 6.35x 4 / 12.7 x 1+9.52 x 3 | 6.35 x 2 / 9.52 x 2 | 6.35x 4 / 12.7 x 1+9.52 x 3 |
| | Total Piping Length (max) | | m | 30 | 70 | 30 | 70 |
| | Each Indoor Unit Piping Length (max) | | m | 20 | 25 | 20 | 25 |
| | Max. Height | | m | 15 | 15 | 15 (10) *3 | 15 (10) *3 |
| | Chargeless Length | | m | 30 | 70 | 20 | 25 |
| | Guaranteed Operating Range [Outdoor] | Cooling | °C | −10 ~ +46 | −10 ~ +46 | −10 ~ +46 | −10 ~ +46 |
| Heating | | °C | −25 ~ +24 | −25 ~ +24 | −25 ~ +24 | −25 ~ +24 | |

*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 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 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.

*3 Actual energy consumption will depend on how the appliance is used and where it is located.

*4 If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10m.

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

MXZ-2F53VFHZ MSZ-LN18VG2 + MSZ-LN35VG2

MXZ-4F83VFHZ MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2

MXZ-2E53VAHZ MSZ-EF18VE + MSZ-EF35VE

MXZ-4E83VAHZ MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF25VE

*6 Indoor unit compatibility table is shown on page 115-116.

*7 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 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.

*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.

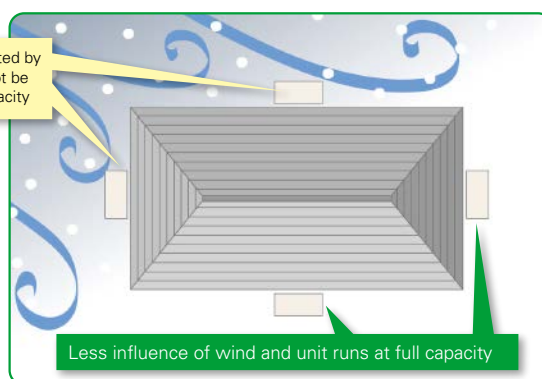
Be sure to check the information below and install the outdoor unit correctly.

1

Installation Location

Be aware of the prevailing wind direction in winter and install the outdoor unit where it is as sheltered as possible.

Units are easily affected by wind and unit may not be able to run at full capacity

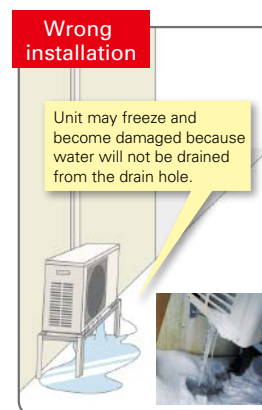
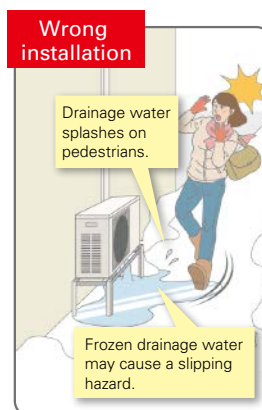
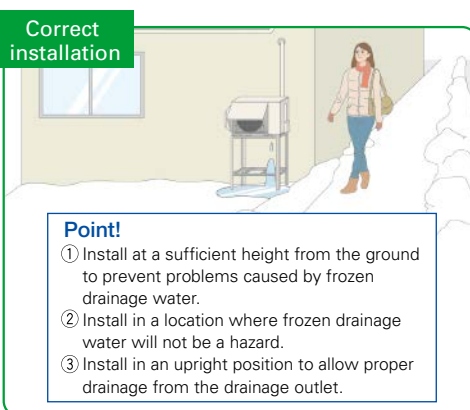


2

Measures for Drainage of Water

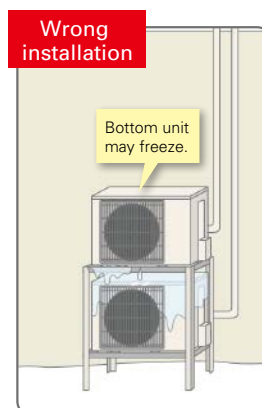
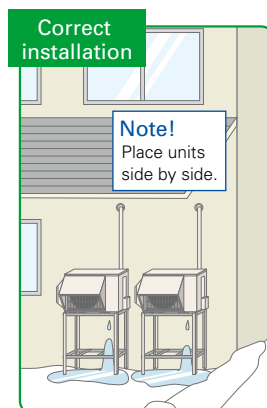
Case 1: Unit is installed close to passage (walkway)

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.



3

Measures for Snow

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]

Correct installation



Point!

- ① Install at a position/height to prevent the unit being buried in snow *1 and the adverse effects of frozen drainage water. *2
 - 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.
- *1 Install at a height above the highest snowfall depth.
*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.

Wrong installation



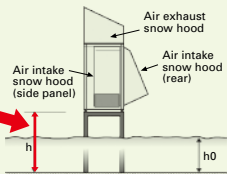
Wrong installation



Use a stand to add sufficient height to protect the unit heat exchanger from snow and prevent icicles forming during defrost operation.

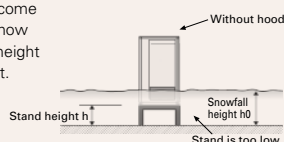
Correct installation

Minimum height (h) should be higher than the highest snowfall depth (h0) **+20cm**



Wrong installation

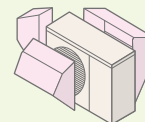
Unit may become covered in snow if the stand height is insufficient.



Install snow protection hood as necessary

[RAC / PAC / MXZ]

Correct installation

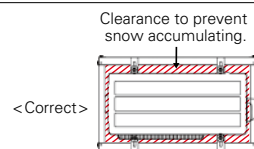


Point!

Install the snow protection hood or other cover in snowy regions.

Necessity of accessories (drain socket & centralised drain pan, stand, snow protection hood, base heater)

| | Snowy region | Cold region | Remarks |
|-------------------------------------|---|------------------------------|---|
| | Countermeasures for snow | Countermeasures for freezing | |
| Drain socket, 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 protection hood | Needed *When the installation position is subject to snowfall. | — | 1. Prevents heat exchanger from being covered in snow. 2. 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.

AIR TO WATER



SELECTION Choose the series that best matches the building layout.

Excellent ecodan's heating performance, even at low outdoor temperature!

R32

INDOOR UNIT

Hydrobox, Cylinder unit



OUTDOOR UNIT

| Packaged type | Small capacity (Under 5kW)* | Medium capacity (6kW–14kW)* |
|----------------------------------|--------------------------------|--------------------------------|
| ZUBADAN New Generation | | PUZ-HWM140 |
| POWER INVERTER | PUZ-WM50 | PUZ-WM60/85/112 |
| Split type | Small capacity (Under 5kW)* | Medium capacity (6kW–14kW)* |
| ZUBADAN New Generation | | PUD-SHWM60/80/100/120/140 |
| POWER INVERTER | | PUD-SWM60/80/100/120 |
| Eco Inverter | SUZ-SWM40/60 | SUZ-SWM80 |

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

R410A

INDOOR UNIT

Hydrobox, Cylinder unit



OUTDOOR UNIT

| Split type | Medium capacity (7.5kW–14kW)* | Large capacity (≥16kW)* | |
|---|---|--|---|
|  |  PUHZ-SHW80/112 |  PUHZ-SHW140 |  PUHZ-SHW230 |
|  |  PUHZ-SW75/100 |  PUHZ-SW120 |  PUHZ-SW160/200 |

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

Other ATW-related system

Mr.SLIM+

R410A



PUHZ-FRP71

PUMY + ecodan

R410A



PUMY-P112/125/140

ecodan geodan

R32



EHGT17D-YM9ED

New Eco-design Directive

What is the ErP Directive?

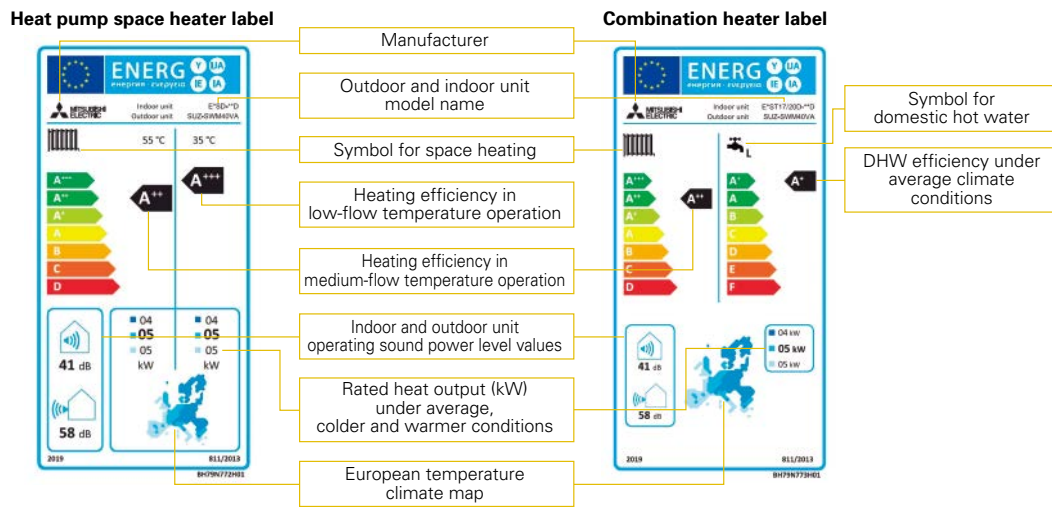
The Eco-design Directive for Energy-related Products (ErP Directive) established a framework to set mandatory standards for ErPs sold in the European Union (EU). The ErP Directive introduces new energy efficiency ratings across various product categories. It affects how products such as computers, vacuum 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 hydrobox, and the combination heater label is used for ecodan systems with a cylinder unit.



These labels are delivered with all ecodan outdoor units.

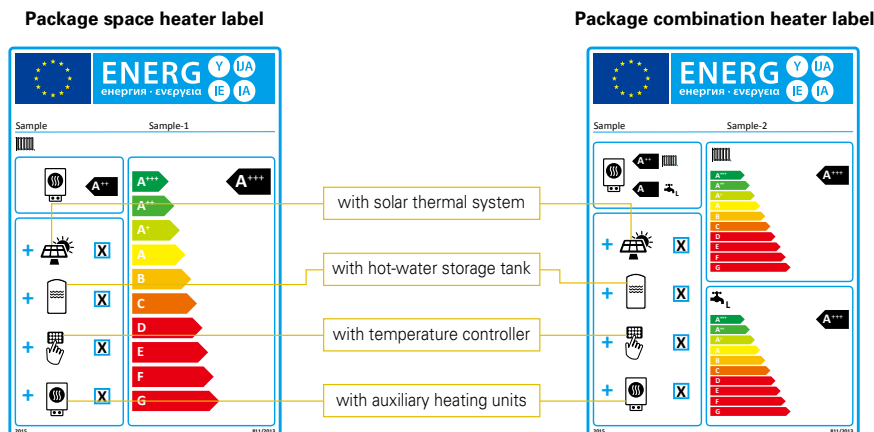
What is the package label?

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

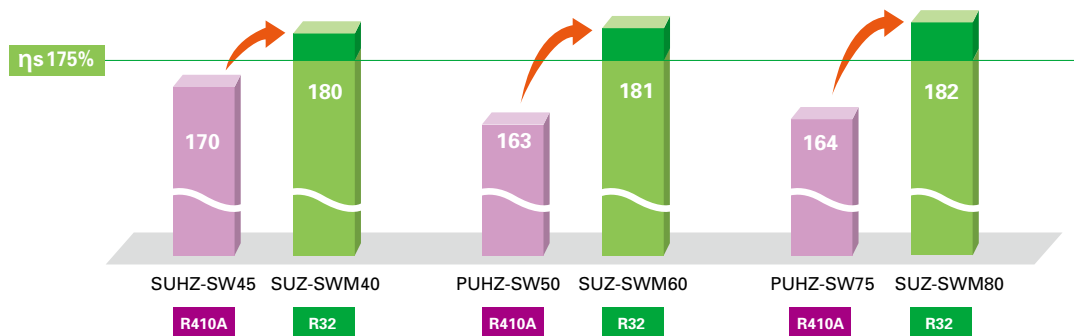
Energy Efficient and Environmentally Friendly Heating

- Wide variety of product line with R32 refrigerant
- More energy efficient than conventional eco inverter models



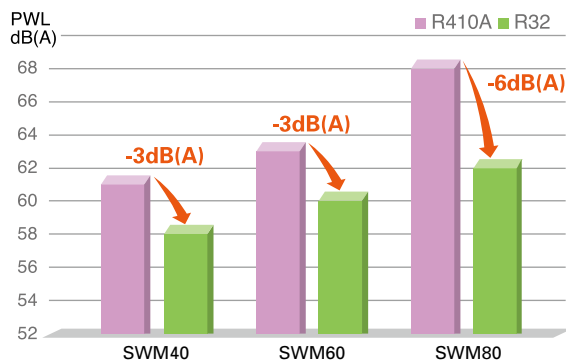
High Performance

All models have achieved the "RANK A+++" for SCOP at low temperature.



Low Noise

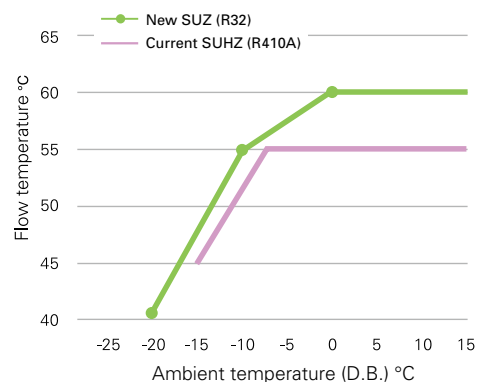
Compared with conventional outdoor unit, New R32 eco inverter achieved lower noise level, assuring the flexibility of installation in dense residential areas.



* Compared SUZ-SWM40/60/80VA with SUHZ-SW45VA/PUHZ-SW50VKA/PUHZ-SW75VHA
* Rated condition (According to EN12102)

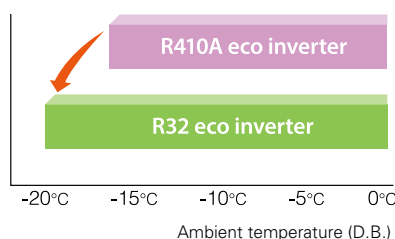
60°C Flow Temperature

Along with its 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.



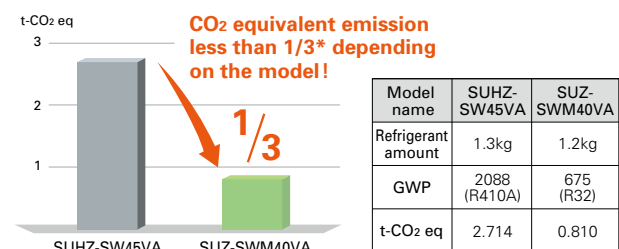
Guaranteed Operating Range Expansion

Guaranteed heating operating range is extended to -20°C.



Reducing Refrigerant Amount

<R410A vs R32> CO₂ equivalent emission



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

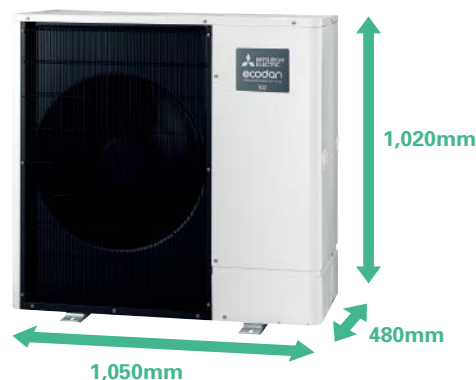
Dedicated Heat Pump for Residence



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.

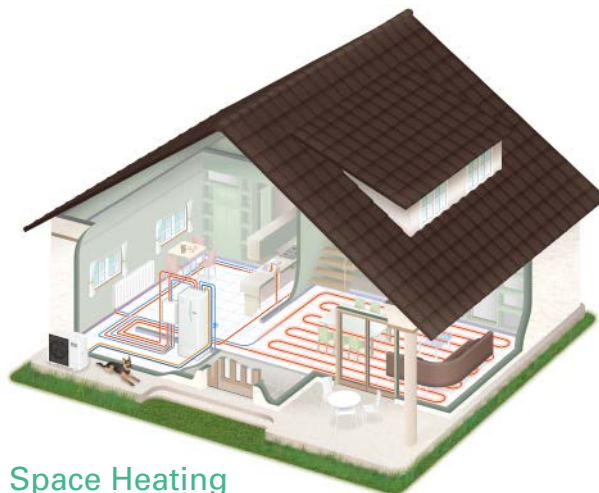


High Performance

New Compressor



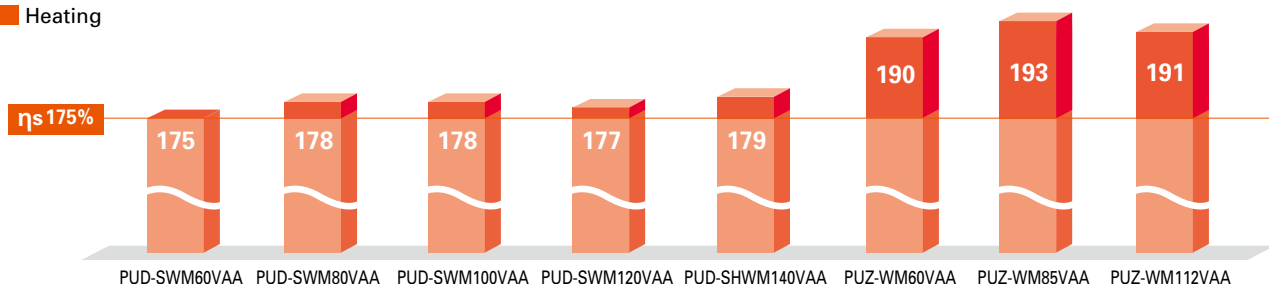
- Compact
 - High performance
 - Flash injection*
- *ZUBADAN (SHWM) only



ErP Lot 1 Compliant with Highest Seasonal Space Heating Energy Efficiency Class A+++

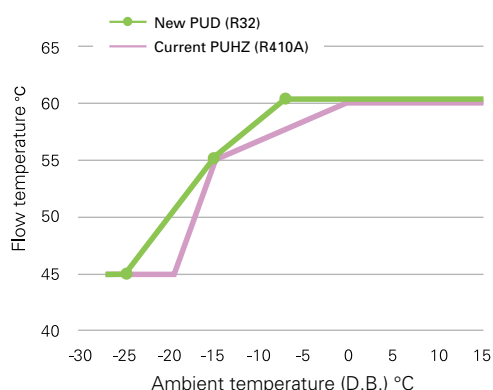
All models have achieved the "RANK A+++" for SCOP at low temperature.

Heating



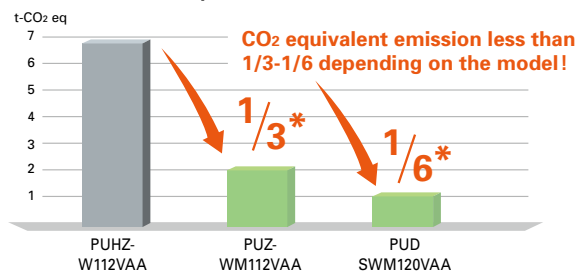
60°C Flow Temperature at Low Ambient Temperature

60°C max flow temperature can be maintained up to Ambient -7°C.
(For PUD-S(H)WM models)



Reducing Refrigerant Amount

<R410A vs R32> CO₂ equivalent emission



| Model name | PUHZ-W112VAA | PUZ-WM112VAA | PUD-SWM120VAA |
|----------------------|--------------|--------------|---------------|
| Refrigerant amount | 3.3kg | 3.0kg | 1.6kg |
| GWP | 2088 (R410A) | 675 (R32) | 675 (R32) |
| t-CO ₂ eq | 6.890 | 2.025 | 1.080 |

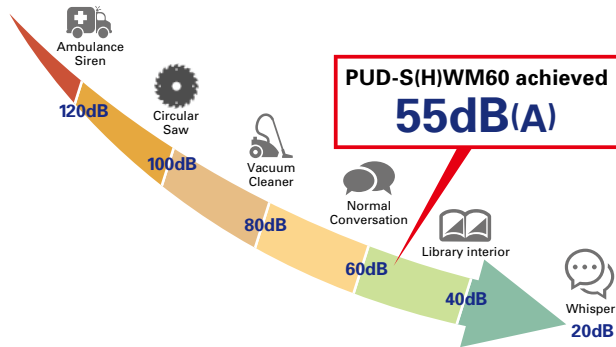
*Source: IPCC 4th Assessment Report, global warming potential (GWP) 100-year value. Comparison of 2088(R410A) and 675 (R32).

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.

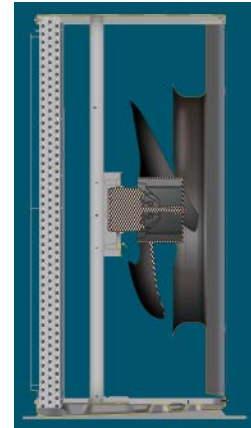
* Rated condition (According to EN12102)



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

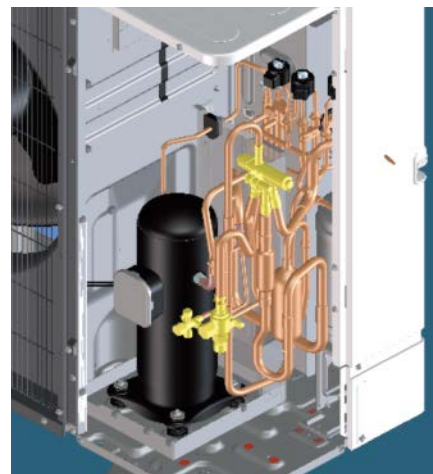
Primary: enclosing a compressor (the structure is patented.)

Secondary: enclosing machine room.



Avoiding Vibration and Resonance

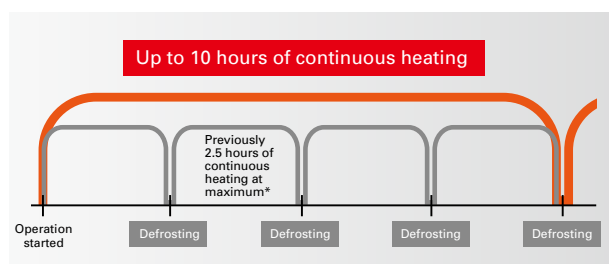
- Dedicated soft rubber mount for the compressor to avoid vibration.
- Optimising piping structure to avoid vibration and resonance.



New Control for Eco-friendly Heating

Defrost Improvement

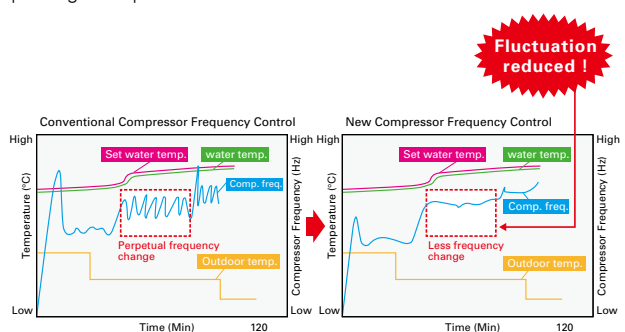
Conventional models often switch to defrost operation even when there is not much frost on outdoor units. By detecting frost more precisely, it is possible to prevent frequent on/off for defrosting and to give you more comfort.



* 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

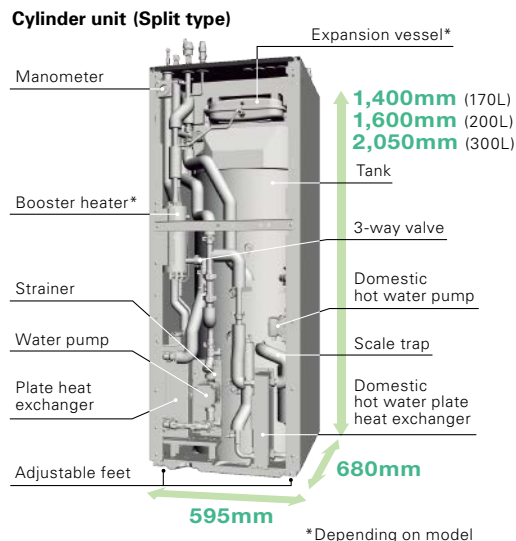
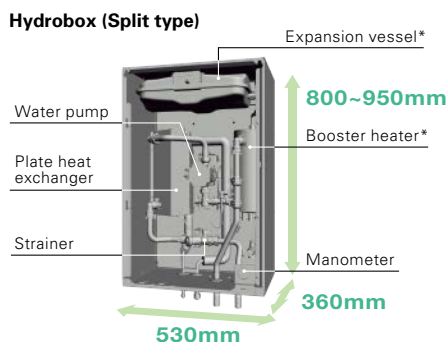
By reducing frequency changes (from 17 to 4 times per hour), hunting is prevented. Reducing fluctuation improves efficiency and prolongs compressor life.



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 hydrobox: Only 530x360mm 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 hydrobox and a reversible cylinder unit are available.



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 hydrobox 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.



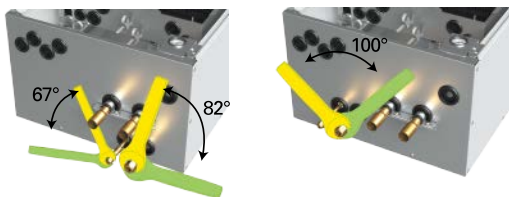
Built-in Drain Pan for Reversible Cylinder Models

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.



Hydrobox 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.

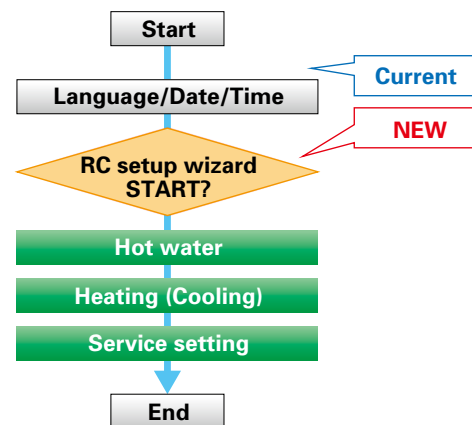
Easy Adjustment

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 Feb 2019 10:00 | | | | | |
|-------------------|---|------|------|------|-------|
| | | THW1 | THW2 | THW5 | Flow |
| 10:00 | ☀ | 41°C | 38°C | 54°C | 20L |
| 9:55 | ☀ | 38°C | 38°C | 54°C | 20L |
| 9:50 | ☀ | 48°C | 48°C | 54°C | 20L |
| 9:45 | 🔥 | 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 flex-piping 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), η_{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.

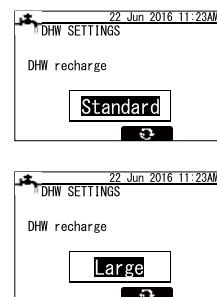
Excellent DHW efficiency



| | 170L | 200L | 300L |
|--------------|-----------------|-----------------|-----------------|
| | η_{wh} [%] | η_{wh} [%] | η_{wh} [%] |
| 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

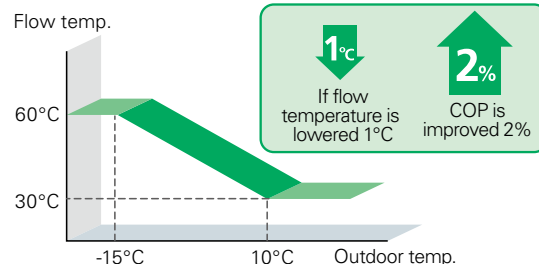
Auto Adaptation

Maximise Energy Savings While Retaining Comfort at All Times

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.

■ Heat curve setting (Example)



*SD logo is a trademark of SD-3C, LLC

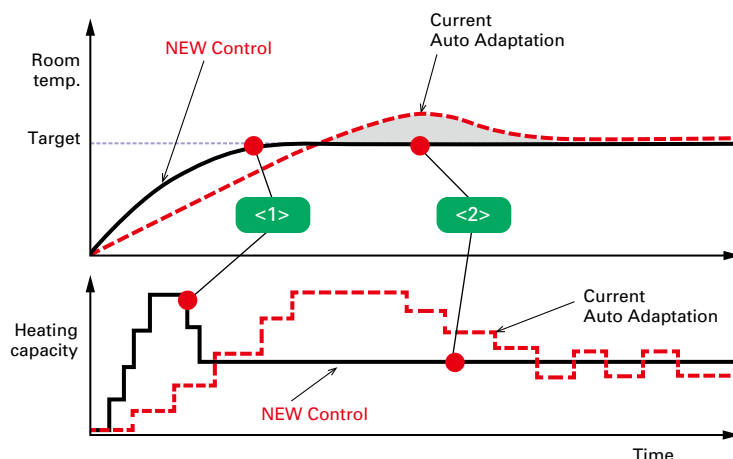
Auto Adaptation Improvement

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 achieved faster heating and more energy saving.



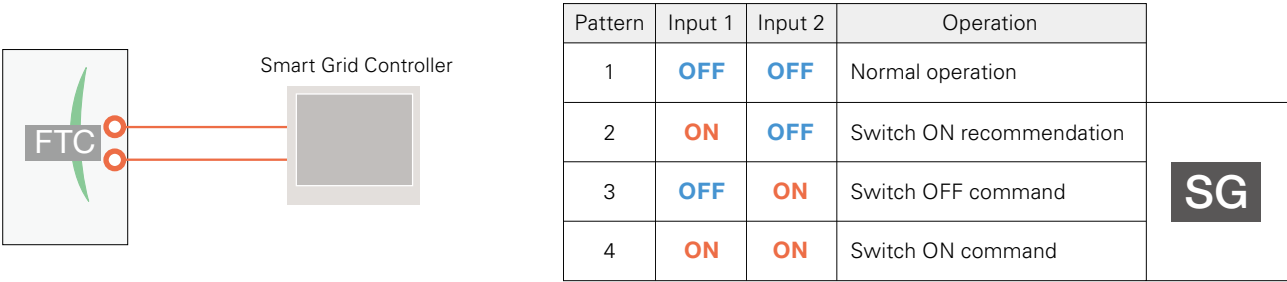
<1> Fast heating with improved accuracy in learning building heat load

<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, Hydrobox 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 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.

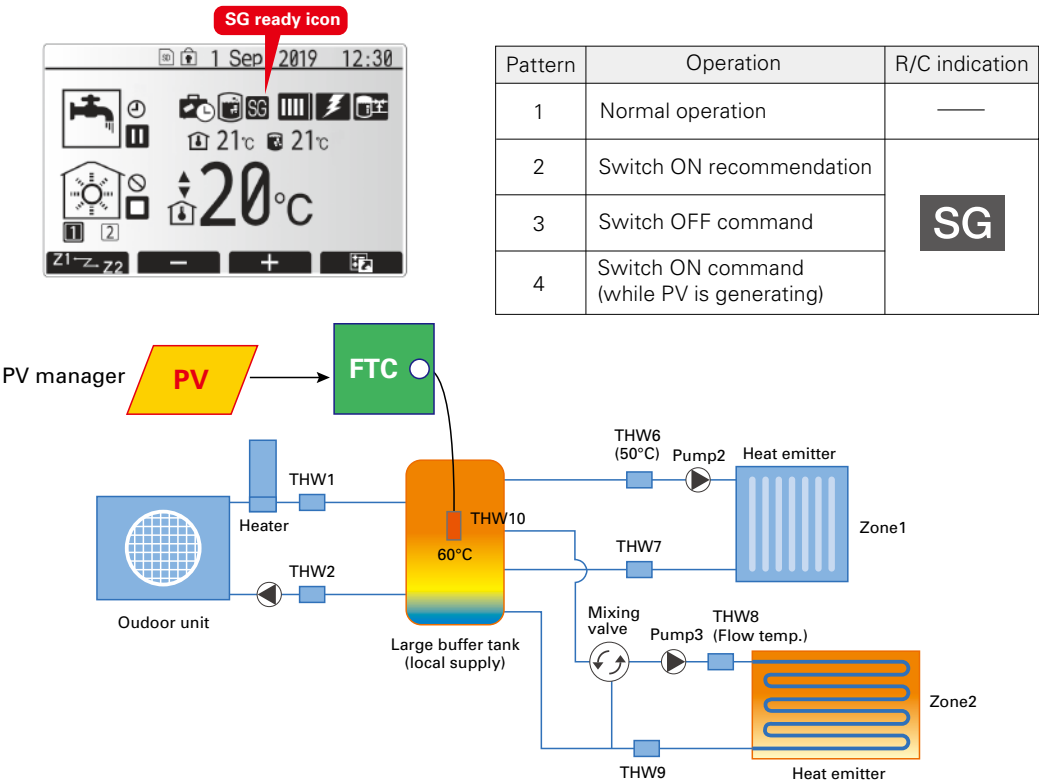
Pattern 4: Switch ON command

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 receives 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.





*SD logo is a trademark of SD-3C, LLC

Intelligent Hybrid Control (boiler interlock)

An Existing Boiler Can Be Used for Extra Heating Capacity in an Efficient Way

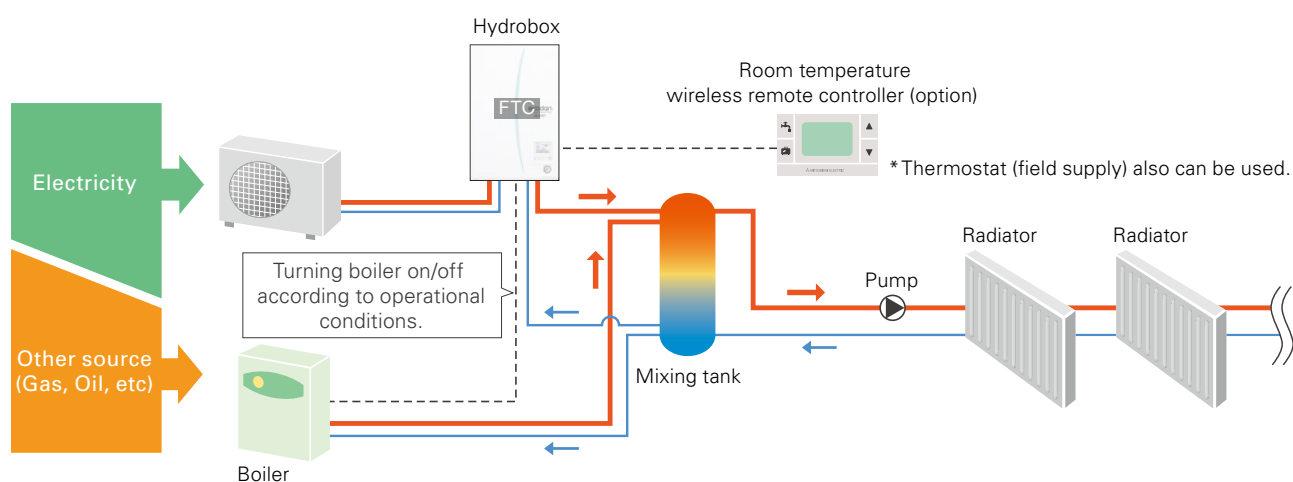
The flexibility of ecodan's intelligent control allows the system to be combined with the boiler currently in use. Additionally, this control can judge which heating source to use either ecodan or the existing boiler, based on various conditions*.

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



* 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 CO₂ emission level
 - Heat source switchover occurs to minimise CO₂ emission.
 - *Pre-registration of CO₂ 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.



*SD logo is a trademark of SD-3C, LLC

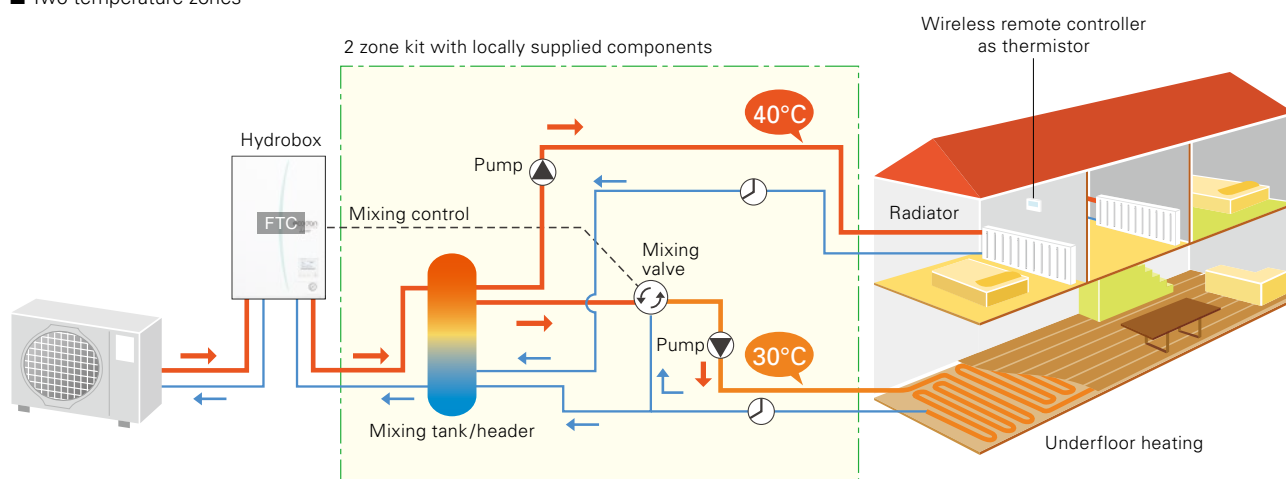
2 Zone Control (for heating/cooling)

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



*Items such as a mixing tank, mixing valve and pumps are not included and need to be purchased locally.

Multiple Unit Control

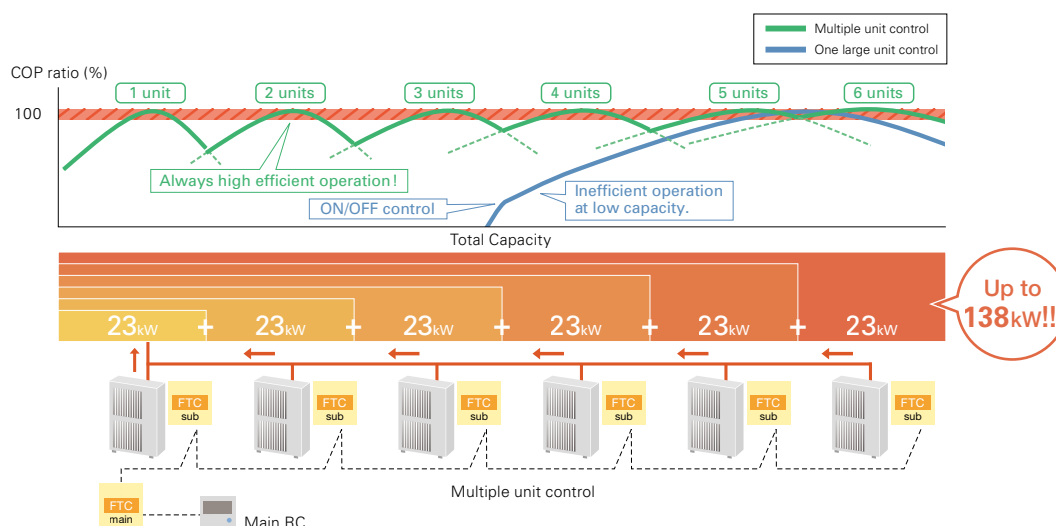
Connect up to 6 Units – Automatic Control of Multiple Units for Bigger Capacity and Better Efficiency

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

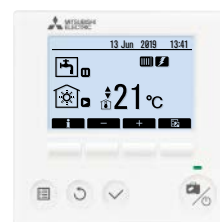
Smart User-friendly Controller with Stylish Design

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 | – Floor drying mode |
| – Two-zone control (cooling and heating) | – Weekly timer |
| – Two separate schedules | – Holiday mode |
| – Summer time setting | – Legionella prevention |
| – Built-in room temperature sensors | – Error codes |
| – Hybrid control (boiler interlock) | |



Main controller



PAR-WR51R-E (Option)
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



*SD logo is a trademark of SD-3C, LLC

Energy Monitoring

View Electricity Consumption and Heat Output on the Remote Controller

Every end user can now easily check the energy data of the ecodan heat pump.

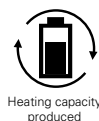
Other features

- 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.

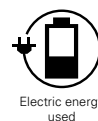
*Using pre-set values on the main remote controller, estimated energy consumption/output can be shown without external power and a heat meter.

Depending on operating condition and system configuration, there is some possibility to show different data from the reality.

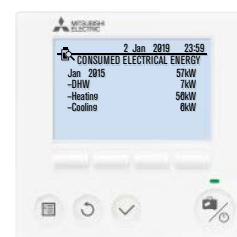
*This function is available depending on the version of the outdoor unit model.



Heating capacity produced



Electric energy used



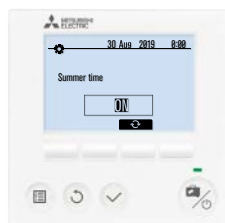
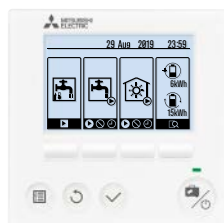
*SD logo is a trademark of SD-3C, LLC

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.

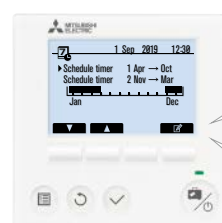


Two Separate Schedules

Pre-setting Two Different Schedules for Winter and Summer Seasons

Two different schedule settings are available for use via the main remote controller.

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.



<Example>

| | |
|--------------------|----------------------|
| Schedule 1 | Winter time |
| Space heating | daytime |
| Domestic hot water | early morning |
| Schedule 2 | Summer time |
| Domestic hot water | any time |

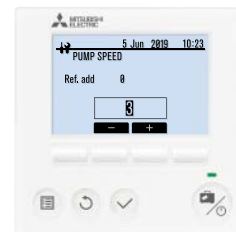
Easy Commissioning

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.

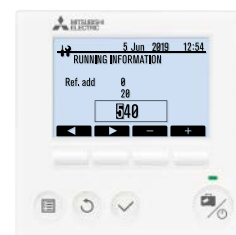


Flow sensor newly incorporated

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.



*SD logo is a trademark of SD-3C, LLC

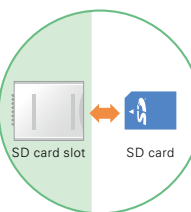
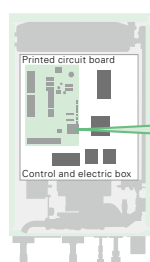
SD* Card

For Easier Settings and Data Logging

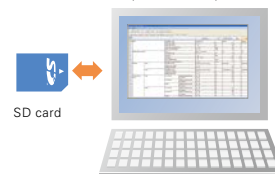
The initial setting for ecodan is now simpler than ever before. The special software enables the required initial settings to be saved to an SD card using a personal computer. The system set-up is as easy as moving the SD card from the computer to the SD card slot in the indoor unit. Compared to the 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.

Hydrobox operation panel



Settings can be performed easily and the logging of operation data saved to an SD card can be confirmed via a personal computer.



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

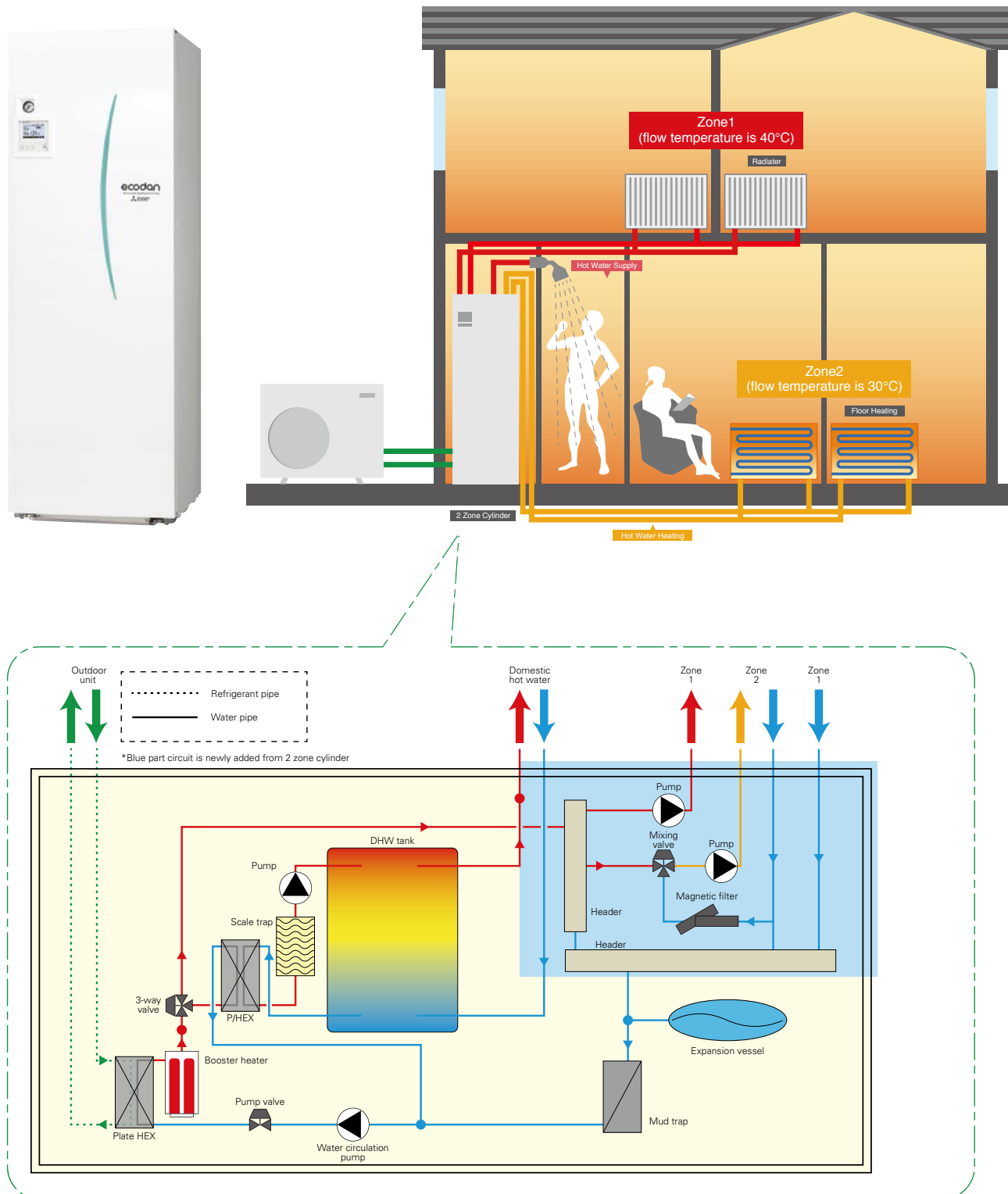
Operation data up to a month long can be stored on a single SD card

- 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.

2 Zone Cylinder

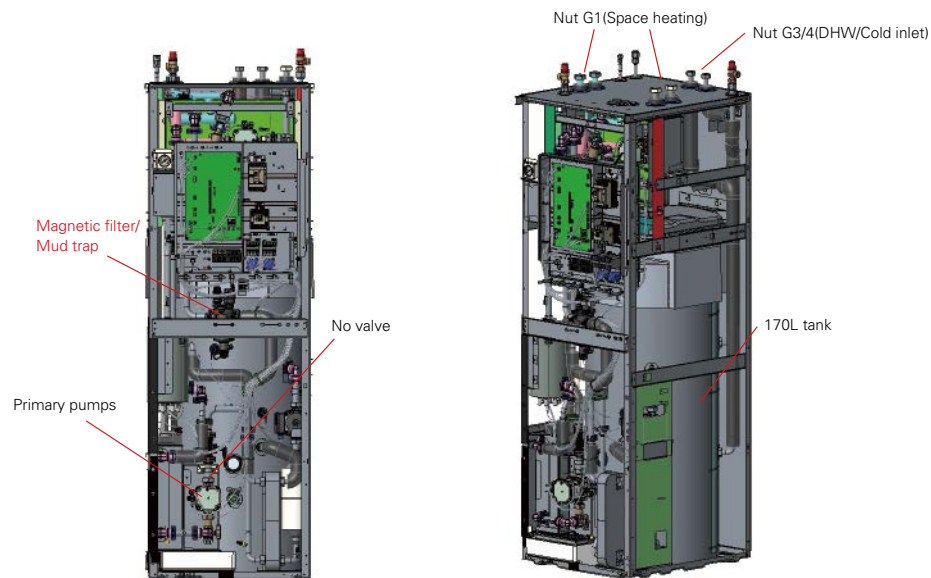
Excellent Performance with Mitsubishi Electric First 2 zone cylinder

2 zone cylinder control 1/2 zones water temperature. Also, magnetic filter and mud trap are newly added instead of strainer. Thanks to built-in magnetic filter and mud trap, installer work/time can be reduced.



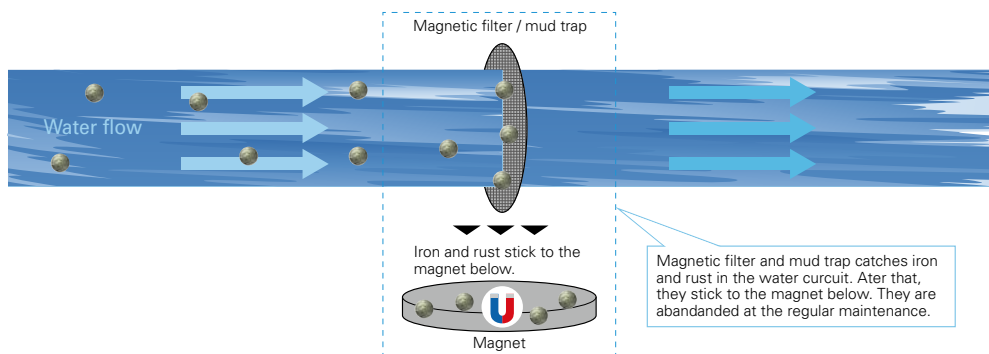
Components

The figure below is component of 2 zone cylinder. Magnetic filter/mud trap are newly added.



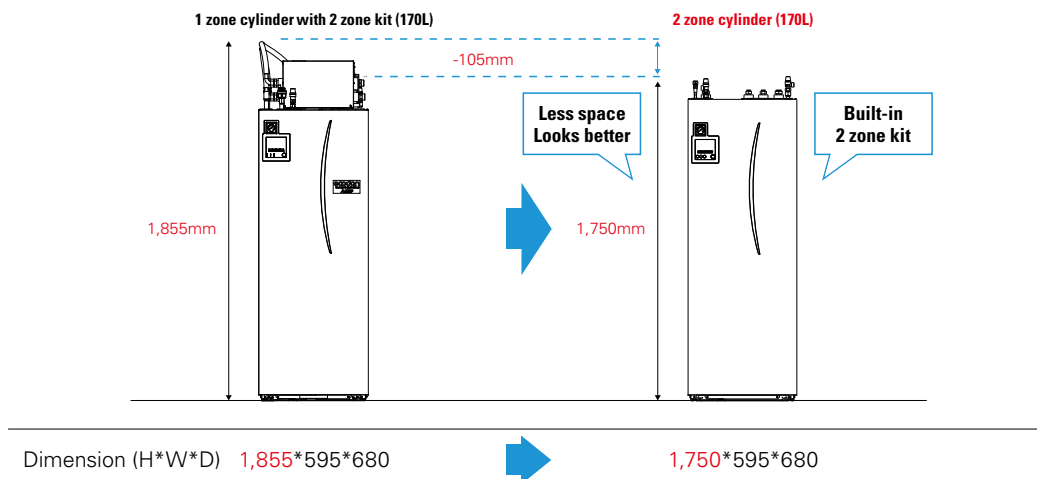
Clean circuit water

Magnetic filter and mud trap are newly added instead of strainer. Thanks to them, keep the water in the circuit clean and prevent deterioration of mixing valve.



Easy installation & transportation

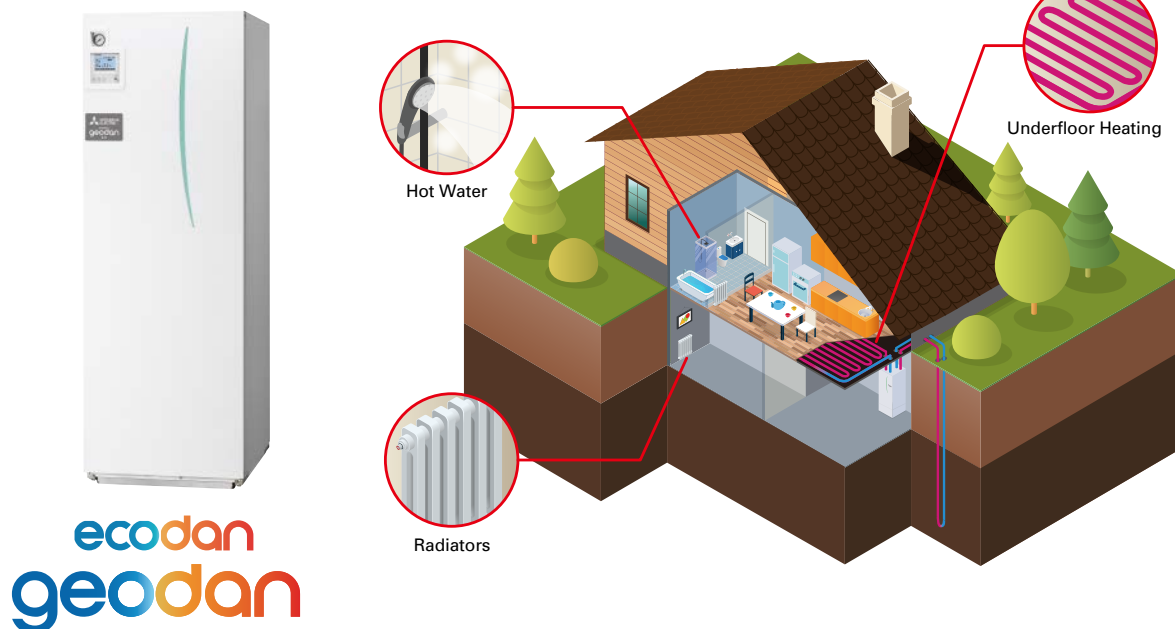
At only 1750mm, 2 zone cylinder is the class-leading compact unit on the market, making the ideal solution for rooms and basements with a low ceiling height.



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

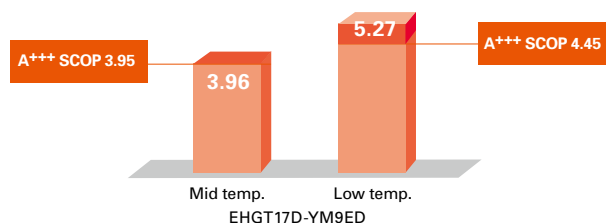
ErP Lot 1 Compliant with highest seasonal space heating energy efficiency class A+++.



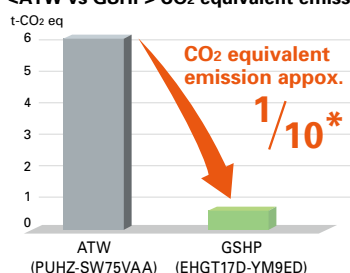
TIME FOR
R32

Low GWP refrigerant R32 contributes the reduction of CO₂ emission compared with conventional R410A refrigerant.

A+++ Class Energy Efficiency



<ATW vs GSHP> CO₂ equivalent emission

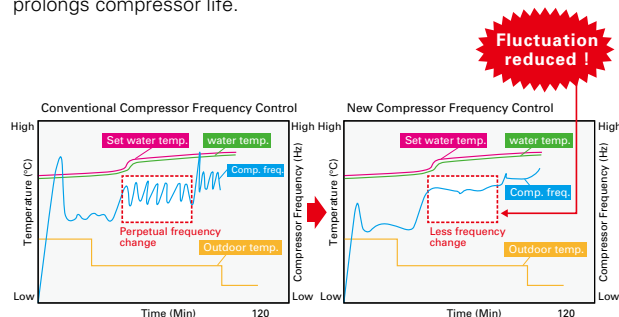


| Model name | PUHZ-SW75VAA | EHGT17D-YM9ED |
|----------------------|--------------|---------------|
| Refrigerant amount | 3.0kg | 0.9kg |
| GWP | 2088 (R410A) | 675 (R32) |
| t-CO ₂ eq | 6.264 | 0.608 |

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

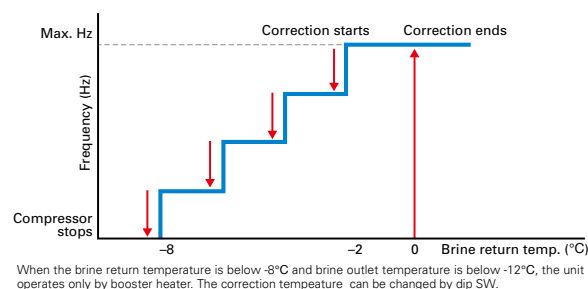
New Compressor Frequency Control

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

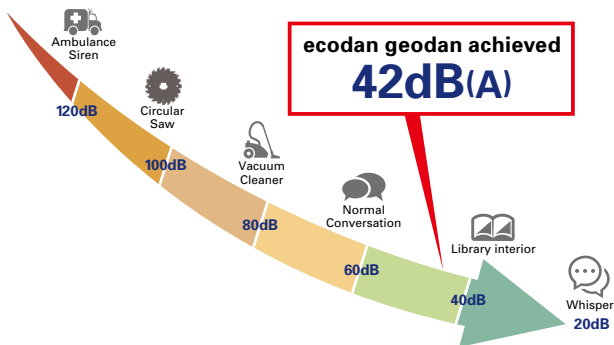
When the unit detects low underground temperature, it automatically reduces the capacity by decreasing heat source collection in order to protect the borehole.



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)*.

* B0W35 Rated condition



Silencing Noise

The triple covering structure of the compressor unit greatly reduces sound level through noise absorption.

1st Cover

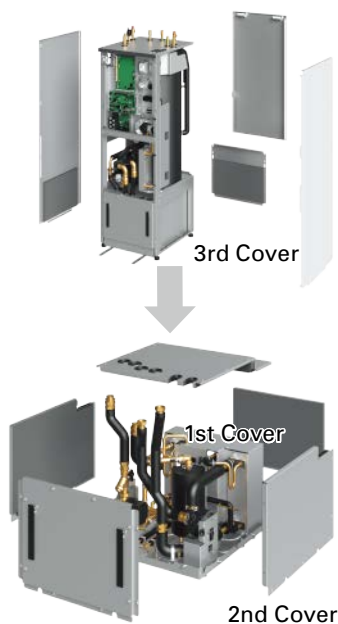
Compressor sound insulation box
(with noise absorbing felt and damper)

2nd Cover

Module Box
(with noise absorbing felt)

3rd Cover

Outside panel
(with noise absorbing felt)



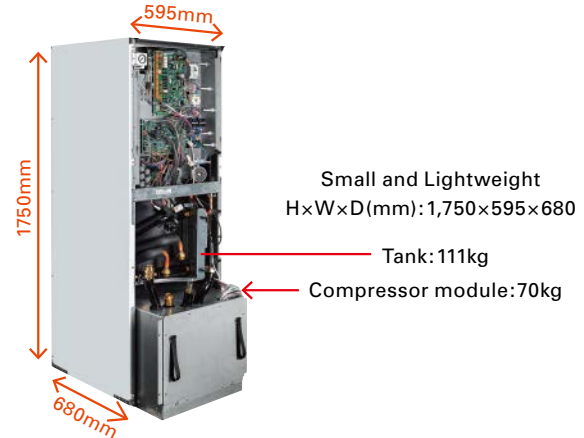
Avoiding Vibration Noise

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.



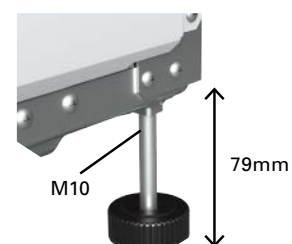
Flexible Piping Work

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

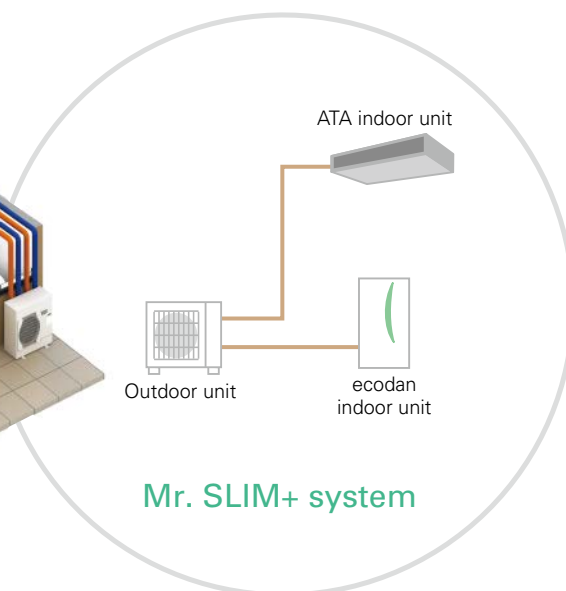
All-in-one outdoor unit (air conditioning, domestic hot water supply and hot water heating)

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

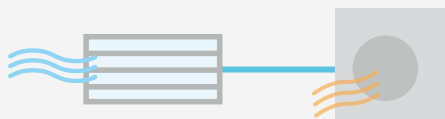
- ✓Domestic hot water (DHW) supply
- ✓Heating for multiple rooms



Various Operations

Mr. SLIM / ATA (Air Cooling)

Cooling using ATA indoor unit



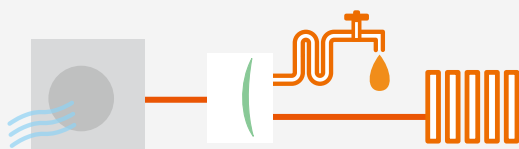
Mr. SLIM / ATA (Air Heating)

Heating using ATA indoor unit



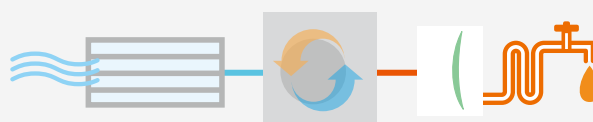
ecodan / ATW (Hot water heating + DHW)

Heating and DHW using ATW indoor unit



Mr. SLIM + ecodan / ATA (Air Cooling) + DHW

Heat recovery using both ATA and ATW indoor units



Specifications

| Indoor unit | | | | PLA-ZM71EA2 | PKA-M71KA(L)2 | PCA-M71KA2 | PSA-M71KA | PEAD-M71JA2 | PEAD-M71JAL2 | |
|--------------------------------------|--|-----------------------------------|---------------------------------|-----------------------------|---|----------------|----------------|----------------|----------------|-------------|
| Outdoor unit | | | | PUHZ-FRP71VHA2 | PUHZ-FRP71VHA2 | PUHZ-FRP71VHA2 | PUHZ-FRP71VHA2 | PUHZ-FRP71VHA2 | PUHZ-FRP71VHA2 | |
| Refrigerant | | | | R410A*1 | | | | | | |
| Power supply | | Outdoor (V / Phase / Hz) | | 230 / Single / 50 | | | | | | |
| Air-to-Air (ATA) | Cooling (ATA) | Capacity | Rated | kW | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| | | | 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 | 2.15 | 2.09 |
| | | | EER | | 3.77 | 3.67 | 3.67 | 3.30 | 3.3 | 3.4 |
| | | Design load | | kW | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| | | Annual electricity consumption *2 | | kWh/a | 376 | 386 | 384 | 409 | 446 | 423 |
| | | SEER *4 | | 6.6 | 6.4 | 6.4 | 6.0 | 5.5 | 5.8 | |
| | | | Energy-efficiency class | | A++ | A++ | A++ | A+ | A | A+ |
| | Heating (average season) | Capacity | Rated | kW | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| | | | 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 |
| | | Total input | Rated | kW | 2.11 | 2.29 | 2.29 | 2.42 | 2.14 | 2.14 |
| | | | COP | | | 3.80 | 3.50 | 3.50 | 3.30 | 3.74 |
| | | Design load | | kW | 4.7 | 4.7 | 4.7 | 4.7 | 4.9 | 4.9 |
| | | Declared capacity | at reference design 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 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 heating capacity | | kW | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Annual electricity consumption *2 | | kWh/a | 1,509 | 1,564 | 1,556 | 1,699 | 1,741 | 1,741 |
| | | SCOP *4 | | 4.3 | 4.2 | 4.2 | 3.8 | 3.9 | 3.9 | |
| | | | Energy-efficiency class | | A+ | A+ | A+ | A | A | A |
| Air-to-Water (ATW) | Nominal flow rate (for heating) | | | L/min | 22.90 | | | | | |
| | Heating*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 |
| | | | COP | | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| | Heat recovery (ATA cooling & ATW)*6 | 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 |
| | | | Input | kW | 1.90 | 1.93 | 1.95 | 2.02 | 2.20 | 2.18 |
| | | | COP | | 7.95 | 7.82 | 7.74 | 7.48 | 6.86 | 6.92 |
| | | 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 | 3.27 | 3.25 |
| | | | COP | | 5.42 | 5.37 | 5.33 | 5.21 | 4.92 | 4.95 |
| | ATW indoor unit | | | | Cylinder unit or Hydrobox (see previous page) | | | | | |
| Outdoor unit | Dimensions | HxWxD | mm | 943-950-330 (+30) | | | | | | |
| | Weight | | 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 level (SPL) | Cooling | dB(A) | 47 | 47 | 47 | 47 | 47 | 47 | |
| | | 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 level (PWL) | Cooling | dB(A) | 67 | 67 | 67 | 67 | 67 | 67 | |
| | | 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 current (max) | | | A | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | |
| | Breaker size | | | A | 25 | 25 | 25 | 25 | 25 | |
| Ext.piping | 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 | |
| | Max. length | Out-In | m | 30 (for ATA) + 30 (for ATW) | | | | | | |
| | Max. height | Out-In | m | 20 | 20 | 20 | 20 | 20 | 20 | |
| Guaranteed operating range (outdoor) | | Cooling *3 | °C | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 | |
| | | Heating | °C | −20~+21 | −20~+21 | −20~+21 | −20~+21 | −20~+21 | −20~+21 | |
| | | ATW | °C | −20~+35 | −20~+35 | −20~+35 | −20~+35 | −20~+35 | −20~+35 | |
| | | Heat recovery | °C | +7~+46 | +7~+46 | +7~+46 | +7~+46 | +7~+46 | +7~+46 | |

*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 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

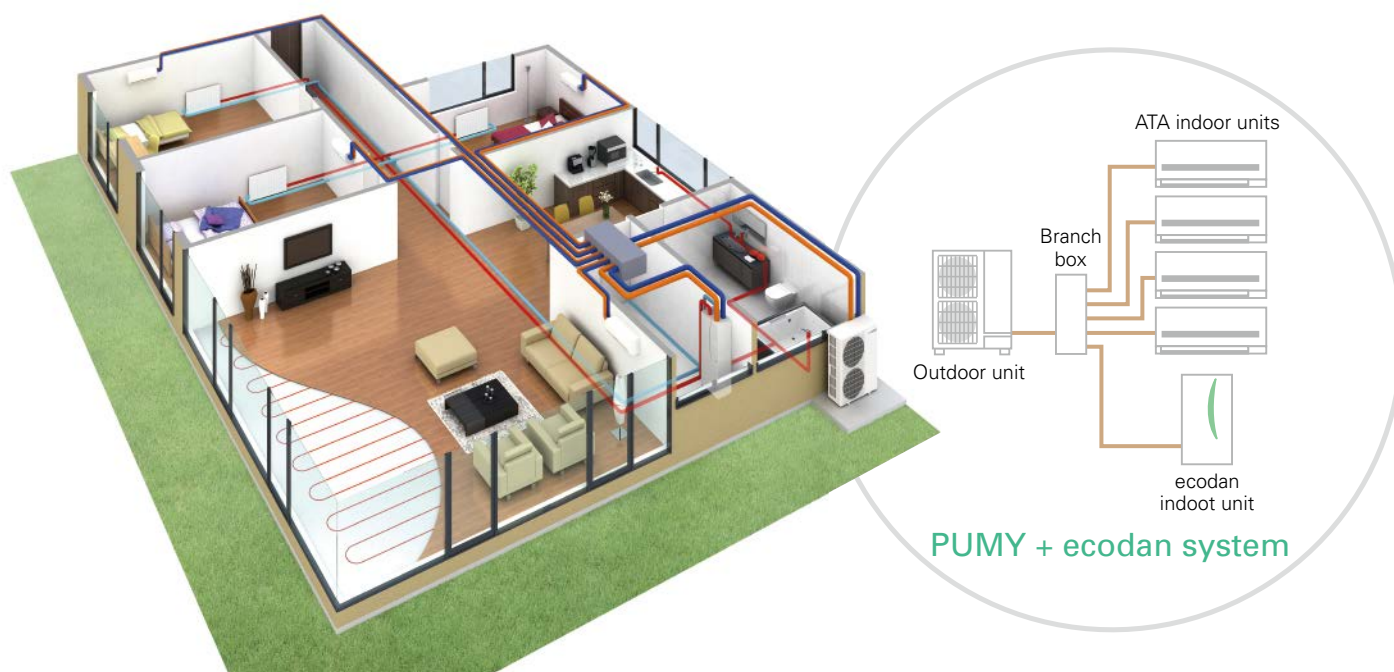
All-in-one outdoor unit (air conditioning, domestic hot water supply and hot water heating)

PUMY for Air-to-Air

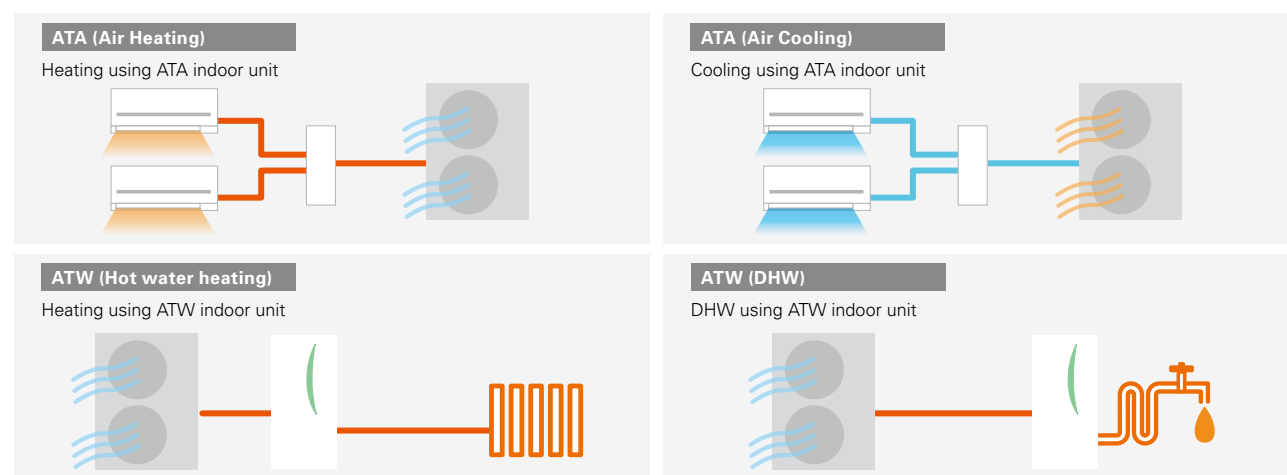
PUMY utilises various indoor units, enabling the air conditioning or heating of multiple rooms, and controls each unit individually.

ecodan for Air-to-Water

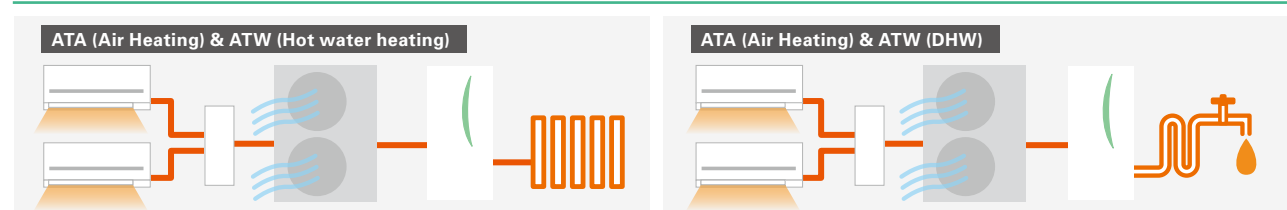
- ✓Domestic hot water (DHW) supply
- ✓Heating for multiple rooms



Main Operation Patterns



Optional Operation Patterns* (simultaneous)

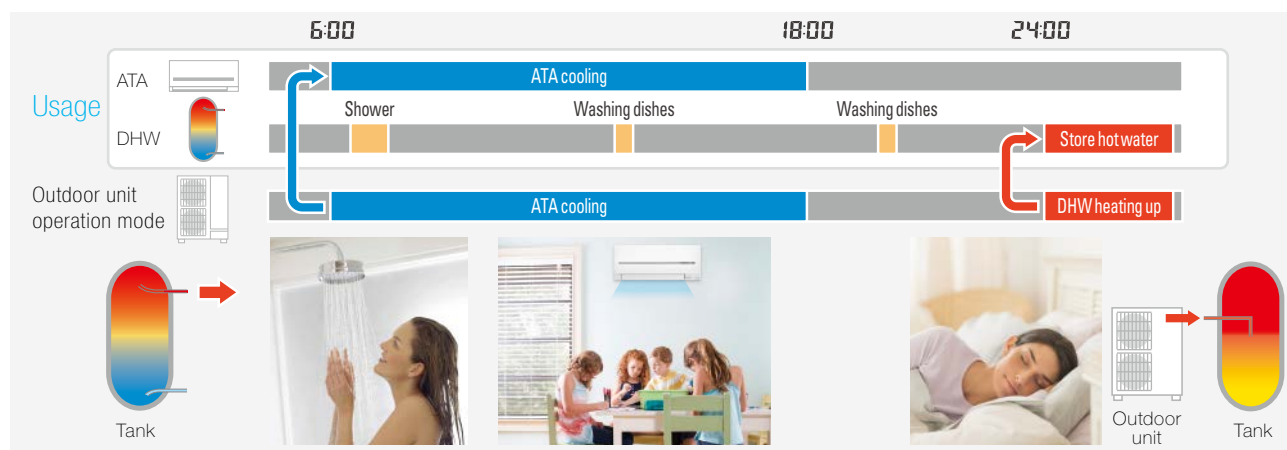


*When using optional simultaneous operation, there are some restrictions, such as connectable indoor units, operation range and DHW flow temp.

Usage Pattern All-in-one System Solution

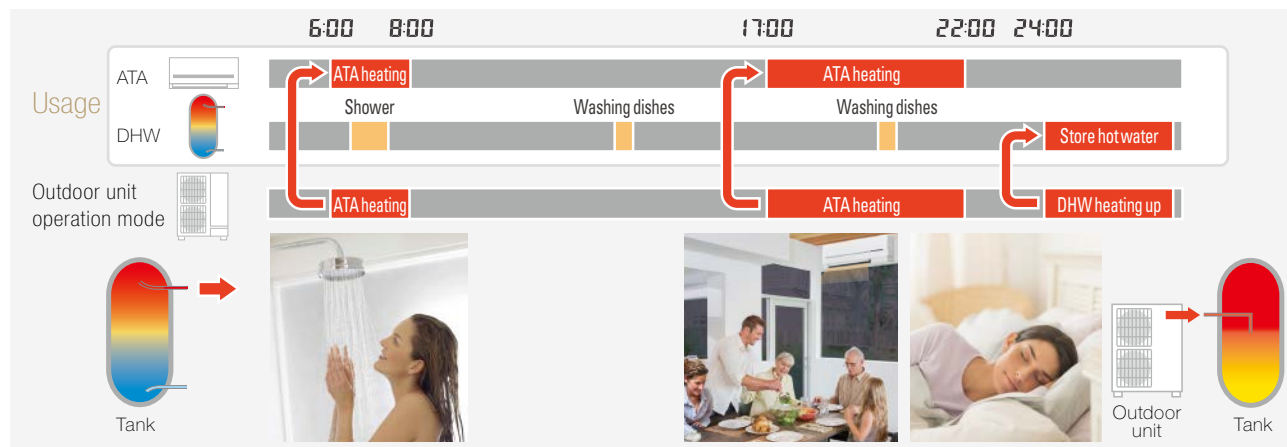
Summer 2-in-1 Operation

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.



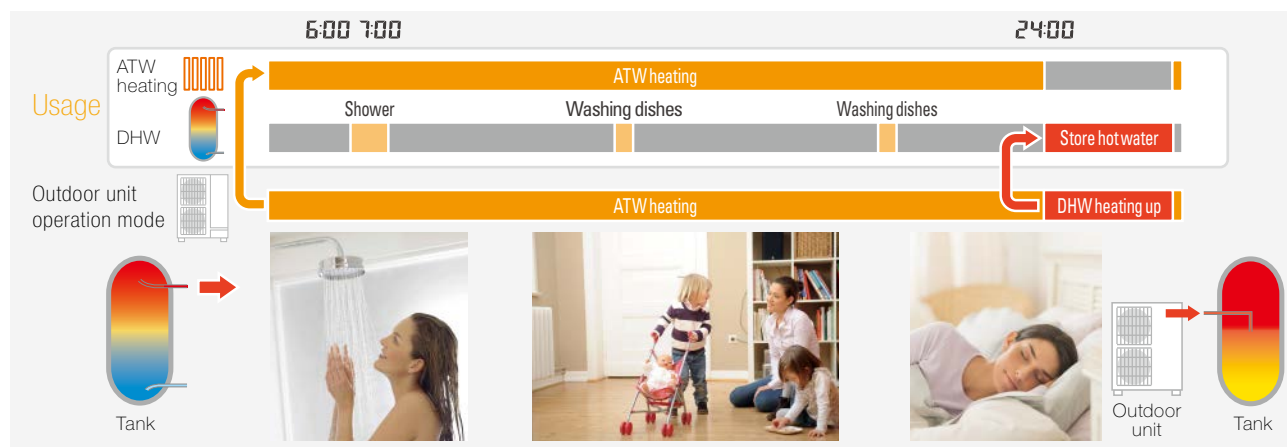
Spring & Autumn 2-in-1 Operation

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-P112VKM5(-BS) | PUMY-P125VKM5(-BS) | PUMY-P140VKM5(-BS) | PUMY-P112YKM(E)4(-BS) | PUMY-P125YKM(E)4(-BS) | PUMY-P140YKM(E)4(-BS) | | |
|--------------------|---------------------------------|--|--------------------------------|--------------------------------|--|---------------------------|--------------------------------|-----------------------|-----------------------|---------------|---------------|
| Power supply | | | | 1-phase 220 - 230 - 240V, 50Hz | | | 3-phase 380 - 400 - 415V, 50Hz | | | | |
| Air-to-Air (ATA) | Cooling (nominal)*1 | Capacity | kW | 12.5 | 14.0 | 15.5 | 12.5 | 14.0 | 15.5 | | |
| | | 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 of cooling | Indoor temp. | W.B. | 15 - 24°C | | | | | | | |
| | | Outdoor temp.*2 | D.B. | -5 - 52°C | | | | | | | |
| | Heating (nominal)*1 | Capacity | kW | 14.0 | 16.0 | 18.0 | 14.0 | 16.0 | 18.0 | | |
| | | 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. | 15 - 27°C | | | | | | | |
| | | Outdoor temp. | D.B. | -20 - 15°C | | | | | | | |
| Air-to-Water (ATW) | Nominal flow rate (for heating) | | | L/min | 35.8 | | | | | | |
| | Heating*3 | A7W35 | Capacity | kW | 12.5 | | | | | | |
| | | | Power input | kW | 3.06 | | | | | | |
| | | | COP | | 4.08 | | | | | | |
| | | A2W35 | Capacity | kW | 10.0 | | | | | | |
| | | | Power input | kW | 3.50 | | | | | | |
| | | | COP | | 2.86 | | | | | | |
| | Guaranteed operating range | ATW | Heating | D.B. | -20 - +21°C | | | | | | |
| | | | DHW | D.B. | -20 - +35°C | | | | | | |
| | | ATA + ATW | ATA heating + DHW | D.B. | 7 - +21°C | | | | | | |
| | | | ATA heating + ATW heating *4 | D.B. | -10 - +21°C | | | | | | |
| | Maximum Outlet water temp. | | | °C | 55 | | | | | | |
| Outdoor unit | Indoor unit connectable | ATA only | Total capacity | | 50 to 130% of outdoor unit capacity | | | | | | |
| | | | 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*5/10 | 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 individual operation | Total capacity | | ATA : Max 130% of outdoor unit capacity + ATW (EHST20C or EHSC) *7 | | | | | | |
| | | | Model/Quantity (including ATW) | 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*5/10 | 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 simultaneous operation | Total capacity | | Max 100% of outdoor unit capacity : ATA + ATW (EHST20C or EHSC) *7 | | | | | | |
| | | | Model/Quantity | 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 | |
| | | | | | ATW | ATW (EHST20C or EHSC) / 1 | | | | | |
| | | Sound pressure level (measured in anechoic room) | | | dB<A> | 49 / 51 | 50 / 52 | 51 / 53 | 49 / 51 | 50 / 52 | 51 / 53 |
| | | Sound power level (measured in anechoic room) | | | dB<A> | 69 / 71 | 70 / 72 | 71 / 73 | 69 / 71 | 70 / 72 | 71 / 73 |
| | | Refrigerant piping diameter | | | Liquid pipe | 9.52 flare | | | | | |
| | Gas pipe | | | | 15.88 flare | | | | | | |
| | Fan | Type x Quantity | Propeller fan x 2 | | | | | | | | |
| | | Airflow rate | m³/min | 110 | | | | | | | |
| | | | L/s | 1,883 | | | | | | | |
| | | | cfm | 3,884 | | | | | | | |
| | | Motor output | kW | 0.074 + 0.074 | | | | | | | |
| | Compressor | Type x Quantity | Scroll hermetic compressor x 1 | | | | | | | | |
| | | Starting method | Inverter | | | | | | | | |
| | | Motor output | kW | 2.9 | 3.5 | 3.9 | 2.9 | 3.5 | 3.9 | | |
| | External dimensions (H x W x D) | | | mm | 1,338 x 1,050 x 330 (+40) | | | | | | |
| | Weight | | | kg | 122 | | | YKM: 125 / YKME: 136 | | | |

*1

| | 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.

*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.

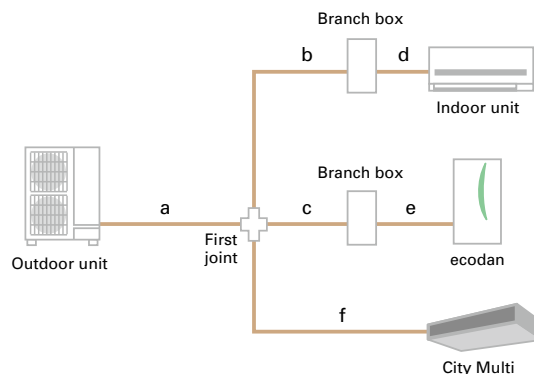
*11 In the case of City Multi connection, maximum is P32.

*12 PKFY and PFFY series are not connectable.

Piping specifications

| | | | |
|---|---|---------|----------------|
| Total piping length | m | 150* | a+b+c+d+e+f |
| Farthest piping length | m | 80 | a+b+d or a+c+e |
| | | 85 | a+f |
| Total piping length between outdoor unit and branch box | m | 55 | a+b+c |
| Total piping length between branch boxes and indoor units | m | 95 | d+e |
| Farthest piping length from the first joint | m | 30 | b or c or f |
| Farthest piping length after branch box | m | 25 | d or e |
| Height difference (Outdoor upside / Outdoor downside) | m | 50 / 40 | |

*When an ecodan is connected, the maximum piping length is 150m.



PUMY+ ecodan Compatibility Table

ATW branch box connection compatibility table

| Series | Type | Model name | Compatibility | Type | Model name | Compatibility | Type | Model name | Compatibility |
|--------|---------------|----------------|---------------|----------|-------------|---------------|------------|-------------|---------------|
| ATW | Cylinder unit | EHST20C-VM2/6D | ● | Hydrobox | EHSC-VM2/6D | ● | Branch box | PAC-MK53BC | ● |
| | | EHST20C-YM9D | ● | | EHSC-YM9D | ● | | 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 Hydrobox) 11.2kW | Connectable ATA indoor unit total capacity: Max.16.2kW (130%) |
| Outdoor capacity 14.0kW | |
| ATW indoor unit (Cylinder or Hydrobox) 11.2kW | Connectable ATA indoor unit total capacity: Max.18.2kW (130%) |
| Outdoor capacity 15.5kW | |
| ATW indoor unit (Cylinder or Hydrobox) 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)

| | | | |
|---|--|-------------------------|---|
| Outdoor capacity 12.5kW | | ATA capacity Max. 1.3kW | *Exceptionally, one MSZ-SF15VA or MSZ-AP15VF can be connected. |
| ATW indoor unit (Cylinder or Hydrobox) 11.2kW | | | |
| Outdoor capacity 14.0kW | | ATA capacity Max. 2.8kW | *Exceptionally, two units of MSZ-SF15VA or MSZ-AP15VF can be connected. |
| ATW indoor unit (Cylinder or Hydrobox) 11.2kW | | | |
| Outdoor capacity 15.5kW | | ATA capacity Max. 4.3kW | *Exceptionally, three units of MSZ-SF15VA or MSZ-AP15VF can be connected. |
| ATW indoor unit (Cylinder or Hydrobox) 11.2kW | | | |

Split Type Specifications

Indoor unit

<Cylinder unit (Heating only)>

| <Cylinder unit (Heating only)> | | | Small capacity | | | | | | | | | | | | | |
|---|--------------------------------------|-------------------------------|-----------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------------|-----------------|-----------------|-----------------|----------------|--|
| Model name | | | EHST17D-VM2D | EHST17D-VM9D | EHST20D-MED | EHST20D-VM2D | EHST20D-VM6D | EHST20D-VM9D | EHST20D-VM9ED | EHST20D-TM9D | EHST30D-MED | EHST30D-VM6ED | EHST30D-VM9ED | EHST30D-TM9ED | | |
| Type | | | Heating only | | | | | | | | | | | | | |
| Expansion vessel | | | ✓ | ✓ | — | ✓ | ✓ | ✓ | — | ✓ | — | — | — | — | | |
| Booster heater (2/6/9kW) | | | ✓ | ✓ | — | ✓ | ✓ | ✓ | ✓ | ✓ | — | ✓ | ✓ | ✓ | | |
| Dimensions | HxWxD | mm | 1400x595x680 | | | | | | | | | 2050x595x680 | | | | |
| Weight (empty) | | kg | 93 | 96 | 93 | 99 | 100 | 102 | 96 | 102 | 113 | 115 | 117 | 117 | | |
| Control Board Power supply (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 | ~ /N,230V, 50Hz | | |
| Heater | Booster heater | Power supply (Phase / V / Hz) | ~ /N,230V, 50Hz | 3 ~ 400V, 50Hz | — | ~ /N,230V, 50Hz | ~ /N,230V, 50Hz | 3 ~ 400V, 50Hz | 3 ~ 400V, 50Hz | 3 ~ 400V, 50Hz | 3 ~ 230V, 50Hz | — | ~ /N,230V, 50Hz | 3 ~ 400V, 50Hz | 3 ~ 230V, 50Hz | |
| | | Capacity | kW | 2 | 3+6 | — | 2 | 2+4 | 3+6 | 3+6 | 3+6 | — | 2+4 | 3+6 | 3+6 | |
| | | Current | A | 9 | 13 | — | 9 | 26 | 13 | 13 | 23 | — | 26 | 13 | 23 | |
| | | Breaker size | A | 16 | 16 | — | 16 | 32 | 16 | 16 | 32 | — | 32 | 16 | 32 | |
| Domestic hot water tank | Volume / Material | | L / - | 170 / Stainless steel (Net) | | | | | | | 300 / Stainless steel (Net) | | | | | |
| Guranteed operating range *1 | Ambient | | °C | 0 - 35 (≦80%RH) | | | | | | | | | | | | |
| | Outdoor | Heating | °C | See outdoor unit spec table | | | | | | | | | | | | |
| | | Cooling | °C | — | | | | | | | | | | | | |
| Target temperature range | Heating | Room temperature | °C | 10 - 30 | | | | | | | | | | | | |
| | | Flow temperature | °C | 20 - 60 | | | | | | | | | | | | |
| | Cooling | Room temperature | °C | — | | | | | | | | | | | | |
| | | Flow temperature | °C | — | | | | | | | | | | | | |
| DHW tank performance | Max. hot water temperature | | °C | 70 | 70 | *2 | 70 | | | | *2 | 70 | | | | |
| | Water heater energy efficiency class | | | A+ | | | | | | | | | A - A+ | | | |
| Sound power level (PWL) | | | dB (A) | 41 | | | | | | | | | | | | |

*1 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 unit (Heating only)>

| <Cylinder unit (Heating only)> | | | Medium capacity | | | | | | | | | | |
|---|-------------------|--------------------------------------|-----------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------------------|-----------------|-----------------|-----------------|----------------|
| Model name | | | EHST20C-MED | EHST20C-VM2D | EHST20C-VM6D | EHST20C-VM9D | EHST20C-VM9ED | EHST20C-TM9D | EHST30C-MED | EHST30C-VM6ED | EHST30C-VM9ED | EHST30C-TM9ED | |
| Type | | | Heating only | | | | | | | | | | |
| Expansion vessel | | | — | ✓ | ✓ | ✓ | — | ✓ | — | — | — | — | |
| Booster heater (2/6/9 kW) | | | — | ✓ | ✓ | ✓ | ✓ | ✓ | — | ✓ | ✓ | ✓ | |
| Dimensions | | HxWxD | mm | 1600x595x680 | | | | | 2050x595x680 | | | | |
| Weight (empty) | | kg | 103 | 110 | 110 | 112 | 107 | 112 | 120 | 122 | 124 | 124 | |
| Control Board Power supply (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 heater | Power supply (Phase / V / Hz) | | — | ~ /N,230V, 50Hz | ~ /N,230V, 50Hz | 3 ~ 400V, 50Hz | 3 ~ 400V, 50Hz | 3 ~ 400V, 50Hz | — | ~ /N,230V, 50Hz | 3 ~ 400V, 50Hz | 3 ~ 230V, 50Hz |
| | | Capacity | kW | — | 2 | 2+4 | 3+6 | 3+6 | 3+6 | — | 2+4 | 3+6 | 3+6 |
| | | Current | A | — | 9 | 26 | 13 | 13 | 23 | — | 26 | 13 | 23 |
| | | Breaker size | A | — | 16 | 32 | 16 | 16 | 32 | — | 32 | 16 | 32 |
| Domestic hot water tank | Volume / Material | | L / - | 200 / Stainless steel (Net) | | | | | 300 / Stainless steel (Net) | | | | |
| | Ambient | | °C | 0 - 35 (≤80%RH) | | | | | | | | | |
| Guranteed operating range *1 | Outdoor | Heating | °C | See outdoor unit spec table | | | | | | | | | |
| | | Cooling | °C | — | | | | | | | | | |
| Target temperature range | Heating | Room temperature | °C | 10 - 30 | | | | | | | | | |
| | | Flow temperature | °C | 20 - 60 | | | | | | | | | |
| | Cooling | Room temperature | °C | — | | | | | | | | | |
| | | Flow temperature | °C | — | | | | | | | | | |
| DHW tank performance | | Max. hot water temperature | | °C | *2 | 70 | | | | *2 | 70 | | |
| | | Water heater energy efficiency class | | | A+ | | | | | A | | | |
| Sound power level (PWL) | | | dB (A) | 40 | | | | | | | | | |

*1 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.

<Hydrobox (Heating only)>

| <Hydrobox (Heating only)> | | | Small capacity | | | | | | Medium capacity | | | | | | Large capacity | | |
|---|----------------|-------------------------------|----------------|-----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Model name | | | EHSD-MED | EHSD-VM2D | EHSD-VM6D | EHSD-VM9D | EHSD-VM9ED | EHSD-TM9D | EHSC-MED | EHSC-VM2D | EHSC-VM6D | EHSC-VM9D | EHSC-VM9ED | EHSC-TM9D | EHSE-MED | EHSE-VM9ED | |
| | | Type | Heating only | | | | | | | | | | | | | | |
| | | Expansion vessel | — | ✓ | ✓ | ✓ | — | ✓ | — | ✓ | ✓ | ✓ | — | ✓ | — | — | |
| | | Booster heater (2/6/9kW) | — | ✓ | ✓ | ✓ | ✓ | ✓ | — | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | — | ✓ |
| Dimensions | | HxWxD | mm | 800x530x360 | | | | | | | | | | | | 950x600x360 | |
| Weight (empty) | | | kg | 36 | 43 | 44 | 44 | 40 | 44 | 40 | 47 | 48 | 48 | 43 | 48 | 61 | 63 |
| Control Board Power supply (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 | ~ /N, 230V, 50Hz | ~ /N, 230V, 50Hz | ~ /N, 230V, 50Hz |
| Heater | Booster heater | Power supply (V / Phase / Hz) | — | ~ /N, 230V, 50Hz | ~ /N, 230V, 50Hz | 3 ~ 400V, 50Hz | 3 ~ 400V, 50Hz | 3 ~ 230V, 50Hz | — | ~ /N, 230V, 50Hz | ~ /N, 230V, 50Hz | 3 ~ 400V, 50Hz | 3 ~ 400V, 50Hz | 3 ~ 230V, 50Hz | — | 3 ~ 400V, 50Hz | |
| | | Capacity | kW | — | 2 | 2+4 | 3+6 | 3+6 | 3+6 | — | 2 | 2+4 | 3+6 | 3+6 | 3+6 | — | 3+6 |
| | | Current | A | — | 9 | 26 | 13 | 13 | 23 | — | 9 | 26 | 13 | 13 | 23 | — | 13 |
| | | Breaker size | A | — | 16 | 32 | 16 | 16 | 32 | — | 16 | 32 | 16 | 16 | 32 | — | 16 |
| Guranteed operating range *1 | Ambient | | L / - | 0 - 35 (≦80%RH) | | | | | | | | | | | | | |
| | Outdoor | Heating | °C | See outdoor unit spec table | | | | | | | | | | | | | |
| | | Cooling | °C | — | | | | | | | | | | | | | |
| Target temperature range | Heating | Room temperature | °C | 10 - 30 | | | | | | | | | | | | | |
| | | Flow temperature | °C | 20 - 60 | | | | | | | | | | | | | |
| | Cooling | Room temperature | °C | — | | | | | | | | | | | | | |
| | | Flow temperature | °C | — | | | | | | | | | | | | | |
| Sound power level (PWL) | | | dB (A) | 41 | | | | | | 40 | | | | | | 45 | |

*1 The indoor environment must be frost-free.

Split Type Specifications

Indoor unit

<Cylinder unit (Reversible)>

| <Cylinder unit (Reversible)> | | | Small capacity | | | | | | | | | | | | |
|---|--------------------------------------|-------------------------------|-----------------------------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----|--|
| Model name | | | ERST17D-VM2D | ERST17D-VM2BD | ERST17D-VM6D | ERST17D-VM6BD | ERST17D-VM9BD | ERST20D-VM2D | ERST20D-VM6D | ERST20D-VM9D | ERST30D-VM2ED | ERST30D-VM6ED | ERST30D-VM9ED | | |
| Type | | | Heating and Cooling | | | | | | | | | | | | |
| Expansion vessel | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |
| Booster heater (2/6/9 kW) | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| Dimensions | HxWxD | mm | 1400x595x680 | 1750x595x680 | 1400x595x680 | 1750x595x680 | 1750x595x680 | 1600x595x680 | 1600x595x680 | 1600x595x680 | 2050x595x680 | 2050x595x680 | 12050x595x680 | | |
| Weight (empty) | | kg | 94 | 116 | 94 | 116 | 118 | 100 | 100 | 102 | 115 | 116 | 117 | | |
| Control Board Power supply (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 heater | 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, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | 3 ~, 400V, 50Hz | | |
| | | Capacity | kW | 2 | 2 | 2+4 | 2 | 3+6 | 2 | 2+4 | 3+6 | 2 | 2+4 | 3+6 | |
| | | Current | A | 9 | 9 | 26 | 9 | 13 | 9 | 26 | 13 | 9 | 26 | 13 | |
| | | Breaker size | A | 16 | 16 | 32 | 16 | 16 | 16 | 32 | 16 | 16 | 32 | 16 | |
| Domestic hot water tank | Volume / Material | L / - | 170 / Stainless steel (Net) | 170 / Stainless steel (Net) | 170 / Stainless steel (Net) | 170 / Stainless steel (Net) | 170 / Stainless steel (Net) | 200 / Stainless steel (Net) | 200 / Stainless steel (Net) | 200 / Stainless steel (Net) | 300 / Stainless steel (Net) | 300 / Stainless steel (Net) | 300 / Stainless steel (Net) | | |
| Guranteed operating range *1 | Ambient | °C | 0 - 35 (≦ 80%RH) | | | | | | | | | | | | |
| | Outdoor | Heating | °C | See outdoor unit spec table | | | | | | | | | | | |
| | | Cooling | °C | See outdoor unit spec table *2 | | | | | | | | | | | |
| Target temperature range | Heating | Room temperature | °C | 10 - 30 | | | | | | | | | | | |
| | | Flow temperature | °C | 20 - 60 | | | | | | | | | | | |
| | Cooling | Room temperature | °C | - | | | | | | | | | | | |
| | | Flow temperature | °C | 5 - 25 | | | | | | | | | | | |
| DHW tank performance | Max. hot water temperature | | °C | 70 | | | | | | | | | | | |
| | Water heater energy efficiency class | | | A ⁺ | | | | | | | | | | | |
| Sound power level (PWL) | | | dB (A) | 41 | | | | | | | | | | | |

*1 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.

<Cylinder unit (Reversible)>

| <Cylinder unit (Reversible)> | | | | Medium capacity | | | | | |
|---|-------------------|--------------------------------------|--------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Model name | | | | ERST20C-VM2D | ERST20C-VM6D | ERST20C-VM9D | ERST30C-VM2ED | ERST30C-VM6ED | ERST30C-VM9ED |
| Type | | | | Heating and Cooling | | | | | |
| Expansion vessel | | | | ✓ | ✓ | ✓ | | | |
| Booster heater (2/6/9kW) | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Dimensions | | HxWxD | mm | 1600x595x680 | 1600x595x680 | 1600x595x680 | 2050x595x680 | 2050x595x680 | 2050x595x680 |
| Weight (empty) | | | kg | 110 | 111 | 112 | 122 | 122 | 124 |
| Control Board Power supply (Phase / V / Hz) | | | | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz |
| Heater | Booster heater | Power supply (V / Phase / Hz) | | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | 3~, 400V, 50Hz | ~/N, 230V, 50Hz | ~/N, 230V, 50Hz | 3~, 400V, 50Hz |
| | | Capacity | kW | 2 | 2+4 | 3+6 | 2 | 2+4 | 3+6 |
| | | Current | A | 9 | 26 | 13 | 9 | 26 | 13 |
| | | Breaker size | A | 16 | 32 | 16 | 16 | 32 | 16 |
| Domestic hot water tank | Volume / Material | | L / - | 200 / Stainless steel (Net) | 200 / Stainless steel (Net) | 200 / Stainless steel (Net) | 300 / Stainless steel (Net) | 300 / Stainless steel (Net) | 300 / Stainless steel (Net) |
| Guranteed operating range *1 | Ambient | | °C | 0 - 35 (≦80%RH) | | | | | |
| | Outdoor | Heating | °C | See outdoor unit spec table | | | | | |
| | | Cooling | °C | See outdoor unit spec table *2 | | | | | |
| Target temperature range | Heating | Room temperature | °C | 10 - 30 | | | | | |
| | | Flow temperature | °C | 20 - 60 | | | | | |
| | Cooling | Room temperature | °C | - | | | | | |
| | | Flow temperature | °C | A ⁺ | | 5 - 25 | | A | |
| DHW tank performance | | Max. hot water temperature | | °C | 70 | | | | |
| | | Water heater energy efficiency class | | | | | | | |
| Sound power level (PWL) | | | dB (A) | 40 | | | | | |

*1 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.

<Hydrobox (Reversible)>

| <Hydrobox (Reversible)> | | | Small capacity | | | | Medium capacity | | | | Large capacity | | |
|---|----------------|-------------------------------|---------------------|--------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Model name | | | ERSD-MED | ERSD-VM2D | ERSD-VM6D | ERSD-VM9D | ERSC-MED | ERSC-VM2D | ERSC-VM6D | ERSC-VM9D | ERSE-MED | ERSE-VM9ED | |
| | | | Heating and Cooling | | | | | | | | | | |
| | | | Expansion vessel | - | ✓ | ✓ | ✓ | - | ✓ | ✓ | ✓ | - | - |
| Booster heater (2/6/9 kW) | | | - | ✓ | ✓ | ✓ | - | ✓ | ✓ | ✓ | - | ✓ | |
| Dimensions | HxWxD | mm | 800x530x360 | | | | | | | | | 950x600x360 | |
| Weight (empty) | | | kg | 38 | 44 | 43 | 44 | 41 | 48 | 48 | 48 | 62 | 64 |
| Control Board Power supply (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 heater | 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 | |
| | | Capacity | kW | - | 2 | 2+4 | 3+6 | - | 2 | 2+4 | 3+6 | - | 3+6 |
| | | Current | A | - | 9 | 26 | 13 | - | 9 | 26 | 13 | - | 13 |
| | | Breaker size | A | - | 16 | 32 | 16 | - | 16 | 32 | 16 | - | 16 |
| Guranteed operating range *1 | Ambient | °C | 0 - 35 (≦80%RH) | | | | | | | | | | |
| | Outdoor | Heating | °C | See outdoor unit spec table | | | | | | | | | |
| | | Cooling | °C | See outdoor unit spec table *2 | | | | | | | | | |
| Target temperature range | Heating | Room temperature | °C | 10 - 30 | | | | | | | | | |
| | | Flow temperature | °C | 20 - 60 | | | | | | | | | |
| | Cooling | Room temperature | °C | - | | | | | | | | | |
| | | Flow temperature | °C | 5 - 25 | | | | | | | | | |
| Sound power level (PWL) | | | dB (A) | 41 | | | | 40 | | 40 | 40 | 45 | |

*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.

Split Type Specifications

Outdoor unit

| Outdoor unit | | | | 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 (V / Phase / Hz) | | | | 230 / 1-ph / 50 | 230 / 1-ph / 50 | 230 / 1-ph / 50 |
| Heating | A7W35*2 | Nominal | kW | 4.0 | 6.0 | 7.5 |
| | | COP | | 5.20 | 4.86 | 4.70 |
| | A2W35*2 | Nominal | kW | 4.0 | 5.0 | 6.5 |
| | | COP | | 3.90 | 3.33 | 3.40 |
| | | Average climate water outlet 35°C*3 | | Class | A+++ | A+++ |
| | | ηs | 180 | 181 | 182 | |
| Average climate water outlet 55°C*3 | Class | | A++ | A++ | A++ | |
| | ηs | | 129 | 130 | 131 | |
| DHW 200L(L) Load Profile (Average climate)*4 | Class | | A+ | A+ | A+ | |
| | ηwh | | 159 | 148 | 148 | |
| Max outlet water temperature (°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)*5 | | dB(A) | 58 | 60 |
| Max operating current | | | A | 13.9 | 13.9 | 13.9 |
| Breaker size | | | A | 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 Operating Range | 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 unit

| Outdoor unit | | | | Power Inverter, Heating only | | | | ZUBADAN, Heating only | | | | |
|---|----------|------------|-------|--|----------------|-----------------|-----------------|-----------------------|-----------------|------------------|------------------|------------------|
| Model name | | | | 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 |
| Refrigerant | | | | R32*1 | | | | | | | | |
| Dimensions | | HxWxD | mm | 1020x1050x480 | 1020x1050x480 | 1020x1050x480 | 1020x1050x480 | 1020x1050x480 | 1020x1050x480 | 1020x1050x480 | 1020x1050x480 | 1020x1050x480 |
| Weight | | | kg | 101 | 101/114 | 105/118 | 105/118 | 102 | 102/115 | 108/121 | 108/121 | 110/122 |
| Power supply (V / Phase / Hz) | | | | VAA: 230 / 1-ph / 50, YAA: 400 / 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 climate water outlet 35°C*3 | | Class | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |
| | | ηs | | 175 | 178/176 | 178/177 | 177/176 | 178 | 181/179 | 180/178 | 179/177 | 179/177 |
| Average climate water outlet 55°C*3 | | Class | | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ |
| | | ηs | | 130 | 131/130 | 131/130 | 129/128 | 134 | 135/134 | 136/135 | 135/134 | 134/134 |
| DHW 200L(L)/300L(XL) Load Profile (Average climate)*4 | | Class | | A+ / A | A+ / A | A+ / A | A+ / A | A+ / A | A+ / A | A+ / A | A+ / A | A+ / A |
| | | ηwh | | 148/121 | 148/121 | 148/121 | 148/121 | 148/121 | 148/121 | 148/121 | 148/121 | 145/121 |
| Max outlet water temperature (°C) | | | | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| PWL (Heating)*5 | | | dB(A) | 55 | 56 | 59 | 60 | 55 | 56 | 59 | 60 | 62 |
| Max operating current | | | A | 16.5 | 22/8 | 26/10 | 28/12 | 16.5 | 22/8 | 26/10 | 28/12 | 35/12 |
| Breaker size | | | A | 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 Operating Range | | 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 |
| | | 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 |

*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 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 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 ηs values are measured based on EN14825. *4 ηwh values are measured based on EN16147. *5 Sound power levels are measured based on EN12102.

Split type

Small capacity (Under 5kW)*

Medium capacity (6.0kW~14kW)*



Eco Inverter



PUD-SHWM60/80/100/120/140



PUD-SWM60/80/100/120



SUZ-SWM40/60



SUZ-SWM80

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

Split Type Specifications

Outdoor unit

| Outdoor unit | | | | Power Inverter | | | | |
|---|----------|------------|-------|---|----------------------|----------------------|--------------------|--------------------|
| Model name | | | | PUHZ-SW75V/YAA(-BS) | PUHZ-SW100V/YAA(-BS) | PUHZ-SW120V/YHA(-BS) | PUHZ-SW160YKA(-BS) | PUHZ-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 supply (V / Phase / Hz) | | | | VAA, VHA: 230 / 1-ph / 50, YAA, YHA, YKA: 400 / 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 climate water outlet 35°C*3 | | Class | | A++ | A++ | A++ | A++ | A++ |
| | | ηs | | 162/160 | 167/165 | 162/162 | 161 | 163 |
| Average climate water outlet 55°C*3 | | Class | | A++ | A++ | A++ | A++ | A++ |
| | | ηs | | 129/128 | 130/129 | 125/125 | 125 | 127 |
| DHW 200L(L)/300L(XL) Load Profile (Average climate)*4 | | Class | | A+ / A | A+ / A | A+ / A | — | — |
| | | ηwh | | 145/120 | 145/120 | 138/118 | — | — |
| Max outlet water temperature (°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)*5 | | | dB(A) | 58 | 60 | 72 | 78 | 78 |
| Max operating current | | | A | 22.0/11.5 | 28.0/12.0 | 29.5/13.0 | 19.0 | 21.0 |
| Breaker size | | | A | 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 Operating Range | Heating | | °C | −20°C~21°C | −20°C~21°C | −20°C~21°C | −20°C~21°C | −20°C~21°C |
| | 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 |

| | | | | ZUBADAN | | | |
|---|----------|------------|-------|---|-----------------------|---------------------|-----------------|
| Model name | | | | PUHZ-SHW80V/YAA(-BS) | PUHZ-SHW112V/YAA(-BS) | PUHZ-SHW140YHA(-BS) | PUHZ-SHW230YKA2 |
| Refrigerant | | | | R410A*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 / Hz) | | | | VAA, VHA: 230 / 1-ph / 50, YAA, 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 climate water outlet 35°C*3 | | Class | | A++ | A++ | A++ | A++ |
| | | ηs | | 169/167 | 171/169 | 163 | 164 |
| Average climate water outlet 55°C*3 | | Class | | A++ | A++ | A++ | A++ |
| | | ηs | | 133/132 | 135/135 | 127 | 127 |
| DHW 200L(L)/300L(XL) Load Profile (Average climate)*4 | | Class | | A+ / A | A+ / A | A+ / A | – |
| | | ηwh | | 145/120 | 145/120 | 138/118 | – |
| Max outlet water temperature (°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)*5 | | | dB(A) | 59 | 60 | 70 | 75 |
| Max operating current | | | A | 22/13 | 28/13 | 13 | 20 |
| Breaker size | | | A | 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 Operating Range | Heating | | °C | –28°C~21°C | –28°C~21°C | –28°C~21°C | –25°C~21°C |
| | 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 |

*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 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 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 EN14511 (Circulation pump input is not included.).

*3 ηs values are measured based on EN14825. *4 ηwh 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) | |
|---|------------|---|------------------|---|-------------|
|  | |  | PUHZ-SHW80/112AA |  | PUHZ-SHW140 |
| | |  | PUHZ-SHW230 | | |
|  | |  | PUHZ-SW75/100AA |  | PUHZ-SW120 |
| | |  | PUHZ-SW160/200 | | |

Packaged Type Specifications

Indoor unit

<Cylinder unit (Heating only)>

| Model name | | | EHPT17X-VM2D | EHPT17X-VM6D | EHPT17X-VM9D | EHPT20X-MED | EHPT20X-VM6D | EHPT20X-VM9D | EHPT20X-VM9ED | EHPT20X-TM9D | EHPT20X-MHEDW | EHPT30X-MED | EHPT30X-VM9ED | | |
|---|--------------------------------------|-------------------------------|---|---|--------------|-----------------------------|--------------|--------------|---------------|--------------|---------------|-----------------------------|---------------|-----|--|
| Type | | | Heating only | | | | | | | | | | | | |
| | | | Immersion heater | | | | | | | | | | | | |
| | | | Expansion vessel | | | | | | | | | | | | |
| | | | Booster heater | | | | | | | | | | | | |
| Dimensions | | H×W×D | mm | 1400×595-680 | | | 1600×595×680 | | | | 2050×595×680 | | | | |
| Weight (empty) | | | kg | 86 | 87 | 89 | 87 | 94 | 96 | 90 | 96 | 94 | 106 | 110 | |
| Control board power supply (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 ~N, 230V, 50Hz ~N, 230V, 50Hz ~N, 230V, 50Hz | | | | | | | | | | | | |
| Heater | Booster heater*2 | Power supply (Phase / V / Hz) | | ~N, 230V, 50Hz ~N, 230V, 50Hz 3~, 400V, 50Hz ~N, 230V, 50Hz ~N, 230V, 50Hz 3~, 400V, 50Hz 3~, 400V, 50Hz 3~, 400V, 50Hz 3~, 400V, 50Hz ~N, 230V, 50Hz ~N, 230V, 50Hz 3~, 400V, 50Hz | | | | | | | | | | | |
| | | Capacity | kW | 2 | 2+4 | 3+6 | - | 2+4 | 3+6 | 3+6 | 3+6 | - | - | 3+6 | |
| | | Current | A | 9 | 26 | 13 | - | 26 | 13 | 13 | 23 | - | - | 13 | |
| | | Breaker size | A | 16 | 32 | 16 | - | 32 | 16 | 16 | 32 | - | - | 16 | |
| | Immersion heater | Power supply (Phase / V / Hz) | | - - - - - - - ~N, 230V, 50Hz - - | | | | | | | | | | | |
| | | Capacity | kW | - | - | - | - | - | - | - | - | 3 | - | - | |
| | | Current | A | - | - | - | - | - | - | - | - | 13 | - | - | |
| | | Breaker size | A | - | - | - | - | - | - | - | - | 16 | - | - | |
| Domestic hot water tank | Volume / Material | L / - | 170 / Stainless steel (Net) | | | 200 / Stainless steel (Net) | | | | | | 300 / Stainless steel (Net) | | | |
| Guaranteed operating range*1 | Ambient | °C | 0 - 35 (≤80%RH) | | | | | | | | | | | | |
| | Outdoor | Heating | °C See outdoor unit spec table | | | | | | | | | | | | |
| | | Cooling | °C - | | | | | | | | | | | | |
| Target temperature range | Heating | Room temperature | °C 10-30 | | | | | | | | | | | | |
| | | Flow temperature | °C 20-60 | | | | | | | | | | | | |
| | Cooling | Room temperature | °C - | | | | | | | | | | | | |
| | | Flow temperature | °C - | | | | | | | | | | | | |
| DHW tank performance | Max. hot water temperature | °C | 70 | | | *3 | 70 | | | | | *3 | 70 | | |
| | Water heater energy efficiency class | | A+ | | | | | | | | | | | | |
| Sound power level (PWL) | | 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.

<Cylinder unit (Reversible)>

| Model name | | | ERPT17X-VM2D | ERPT20X-MD | ERPT20X-VM2D | ERPT20X-VM6D | ERPT30X-VM2ED | ERPT30X-VM6ED | | |
|---|--------------------------------------|-------------------------------|---------------------|-------------------------------|-----------------------------|--------------|---------------|-----------------------------|--------------|--|
| | Type | | Heating and cooling | | | | | | | |
| | Immersion heater | | - | - | - | - | - | - | | |
| | Expansion vessel | | ✓ | ✓ | ✓ | ✓ | - | - | | |
| | Booster heater | | ✓ | - | ✓ | ✓ | ✓ | ✓ | | |
| Dimensions | | H×W×D | mm | | 1400×595×680 | | 1600×595×680 | | 2050×595×680 | |
| Weight (empty) | | | kg | 86 | 93 | 94 | 95 | 107 | 108 | |
| Control board power supply (Phase / V / Hz) | | | ~N, 230V, 50Hz | | | | | | | |
| Heater | Booster heater | Power supply (Phase / V / Hz) | | ~N, 230V, 50Hz | | - | | ~N, 230V, 50Hz | | |
| | | Capacity | kW | 2 | - | 2 | 2+4 | 2 | 2+4 | |
| | | Current | A | 9 | - | 9 | 26 | 9 | 26 | |
| | | Breaker size | A | 16 | - | 16 | 32 | 16 | 32 | |
| | Immersion heater*2 | Power supply (Phase / V / Hz) | | - | | - | | - | | |
| | | Capacity | kW | - | - | - | - | - | - | |
| | | Current | A | - | - | - | - | - | - | |
| | | Breaker size | A | - | - | - | - | - | - | |
| Domestic hot water tank | Volume / Material | | L / - | 170 / Stainless steel (Net) | 200 / Stainless steel (Net) | | | 300 / Stainless steel (Net) | | |
| Guaranteed operating range*1 | Ambient | °C | 0 - 35 (≤80%RH) | | | | | | | |
| | Outdoor | Heating | °C | See outdoor unit spec table | | | | | | |
| | | Cooling | °C | See outdoor unit spec table*4 | | | | | | |
| Target temperature range | Heating | Room temperature | °C | 10~30 | | | | | | |
| | | Flow temperature | °C | 20~60 | | | | | | |
| | Cooling | Room temperature | °C | - | | | | | | |
| | | Flow temperature | °C | 5~25 | | | | | | |
| DHW tank performance | Max. hot water temperature | | °C | 70 | *3 | 70 | | | | |
| | Water heater emergy efficiency class | | | A+ | | | A | | | |
| Sound power level (PWL) | | | 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.

*4 During cooling operation at low outdoor temperature (10°C or lower), frozen water may cause damage on plate heat exchanger.

Packaged Type Specifications

<Hydrobox (Heating only)>

| Model name | | | EHPX-MED | EHPX-VM2D | EHPX-VM6D | EHPX-YM9D | EHPX-YM9ED | |
|---|------------------|-------------------------------|--------------------------------|----------------|-----------|----------------|------------|-----|
| | Type | | Heating only | | | | | |
| | Immersion heater | | - | - | - | - | - | |
| | Expansion vessel | | - | ✓ | ✓ | ✓ | - | |
| | Booster heater | | - | ✓ | ✓ | ✓ | ✓ | |
| Dimensions | | H×W×D | mm 800×530×360 | | | | | |
| Weight (empty) | | kg | 25 | 32 | 33 | 33 | 28 | |
| Control board power supply (Phase / V / Hz) | | | ~N, 230V, 50Hz | | | | | |
| Heater | Booster heater | Power supply (Phase / V / Hz) | - | ~N, 230V, 50Hz | | 3~, 400V, 50Hz | | |
| | | Capacity | kW | - | 2 | 2+4 | 3+6 | 3+6 |
| | | Current | A | - | 9 | 26 | 13 | 13 |
| | | Breaker size | A | - | 16 | 32 | 16 | 16 |
| Guaranteed operating range*1 | Ambient | °C | 0-35 (≤80%RH) | | | | | |
| | Outdoor | Heating | °C See outdoor unit spec table | | | | | |
| | | Cooling | °C - | | | | | |
| Target temperature range | Heating | Room temperature | °C 10-30 | | | | | |
| | | Flow temperature | °C 20-60 | | | | | |
| | Cooling | Room temperature | °C - | | | | | |
| | | Flow temperature | °C - | | | | | |
| Sound power level (PWL) | | | dB (A) | | 40 | | | |

*1 The indoor environment must be frost-free.

<Hydrobox (Reversible)>

| Model name | | | ERPX-MD | ERPX-VM2D | ERPX-VM6D | ERPX-YM9D | |
|---|------------------|-------------------------------|-----------------------------------|----------------|-----------|----------------|-----|
| | Type | | Heating and cooling | | | | |
| | Immersion heater | | — | — | — | — | |
| | Expansion vessel | | ✓ | ✓ | ✓ | ✓ | |
| | Booster heater | | — | ✓ | ✓ | ✓ | |
| Dimensions | | H×W×D | mm | 800×530×360 | | | |
| Weight (empty) | | | kg | 30 | 33 | 34 | 35 |
| Control board power supply (Phase / V / Hz) | | | ~N, 230V, 50Hz | | | | |
| Heater | Booster heater | Power supply (Phase / V / Hz) | — | ~N, 230V, 50Hz | | 3~, 400V, 50Hz | |
| | | Capacity | kW | — | 2 | 2+4 | 3+6 |
| | | Current | A | — | 9 | 26 | 13 |
| | | Breaker size | A | — | 16 | 32 | 16 |
| Guaranteed operating range*1 | Ambient | | °C 0~35 (≤80%RH) | | | | |
| | Outdoor | Heating | °C See outdoor unit spec table | | | | |
| | | Cooling | °C See outdoor unit spec table *2 | | | | |
| Target temperature range | Heating | Room temperature | °C 10~30 | | | | |
| | | Flow temperature | °C 20~60 | | | | |
| | Cooling | Room temperature | °C — | | | | |
| | | Flow temperature | °C — | | | | |
| Sound power level (PWL) | | | dB (A) | | 40 | | |

*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.

Packaged type

Small capacity (Under 5kW)*

Medium capacity (6.0kW-14kW)*



PUZ-HWM140

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

Packaged type

Small capacity (Under 5kW)*

Medium capacity (6.0kW-11.2kW)*



PUZ-WM50



PUHZ-WM60/85/112

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

Outdoor unit

| Model name | | | PUZ- WM50VHA | PUZ- WM60VAA | PUZ- WM85V/YAA | PUZ- WM112V/YAA | PUZ- HWM140V/YHA | |
|--|----------|------------|--|-----------------|-------------------|--------------------|---------------------|------------|
| Refrigerant | | | R32*1 | | | | | |
| Dimensions | HxWxD | mm | 943x950x330 | 1020x1050x480 | 1020x1050x480 | 1020x1050x480 | 1350x1020x330 | |
| Weight | | kg | 71 | 98 | 98/111 | 119/132 | 132/143 | |
| Power supply (V / Phase / Hz) | | | VHA + VAA: 230 / 1-ph / 50, YHA + YAA: 400 / 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 climate water outlet 35°C*3 | | Class | A+++ | A+++ | A+++ | A+++ | A+++ | |
| | | ηs | 183 | 190 | 193/190 | 191/189 | 176/175 | |
| Average climate water outlet 55°C*3 | | Class | A++ | A++ | A++ | A++ | A++ | |
| | | ηs | 129 | 142 | 139/138 | 134/133 | 132/131 | |
| DHW 200L(L) Load Profile (Average climate)*4 | | Class | A+ | A+ | A+ | A+ | A+ | |
| | | ηwh | 135 | 145 | 145 | 148 | 130 | |
| Max outlet water temperature (°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)*5 | | | dB(A) | 61 | 58 | 58 | 60 | 67 |
| Max operating current | | | A | 13.0 | 13.0 | 22.0/11.5 | 28.0/13.0 | 35.0/13.0 |
| Breaker size | | | A | 16 | 16 | 25/16 | 32/16 | 40/16 |
| Piping | Diameter | Liquid/Gas | mm | — | — | — | — | — |
| | Length | Out-In | m | — | — | — | — | — |
| | Height | Out-In | m | — | — | — | — | — |
| Guaranteed Operating Range | Heating | | °C | ~20°C~21°C | ~20°C~21°C | ~20°C~21°C | ~25°C~21°C | ~28°C~21°C |
| | DHW | | °C | ~20°C~35°C | ~20°C~35°C | ~20°C~35°C | ~25°C~35°C | ~28°C~35°C |
| | 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 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 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 ηs values are measured based on EN14825.

*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 | ✓ | ✓ | |
| Wireless receiver | PAR-WR51R-E | ✓ | ✓ | |
| Thermistors | PAC-SE41TS-E | ✓ | ✓ | For room temp. |
| | PAC-TH011-E | ✓ | ✓ | For buffer and zone (flow and return temp.) |
| | PAC-TH011TK2-E | - | ✓ | For tank temp. (5m) |
| | PAC-TH011TKL2-E | - | ✓ | For tank temp. (30m) |
| | PAC-TH012HT-E | ✓ | ✓ | For boiler and buffer (5m) |
| | PAC-TH012HTL-E | ✓ | ✓ | For boiler and buffer (30m) |
| Immersion heater | PAC-IH01V2-E | ✓ | - | 1Ph 1kW |
| | PAC-IH03V2-E | ✓ | - | 1Ph 3kW |
| Joint pipe | PAC-SG72RJ-E | ✓ | ✓ | For PUHZ-SW75 ø6.35 → ø9.52 |
| | PAC-SG73RJ-E | - | ✓ | For PUHZ-SW200YKA/SHW230YKA2 ø9.52 → ø12.7 |
| | PAC-SG74RJ-E | ✓ | ✓ | For PUHZ-SW75 ø12.7 → ø15.88 |
| | PAC-SH30RJ-E | ✓ | ✓ | For PUHZ-SW75AA ø9.52 → 6.35 |
| | PAC-SH50RJ-E | ✓ | ✓ | For PUHZ-SW75AA ø15.88 → 12.7 |
| Wi-Fi interface | MAC-567IF-E | ✓ | ✓ | |
| 2 Zone kit | PAC-TZ02-E | ✓ | ✓ | |
| Expansion vessel | PAC-EVP12-E1 | ✓ | - | 12L |

<Outdoor unit>

| Parts name | Model name | R32 (Eco Inverter) | | | R32 Heating only (Power Inverter) | | | | R32 Heating only (ZUBADAN) | | | | |
|---|----------------|--------------------|-------------|-------------|-----------------------------------|---------------|----------------|----------------|----------------------------|----------------|-----------------|-----------------|-----------------|
| | | SUZ-SWM40VA | SUZ-SWM60VA | SUZ-SWM80VA | PUD-SWM60VAA | PUD-SWM80VYAA | PUD-SWM100VYAA | PUD-SWM120VYAA | PUD-SHWM60VAA | PUD-SHWM80VYAA | PUD-SHWM100VYAA | PUD-SHWM120VYAA | PUD-SHWM140VYAA |
| Connector for drain hose heater signal output | PAC-SE60RA-E | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Air discharge guide | MAC-886SG-E | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| | PAC-SG59SG-E | - | - | - | - | - | - | - | - | - | - | - | - |
| | PAC-SH96SG-E*1 | - | - | - | ✓*1 | ✓*1 | ✓*1 | ✓*1 | ✓*1 | ✓*1 | ✓*1 | ✓*1 | ✓*1 |
| Air protection guide | PAC-SH63AG-E | - | - | - | - | - | - | - | - | - | - | - | - |
| | PAC-SH95AG-E*1 | - | - | - | ✓*1 | ✓*1 | ✓*1 | ✓*1 | ✓*1 | ✓*1 | ✓*1 | ✓*1 | ✓*1 |
| Attachement | PAC-SJ82AT-E | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Drain socket*2 | PAC-SG61DS-E | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Centralized drain pan*2 | PAC-SG64DP-E | - | - | - | - | - | - | - | - | - | - | - | - |
| | PAC-SH97DP-E | - | - | - | - | - | - | - | - | - | - | - | - |
| | PAC-SJ83DP-E | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Base heater | MAC-642BH-U1 | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| Control/Service tool | PAC-SK52ST | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

*1 Attachment (PAC-SJ82AT-E) is necessary for the Air guide

*2 Cannot be used for cold climate.

| Parts name | Model name | R410A (Power Inverter) | | | | | R410A (ZUBADAN) | | | | |
|---|--------------|------------------------|----------------|----------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|--|
| | | PUHZ-SW75VYAA | PUHZ-SW100VYAA | PUHZ-SW120VYHA | PUHZ-SW160YKA | PUHZ-SW200YKA | PUHZ-SHW80VYAA | PUHZ-SHW112VYAA | PUHZ-SHW140YHA | PUHZ-SHW230YKA2 | |
| Connector for drain hose heater signal output | PAC-SE60RA-E | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Air discharge guide | MAC-886SG-E | - | - | - | - | - | - | - | - | - | |
| | PAC-SG59SG-E | - | - | ✓ | - | - | - | - | ✓ | - | |
| | PAC-SH96SG-E | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | ✓ | |
| Air protection guide | PAC-SH63AG-E | - | - | ✓ | - | - | - | - | ✓ | - | |
| | PAC-SH95AG-E | ✓ | ✓ | - | ✓ | ✓ | ✓ | ✓ | - | ✓ | |
| Attachement | PAC-SJ82AT-E | ✓ | ✓ | - | - | - | ✓ | ✓ | - | ✓ | |
| Drain socket*2 | PAC-SG61DS-E | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | |
| Centralized drain pan*2 | PAC-SG64DP-E | - | - | ✓ | - | - | - | - | - | - | |
| | PAC-SH97DP-E | - | - | - | ✓ | ✓ | - | - | - | - | |
| | PAC-SJ83DP-E | ✓ | ✓ | - | - | - | ✓ | ✓ | - | - | |
| Base heater | MAC-642BH-U1 | - | - | - | - | - | - | - | - | - | |
| Control/Service tool | PAC-SK52ST | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

*1 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 | ✓ | ✓ | |
| Wireless receiver | PAR-WR51R-E | ✓ | ✓ | |
| Thermistors | PAC-SE41TS-E | ✓ | ✓ | For room temp. |
| | PAC-TH011-E | ✓ | ✓ | For buffer and zone (flow and return temp.) |
| | PAC-TH011TK2-E | – | ✓ | For tank temp. (5m) |
| | PAC-TH011TKL2-E | – | ✓ | For tank temp. (30m) |
| | PAC-TH012HT-E | ✓ | ✓ | For boiler and buffer (5m) |
| | PAC-TH012HTL-E | ✓ | ✓ | 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 | ✓ | – | |
| Wi-Fi interface | MAC-567IF-E | ✓ | ✓ | |
| 2 Zone kit | PAC-TZ02-E | ✓ | ✓ | |
| Expansion vessel | PAC-EVP12-E1 | ✓ | – | 12L |

<Outdoor unit>

| Parts name | Model name | R32 (Power Inverter) | | | | |
|---|--------------|----------------------|-------------|---------------|----------------|-----------------|
| | | PUZ-WM50VHA | PUZ-WM60VAA | PUZ-WM85V/YAA | PUZ-WM112V/YAA | PUZ-HWM140V/YHA |
| Connector for drain hose heater signal output | PAC-SE60RA-E | ✓ | ✓ | ✓ | ✓ | ✓ |
| Air discharge guide | PAC-SG59SG-E | ✓ | – | – | – | ✓ |
| | PAC-SH96SG-E | – | ✓* | ✓* | ✓* | – |
| Air protection guide | PAC-SH63AG-E | ✓ | – | – | – | ✓ |
| | PAC-SH95AG-E | – | ✓* | ✓* | ✓* | – |
| Attachment | PAC-SJ82AT-E | – | ✓ | ✓ | ✓ | – |
| Drain socket | PAC-SG61DS-E | ✓ | ✓ | ✓ | ✓ | – |
| Centralized drain pan | PAC-SG64DP-E | ✓ | – | – | – | – |
| | PAC-SJ83DP-E | – | ✓ | ✓ | ✓ | – |

*Attachment (PAC-SJ82AT-E) is necessary for the Air Guide.



Ground Source Heat Pump Specifications

Specification with 38% propylene glycol

| | | | | |
|------------------------------------|-----------------|-------------------------------|-------------------------|---------------|
| Model name | | | EHGT17D-YM9ED | |
| Heating Capacity (Min-Max) | | | 2.5-10.0kW | |
| Heat Output B0/W35 (Rated) | | | 5.0kW | |
| COP B0/W35 | | | 4.58 | |
| SCOP (Average Climate) | Low Temp | | 5.27 | |
| | | Rank | A+++ | |
| | | η_s^{*2} | 203% | |
| | Mid Temp | | 3.96 | |
| | | Rank | A+++ | |
| η_s^{*2} | | 150% | | |
| L Load Profile (Average Climate)*3 | η_{wh} | 134% | | |
| | Rank | A+ | | |
| Sound Power Level (Rated)*4 | | | 42dB(A) | |
| Refrigerant /Amount | | | R32*1/0.9kg | |
| GWP | | | 608 | |
| Dimensions (HxWxD) | | | 1,750mm×595mm×680mm | |
| DHW Tank | | | 170L (Net) | |
| Weight | | | Unit 181kg | |
| Electrical 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 prevention | | 60~70°C |
| Guaranteed operating range | | Ambient | | 0~35°C |
| | | | | ≤80%RH |
| | | Water outlet temperature | | 20~60°C |
| | | Brine inlet temperature | | -8~30°C |
| | | Min. brine outlet temperature | | -12°C |
| Flow rate range | Primary circuit | Max. | 27.7L/min | |
| | | Min. | 7.1L/min | |
| | Brine circuit | Max. | 27.7L/min | |
| | | Min. | 7.1L/min | |
| Heat source fluid type | | | 29 WT% Bioethanol | |
| | | | 38 WT% Propylene glycol | |
| | | | 25 WT% Ethylene glycol | |

*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 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 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 η_{gs} values are measured based on EN14825. *3 η_{wh} values are measured based on EN16147. *4 Sound power levels are measured based on EN12102.

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 | |

D Generation

Combination Table

Split Indoor/outdoor unit

| Split indoor/outdoor unit combination | | R32 | | | | | | | | R410A | | | | ATA/ATW Hybrid system | | | | |
|---------------------------------------|---------------|----------------|-------------|-------------|--------------|---------------|----------------|----------------|--------------|----------------|----------------|----------------|----------------|-----------------------|------|----------------|----------------|---|
| | | Power inverter | | | | ZUBADAN | | | | Power inverter | | ZUBADAN | | Mr. SLIM+ | PUMY | | | |
| | | SUZ-SWM40VA | SUZ-SWM60VA | SUZ-SWM80VA | PUD-SWM60VAA | PUD-SWM80VYAA | PUD-SWM100VYAA | PUD-SWM120VYAA | PUD-SWM60VAA | PUD-SWM80VYAA | PUD-SWM100VYAA | PUD-SWM120VYAA | PUD-SWM140VYAA | | | PUD-SWM100VYAA | PUD-SWM120VYAA | |
| Heating only Cylinder | EHST17D-VM2D | ● | ● | ● | ● | ● | | | ● | ● | | | ● | | | | | |
| | EHST17D-YM9D | ● | ● | ● | ● | ● | | | ● | ● | | | ● | | | | | |
| | EHST20D-MED | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHST20D-VM2D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHST20D-VM6D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHST20D-YM9D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHST20D-YM9ED | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHST20D-TM9D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHST30D-MED | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHST30D-VM6ED | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHST30D-YM9ED | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHST30D-TM9ED | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHST20C-MED | | | | | | | | | | | | | ● | ● | | | |
| | EHST20C-VM2D | | | | | | | | | | | | | ● | ● | | ● | ● |
| | EHST20C-VM6D | | | | | | | | | | | | | ● | ● | | ● | ● |
| | EHST20C-YM9D | | | | | | | | | | | | | ● | ● | | ● | ● |
| | EHST20C-YM9ED | | | | | | | | | | | | | ● | ● | | ● | ● |
| | EHST20C-TM9D | | | | | | | | | | | | | ● | ● | | ● | ● |
| | EHST30C-MED | | | | | | | | | | | | | ● | ● | | ● | ● |
| | EHST30C-VM6ED | | | | | | | | | | | | | ● | ● | | ● | ● |
| | EHST30C-YM9ED | | | | | | | | | | | | | ● | ● | | ● | ● |
| EHST30C-TM9ED | | | | | | | | | | | | | ● | ● | | ● | ● | |
| Reversible Cylinder | ERST17D-VM2D | ● | ● | ● | ● | ● | | | ● | ● | | | ● | | | | | |
| | ERST17D-VM2BD | ● | ● | ● | ● | ● | | | ● | ● | | | ● | | | | | |
| | ERST17D-VM6D | ● | ● | ● | ● | ● | | | ● | ● | | | ● | | | | | |
| | ERST17D-VM6BD | ● | ● | ● | ● | ● | | | ● | ● | | | ● | | | | | |
| | ERST17D-YM9BD | ● | ● | ● | ● | ● | | | ● | ● | | | ● | | | | | |
| | ERST20D-VM2D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | ERST20D-VM6D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | ERST20D-YM9D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | ERST30D-VM2ED | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | ERST30D-VM6ED | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | ERST30D-YM9ED | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | ERST20C-VM2D | | | | | | | | | | | | | ● | ● | | ● | ● |
| | ERST20C-VM6D | | | | | | | | | | | | | ● | ● | | ● | ● |
| | ERST20C-YM9D | | | | | | | | | | | | | ● | ● | | ● | ● |
| | ERST30C-VM2ED | | | | | | | | | | | | | ● | ● | | ● | ● |
| | ERST30C-VM6ED | | | | | | | | | | | | | ● | ● | | ● | ● |
| | ERST30C-YM9ED | | | | | | | | | | | | | ● | ● | | ● | ● |
| Heating only Hydrobox | EHSD-MED | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHSD-VM2D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHSD-VM6D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHSD-YM9D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHSD-YM9ED | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHSD-TM9D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | EHSC-MED | | | | | | | | | | | | | ● | ● | | | |
| | EHSC-VM2D | | | | | | | | | | | | | ● | ● | | ● | ● |
| | EHSC-VM6D | | | | | | | | | | | | | ● | ● | | ● | ● |
| | EHSC-YM9D | | | | | | | | | | | | | ● | ● | | ● | ● |
| | EHSC-YM9ED | | | | | | | | | | | | | ● | ● | | ● | ● |
| | EHSC-TM9D | | | | | | | | | | | | | ● | ● | | ● | ● |
| | EHSE-MED | | | | | | | | | | | | | | ● | ● | | |
| | EHSE-YM9ED | | | | | | | | | | | | | | ● | ● | | |
| Reversible Hydrobox | ERSD-MED | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | ERSD-VM2D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | ERSD-VM6D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | ERSD-YM9D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | ERSC-MED | | | | | | | | | | | | | ● | ● | | | |
| | ERSC-VM2D | | | | | | | | | | | | | ● | ● | | ● | ● |
| | ERSC-VM6D | | | | | | | | | | | | | ● | ● | | ● | ● |
| | ERSC-YM9D | | | | | | | | | | | | | ● | ● | | ● | ● |
| | ERSE-MED | | | | | | | | | | | | | | ● | ● | | |
| | ERSE-YM9ED | | | | | | | | | | | | | | ● | ● | | |

Packaged indoor/outdoor unit

| Packaged indoor/outdoor unit combination | | R32 | | | | |
|--|---------------|----------------|---|---------|---|---|
| | | Power inverter | | ZUBADAN | | |
| Heating only Cylinder | EHPT17X-VM2D | ● | ● | ● | | |
| | EHPT17X-VM6D | ● | ● | ● | | |
| | EHPT17X-YM9D | ● | ● | ● | | |
| | EHPT20X-MED | ● | ● | ● | ● | ● |
| | EHPT20X-VM6D | ● | ● | ● | ● | ● |
| | EHPT20X-YM9D | ● | ● | ● | ● | ● |
| | EHPT20X-YM9ED | ● | ● | ● | ● | ● |
| | EHPT20X-TM9D | ● | ● | ● | ● | ● |
| | EHPT20X-MHEDW | ● | ● | ● | ● | ● |
| | EHPT30X-MED | | | ● | ● | ● |
| | EHPT30X-YM9ED | | | ● | ● | ● |
| Reversible Cylinder | ERPT17X-VM2D | ● | ● | ● | | |
| | ERPT20X-VM2D | ● | ● | ● | ● | ● |
| | ERPT20X-MD | ● | ● | ● | ● | ● |
| | ERPT20X-VM6D | ● | ● | ● | ● | ● |
| | ERPT30X-VM2ED | | | ● | ● | ● |
| Heating only Hydrobox | ERPT30X-VM6ED | | | ● | ● | ● |
| | EHPX-VM2D | ● | ● | ● | ● | ● |
| | EHPX-VM6D | ● | ● | ● | ● | ● |
| | EHPX-YM9D | ● | ● | ● | ● | ● |
| | EHPX-MED | ● | ● | ● | ● | ● |
| Reversible Hydrobox | EHPX-YM9ED | ● | ● | ● | ● | ● |
| | ERPX-MD | ● | ● | ● | ● | ● |
| | ERPX-VM2D | ● | ● | ● | ● | ● |
| | ERPX-VM6D | ● | ● | ● | ● | ● |

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
- 5 Check energy usage report* *Additional metering hardware is required.



All A++ or Above!!

| Outdoor unit | Indoor unit | For medium-temperature application | | | | | | | For low-temperature application | | | | | | |
|----------------------|--------------|--|---------------------------------------|--|---|--|--|---|--|---------------------------------------|--|---|--|--|---|
| | | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Sound power level L _{WA} indoor | Sound power level L _{WA} outdoor | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Sound power level L _{WA} indoor | Sound power level L _{WA} 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+ | 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+ | 6.6 | 187 | 144 | 41 | 60 |
| | EHST20D-***D | A++ | A+ | 6.0 | 130 | 148 | 41 | 60 | A+++ | A+ | 6.6 | 181 | 148 | 41 | 60 |
| | ERST20D-***D | A++ | A+ | 6.0 | 133 | 148 | 41 | 60 | A+++ | A+ | 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+ | 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++ | A | 6.0 | 130 | 121 | 41 | 55 | A+++ | A | 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+ | 8.0 | 178/176 | 148 | 41 | 56 |
| | E*ST30D-***D | A++ | A | 8.0 | 131/130 | 121 | 41 | 56 | A+++ | A | 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++ | A | 10.0 | 131/130 | 121 | 41 | 59 | A+++ | A | 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++ | A | 12.0 | 129/128 | 121 | 41 | 60 | A+++ | A | 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++ | A | 6.0 | 134 | 121 | 41 | 55 | A+++ | A | 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+ | 8.0 | 181/179 | 136 | 41 | 56 |
| | E*ST20D-***D | A++ | A+ | 8.0 | 135/134 | 148 | 41 | 56 | A+++ | A+ | 8.0 | 181/179 | 148 | 41 | 56 |
| | E*ST30D-***D | A++ | A | 8.0 | 135/134 | 121 | 41 | 56 | A+++ | A | 8.0 | 181/179 | 121 | 41 | 56 |
| | E*SD-***D | A++ | – | 8.0 | 135/134 | – | 41 | 56 | A+++ | – | 8.0 | 181/179 | – | 41 | 56 |

Note: E**T17/20*-***D use "Load profile L".
E**T30*-***D use "Load profile XL".

| Outdoor unit | Indoor unit | For medium-temperature application | | | | | | | For low-temperature application | | | | | | |
|-----------------------|--------------|--|---------------------------------------|--|---|--|------------------------------|-------------------------------|--|---------------------------------------|--|---|--|------------------------------|-------------------------------|
| | | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Sound power level Lwa indoor | Sound power level Lwa outdoor | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Sound power level Lwa indoor | Sound power level Lwa outdoor |
| | | | | | | | | | | | | | | | |
| | | | | kW | % | % | dB | dB | | | kW | % | % | dB | dB |
| PUD-SHWM100V/YAA(-BS) | E*ST20D-***D | A++ | A+ | 10.0 | 136/135 | 148 | 41 | 59 | A+++ | A+ | 10.0 | 180/178 | 148 | 41 | 59 |
| | E*ST30D-***D | A++ | A | 10.0 | 136/135 | 121 | 41 | 59 | A+++ | A | 10.0 | 180/178 | 121 | 41 | 59 |
| | E*SD-***D | A++ | - | 10.0 | 136/135 | - | 41 | 59 | A+++ | - | 10.0 | 180/178 | - | 41 | 59 |
| 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 |
| | E*ST30D-***D | A++ | A | 12.0 | 135/134 | 121 | 41 | 60 | A+++ | A | 12.0 | 179/177 | 121 | 41 | 60 |
| | E*SD-***D | A++ | - | 12.0 | 135/134 | - | 41 | 60 | A+++ | - | 12.0 | 179/177 | - | 41 | 60 |
| 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*ST30D-***D | A++ | A | 14.0 | 134/134 | 121 | 41 | 62 | A+++ | A | 14.0 | 179/177 | 121 | 41 | 62 |
| | E*SD-***D | A++ | - | 14.0 | 134/134 | - | 41 | 62 | A+++ | - | 14.0 | 179/177 | - | 41 | 62 |
| PUHZ-SW75V/YAA(-BS) | EHST17D-***D | A++ | A+ | 7.1 | 129/128 | 136 | 41 | 58 | A++ | A+ | 7.2 | 162/160 | 136 | 41 | 58 |
| | ERST17D-***D | A++ | A+ | 7.1 | 132/132 | 136 | 41 | 58 | A++ | A+ | 7.2 | 166/165 | 136 | 41 | 58 |
| | EHST20D-***D | A++ | A+ | 7.1 | 129/128 | 145 | 41 | 58 | A++ | A+ | 7.2 | 162/160 | 145 | 41 | 58 |
| | ERST20D-***D | A++ | A+ | 7.1 | 132/132 | 145 | 41 | 58 | A++ | A+ | 7.2 | 166/165 | 145 | 41 | 58 |
| | EHST30D-***D | A++ | A | 7.1 | 129/128 | 120 | 41 | 58 | A++ | A | 7.2 | 162/160 | 120 | 41 | 58 |
| | ERST30D-***D | A++ | A | 7.1 | 132/132 | 120 | 41 | 58 | A++ | A | 7.2 | 166/165 | 120 | 41 | 58 |
| | EHSD-***D | A++ | - | 7.1 | 129/128 | - | 41 | 58 | A++ | - | 7.2 | 162/160 | - | 41 | 58 |
| | ERSD-***D | A++ | - | 7.1 | 132/132 | - | 41 | 58 | A++ | - | 7.2 | 166/165 | - | 41 | 58 |
| PUHZ-SW100V/YAA(-BS) | EHST20C-***D | A++ | A+ | 10.0 | 130/129 | 145 | 40 | 60 | A++ | A+ | 10.6 | 167/165 | 145 | 40 | 60 |
| | ERST20C-***D | A++ | A+ | 10.0 | 132/132 | 145 | 40 | 60 | A++ | A+ | 10.6 | 170/169 | 145 | 40 | 60 |
| | EHST30C-***D | A++ | A | 10.0 | 130/129 | 120 | 40 | 60 | A++ | A | 10.6 | 167/165 | 120 | 40 | 60 |
| | ERST30C-***D | A++ | A | 10.0 | 132/132 | 120 | 40 | 60 | A++ | A | 10.6 | 170/169 | 120 | 40 | 60 |
| | EHSC-***D | A++ | - | 10.0 | 130/129 | - | 40 | 60 | A++ | - | 10.6 | 167/165 | - | 40 | 60 |
| | ERSC-***D | A++ | - | 10.0 | 132/132 | - | 40 | 60 | A++ | - | 10.6 | 170/169 | - | 40 | 60 |
| PUHZ-SW120V/YAA(-BS) | EHST20C-***D | A++ | A+ | 12.1 | 125/125 | 138 | 40 | 72 | A++ | A+ | 12.9 | 162/162 | 138 | 40 | 72 |
| | ERST20C-***D | A++ | A+ | 12.1 | 127/127 | 138 | 40 | 72 | A++ | A+ | 12.9 | 164/164 | 138 | 40 | 72 |
| | 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++ | - | 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 | 164/164 | - | 40 | 72 |
| PUHZ-SW160YKA(-BS) | EHSE-***D | A++ | - | 13.5 | 125 | - | 45 | 78 | A++ | - | 15.3 | 151 | - | 45 | 78 |
| | 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 |
| | 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 | 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 | 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 | 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 |
| | ERSC-***D | A++ | - | 12.7 | 137/137 | - | 40 | 60 | A++ | - | 13.9 | 173/173 | - | 40 | 60 |

All A++ or Above!!

| Outdoor unit | Indoor unit | For medium-temperature application | | | | | | | For low-temperature application | | | | | | |
|----------------------------|-----------------|--|---------------------------------------|--|---|--|--|---|--|---------------------------------------|--|---|--|--|---|
| | | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Sound power level L _{wa} indoor | Sound power level L _{wa} outdoor | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Sound power level L _{wa} indoor | Sound power level L _{wa} 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++ | A | 15.8 | 127 | 118 | 40 | 70 | A++ | A | 17.0 | 163 | 118 | 40 | 70 |
| | ERST30C-***D | A++ | A | 15.8 | 128 | 118 | 40 | 70 | A++ | A | 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+ | 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+ | 6.0 | 190 | 145 | 40 | 58 |
| | ERPT20X-***D(W) | A++ | A+ | 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+ | 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++ | A | 8.5 | 139/138 | 120 | 40 | 58 | A+++ | A | 8.5 | 193/190 | 120 | 40 | 58 |
| | ERPT30X-***D(W) | A++ | A | 8.5 | 141/141 | 120 | 40 | 58 | A+++ | A | 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+ | 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++ | A | 10.0 | 134/133 | 120 | 40 | 60 | A+++ | A | 10.0 | 191/189 | 120 | 40 | 60 |
| | ERPT30X-***D(W) | A++ | A | 10.0 | 136/136 | 120 | 40 | 60 | A+++ | A | 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+ | 14.0 | 178/177 | 130 | 40 | 67 |
| | EHPT30X-***D(W) | A++ | A | 14.0 | 132/131 | 118 | 40 | 67 | A+++ | A | 14.0 | 176/175 | 118 | 40 | 67 |
| | ERPT30X-***D(W) | A++ | A | 14.0 | 133/133 | 118 | 40 | 67 | A+++ | A | 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+ | A | 11.2 | 121/121 | 106 | 40 | 69 | A++ | A | 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+ | A | 11.2 | 121/121 | 106 | 40 | 69 | A++ | A | 11.2 | 168/168 | 106 | 40 | 69 |
| | EHSC-***D | A+ | – | 11.2 | 121/121 | – | 40 | 69 | A++ | – | 11.2 | 168/168 | – | 40 | 69 |
| PUMY-P140VKM5/YKM(E)4(-BS) | EHST20C-***D | A+ | A | 11.2 | 121/121 | 106 | 40 | 69 | A++ | A | 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 on 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.

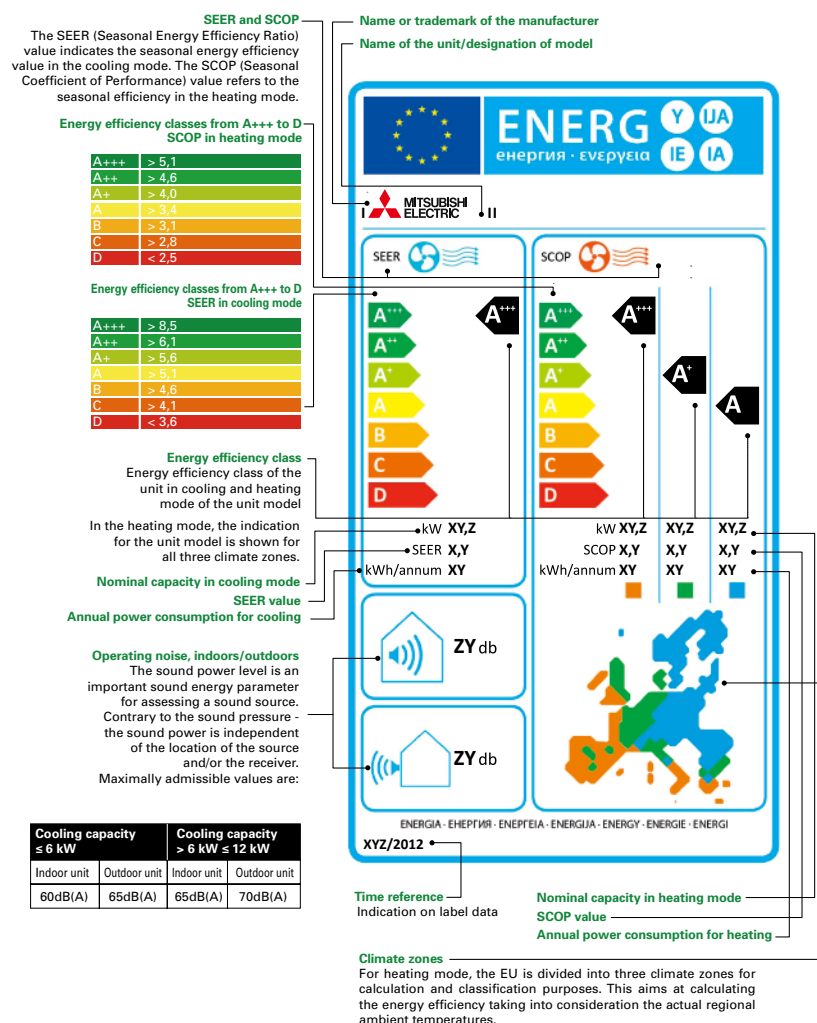
NEW ENERGY LABEL AND MEASUREMENTS

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.

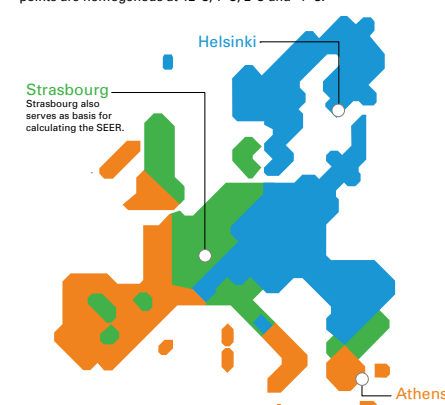
Specifically, for cooling mode, air conditioning systems must achieve at least class B. For heating mode, air conditioning systems must achieve at least a SCOP value of 3.8.

■ New Energy Efficiency Label



■ 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 and -7°C.



| Warm (Athens) | | | |
|---------------|------------------------|------|---------|
| Partial load | Temperature conditions | | Indoors |
| | Outdoors | WB | |
| – | DB | WB | DB |
| 100% | 2°C | 1°C | 20°C |
| 64% | 7°C | 6°C | 20°C |
| 29% | 12°C | 11°C | 20°C |

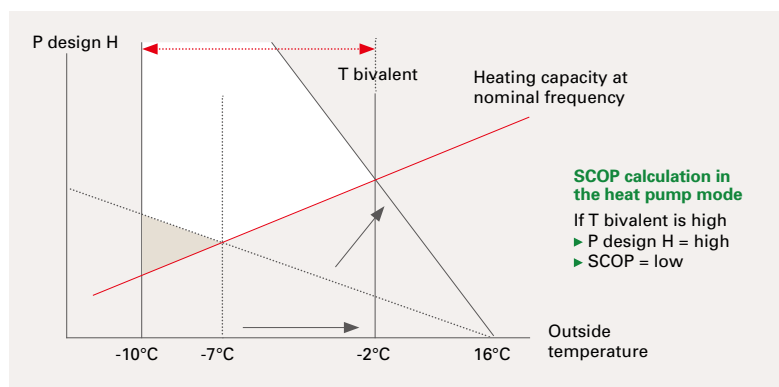
| Moderate (Strasbourg) | | | |
|-----------------------|------------------------|------|---------|
| Partial load | Temperature conditions | | Indoors |
| | Outdoors | WB | |
| 88% | DB | WB | DB |
| 54% | –7°C | –8°C | 20°C |
| 35% | 2°C | 1°C | 20°C |
| 15% | 7°C | 6°C | 20°C |
| | 12°C | 11°C | 20°C |

| Cold (Helsinki) | | | |
|-----------------|------------------------|------|---------|
| Partial load | Temperature conditions | | Indoors |
| | Outdoors | WB | |
| 61% | DB | WB | DB |
| 37% | –7°C | –8°C | 20°C |
| 24% | 2°C | 1°C | 20°C |
| 11% | 7°C | 6°C | 20°C |
| | 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.

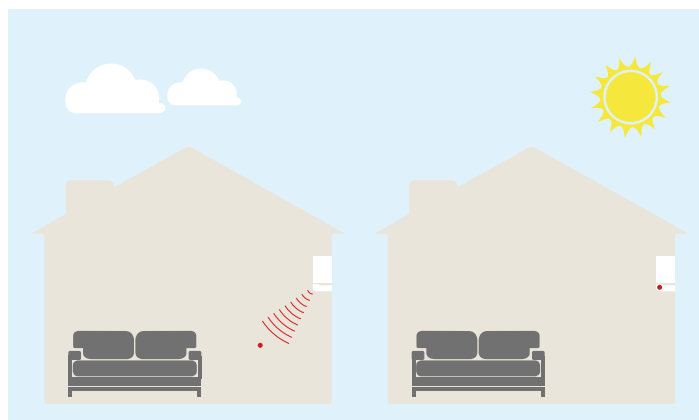
T design: Outside temperature which determines the P design H point. The latter is determined from the area conditions.

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 1 m 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 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.

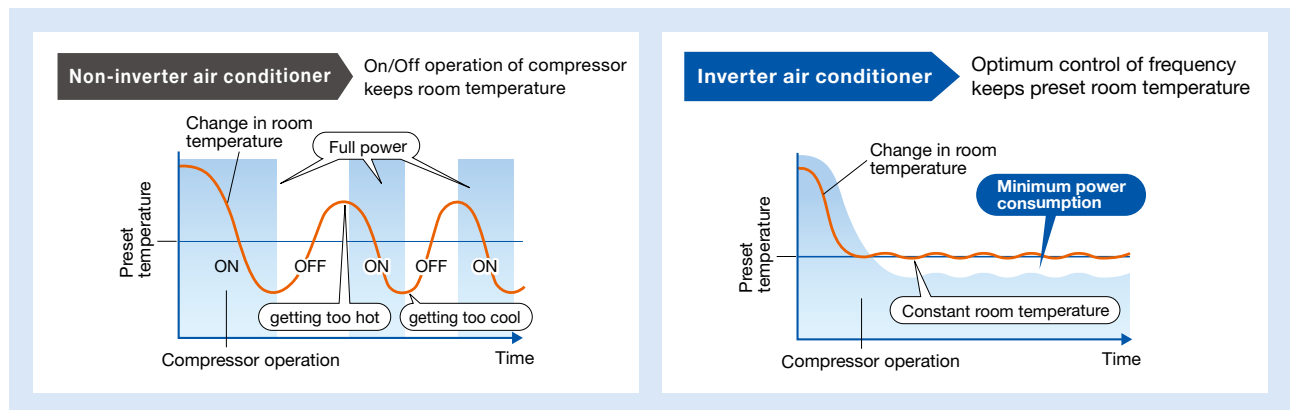
ECONOMIC OPERATION

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 high-density, high-magnetic force, leading to extremely high efficiency and reliability.



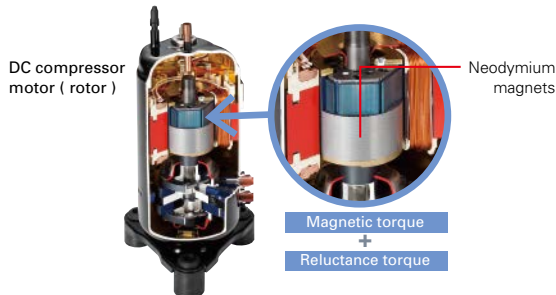
Magnetic Flux Vector Sine Wave Drive

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.



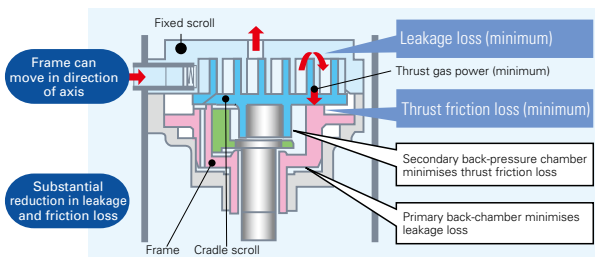
Reluctance DC Rotary Compressor

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.

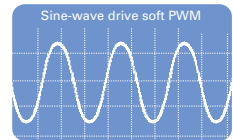


Vector-Wave Eco Inverter

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.

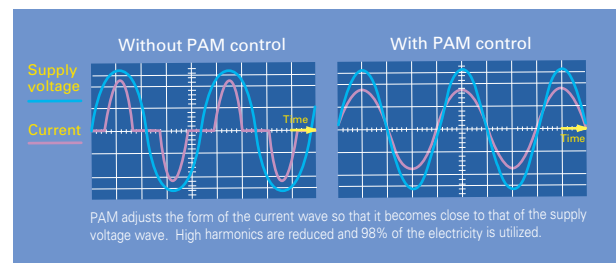
Smooth wave pattern

Inverter size has been reduced using insert-molding, 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 (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.



Merits of PAM Control

Significant energy savings
Remarkable reduction in power loss saves electricity

Limited energy savings
Electricity is wasted

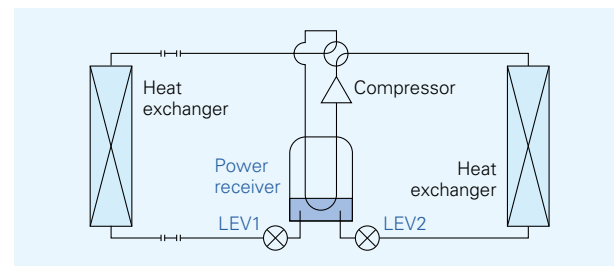
Power increased
Efficient voltage increase realises increased power

Limited power
Insufficient power when needed



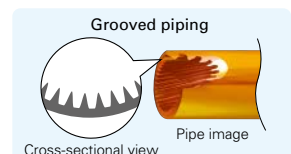
Power Receiver and Twin LEV Control

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.

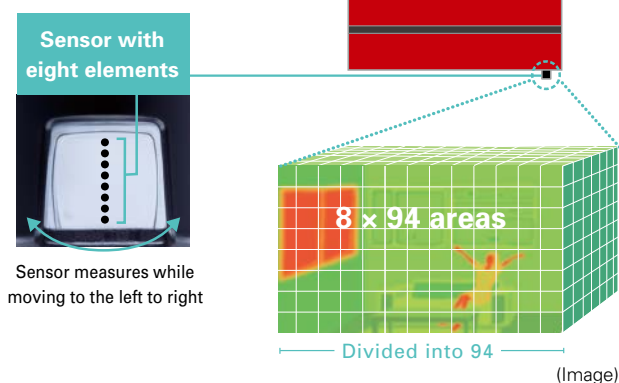


COMFORT

3D i-see Sensor

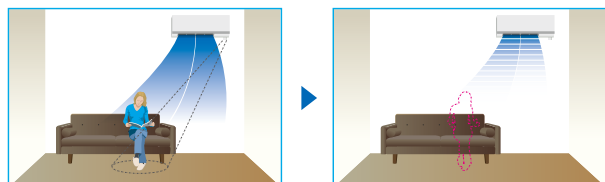
3D i-see Sensor for M SERIES

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

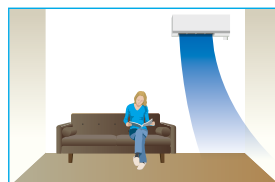
The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.



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.

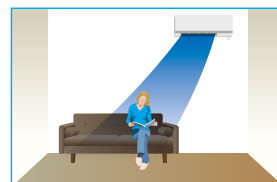
Indirect Airflow

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 to avert airflow and prevent body temperature from becoming excessively cooled.



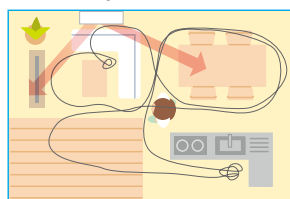
Direct Airflow

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



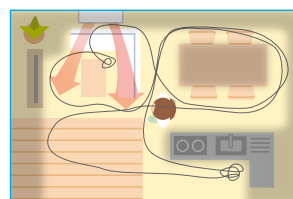
Even Airflow *LN Series only

Normal swing mode



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

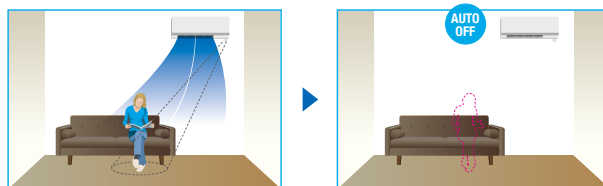
Even airflow mode



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

No occupancy 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 i-see Sensor for S & P SERIES

Detects number of people

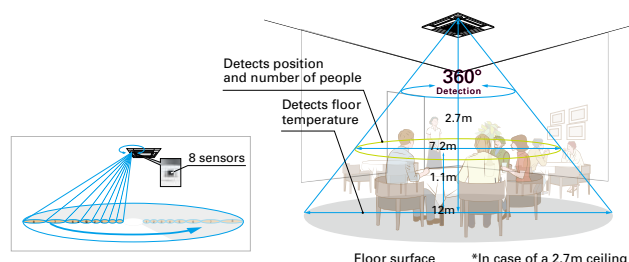
The 3D i-see Sensor detects the number of people in the room and adjusts the power accordingly. This makes automatic power-saving operation possible in places where the number of people changes frequently. Additionally, when the area is continuously unoccupied, the system switches to a more enhanced 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 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.

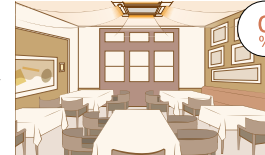
*When MA Remote Controller is used to control multiple refrigerant systems, "No occupancy Auto-OFF mode" cannot be used.

Room occupancy energy save mode



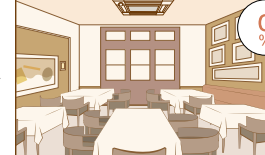
1°C
power
savings

No occupancy energy save mode



2°C
power
savings

No occupancy Auto-OFF mode



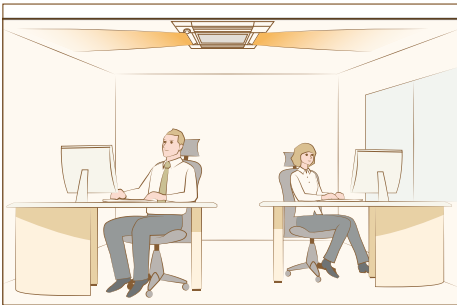
Auto-Off

*PAR-41MAA 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!



*PAR-41MAA or PAR-SL101A-E is required for each setting.

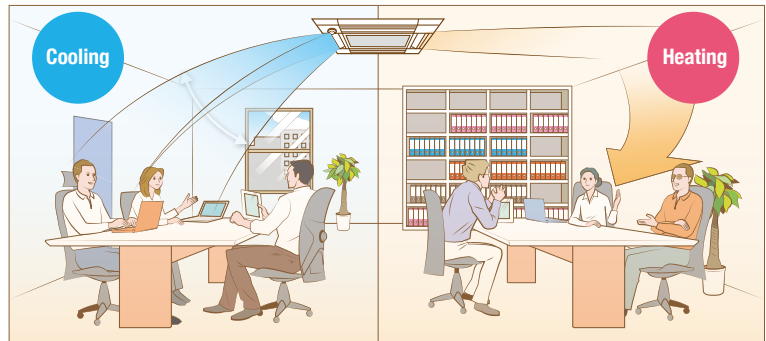
Seasonal airflow*

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.

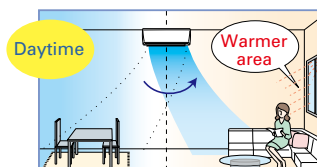


*PAR-41MAA is required for each setting.

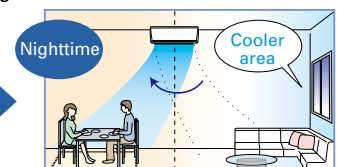


Area Temperature Monitor

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



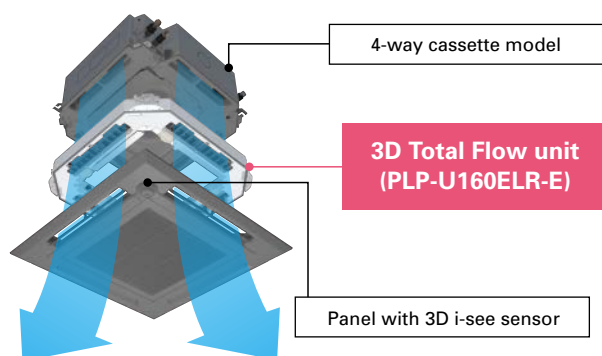
COMFORT

3D TOTAL FLOW

3D Total Flow*

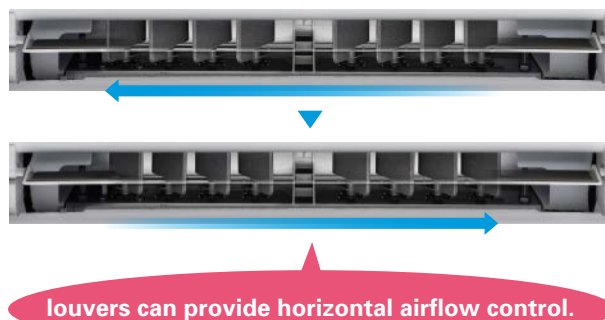
3D Total Flow is an innovative function. Our original 3D i-see sensor detects the temperature of the floor, and then the newly installed 3D Total Flow unit automatically controls the airflow in the left/right directions in a smart manner.

*3D Total Flow unit (PLP-U160ELR-E) cannot be used with Plasma Quad Connect (PAC-SK51FT-E), Insulation kit (PAC-SK36HK-E), Shutter Plate (PAC-SJ37SP-E), Multi functional casement (PAC-SJ41TM-E) and High-efficiency filter element (PAC-SH59KF-E)

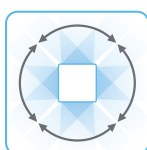


Horizontal louver (3D Total Flow)

In addition to the ability of conventional models to control airflow in the vertical direction, the adoption of a horizontal louver unit allows each outlet to blow air over a horizontal angle of 90 degrees. The combination of four outlets delivers 360° airflow control around the entire circumference. This now makes it possible to blow air in diagonal directions which eliminates temperature irregularities.

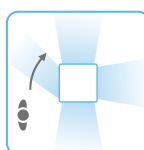


Fine-tuned sensing & airflow direction control (3D Total Flow)



Swinging

Since airflow can be controlled in the horizontal and vertical directions, you can efficiently make the entire room comfortable.

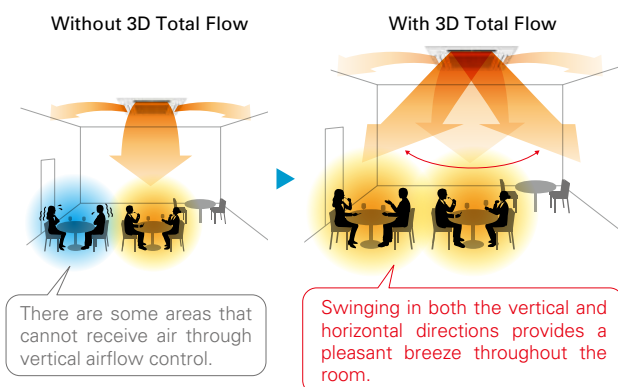


Indirect mode

When set to "Indirect" mode, the system detects the position of a person and maintains comfort while diverting airflow away from them.

Horizontal, vertical, and diagonal airflow delivered to every corner

The combination of the vertical vanes with the horizontal louver unit makes it possible to direct airflow in any direction. This quickly makes the entire room comfortable, even when diagonal airflow is necessary.



Prevents direct airflow and keeps you comfortable

This function prevents people from being directly exposed to airflow while still ensuring comfort. The "Indirect" mode of 3D Total Flow keeps the downward airflow while avoiding direct blow to people, delivering a pleasant warmth.

Without 3D Total Flow

Models that are only equipped with vertical vanes need to swing the airflow upward to avoid people. This makes it difficult to warm up the surrounding space.

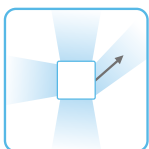


With 3D Total Flow

Now, it is easier to warm the surrounding space while still ensuring people do not receive direct blow.



*If people are present throughout the entire airflow range of an outlet, the airflow is shifted horizontally to avoid direct airflow.



Targeting

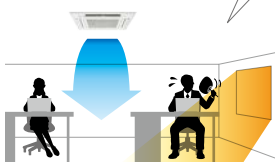
The system can detect spaces with uneven temperatures and target them by sending air even if they are in a diagonal direction.

Detects and targets areas with uneven temperatures

3D i-see sensor detects areas with uneven temperatures, even if they are caused by the installation orientation of the air conditioner or the influence of strong sunlight. Efficient air conditioning is possible thanks to the ability to send focused airflow to such areas, even those in a diagonal position.

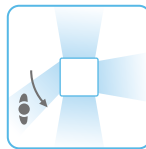
Without 3D Total Flow

Depending on application, conventional systems may take a long time to cool down hot spots.



With 3D Total Flow

The new system efficiently eliminates hot spots by using targeted airflow.



Direct mode

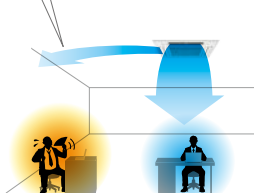
When set to "Direct" mode, the system detects the position and diverts airflow towards wherever they are located.

Delivers airflow even in diagonal directions

You can freely turn on "Direct" mode depending on personal preference. This allows for air conditioning in diagonal directions which was difficult for models that could only swing the airflow up and down. This feature is perfect for when you come back home on a hot day.

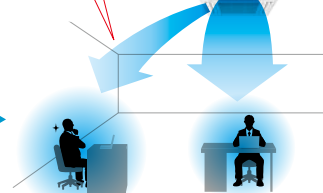
Without 3D Total Flow

It is difficult to direct airflow in diagonal directions when only using vertical vanes.



With 3D Total Flow

Ensures comfort even when you are located diagonally from an outlet.



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.

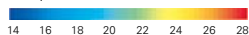
Econo Cool on



Conventional cooling mode



Temperature distribution (°C)



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 |
|-------|-----|-----|--------------------|
| ON | OFF | OFF | 100% |
| | ON | OFF | 75% |
| | ON | ON | 50% |
| | OFF | ON | 0% (Stop) |

*PUHZ outdoor only

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

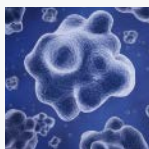
After reaching the target temperature, heating mode will automatically switch to circulator mode, which makes the unit go into "fan-only" state and mixes warm air to eliminate uneven temperature in the room.

AIR QUALITY

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.

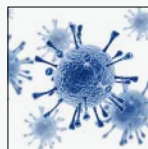
Bacteria



Test results have confirmed that Plasma Quad Plus neutralizes 99% of bacteria in 162 minutes in a 25m³ test space.

<Test No.> KRCS-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

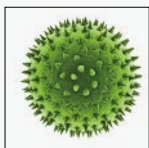
Molds



Test results have confirmed that Plasma Quad Plus neutralizes 99% of mold in 135 minutes in a 25m³ test space.

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

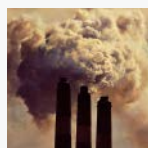
Allergens



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 28m³ 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

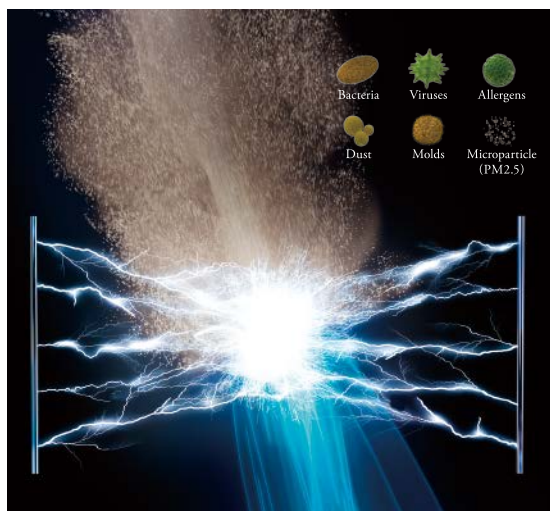
| Model | Name | Method | Bacteria | Viruses | Molds | Allergens | Dust | PM2.5* |
|-----------|------------------|------------------|----------|---------|-------|-----------|------|--------|
| FH Series | Plasma Quad | One-Stage Plasma | A | A | B | B | C | |
| LN Series | Plasma Quad Plus | Two-Stage Plasma | A | A | A | A | A | A |

A: Highly effective
B: Effective
C: Partially effective

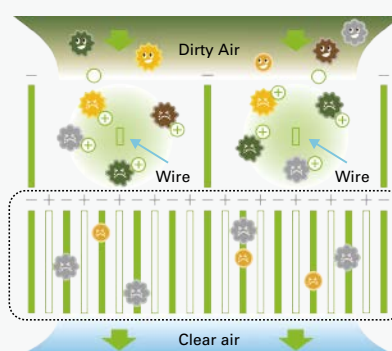
*PM2.5:
Particles smaller than 2.5µm



Image of Plasma Quad Plus



Principle of Plasma Quad Plus



Dust, PM2.5
Viruses Bacteria
Mold Allergens

1st stage

- Make plasma.
- Break mold and allergens. Inhibit viruses.
- Dust and PM2.5 given an electrical charge (+).

2nd stage







- Make a strong electrical field.
- The charged dust and PM2.5 (+) are absorbed in the strong electrical field (-).

Hi-performance Plasma Filtration System

Plasma Quad Connect (Optional Parts)

Plasma Quad Connect is an high-performance air purifying device which can even be installed on the existing units, contributing to a better air quality in your room. Plasma Quad Connect applies a voltage of 6,000 volts to the electrode to generate plasma, effectively removing various kinds of particles such as viruses, bacteria, molds, allergens, dust, and PM2.5.



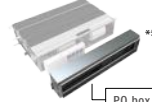



| | | | |
|--|---------------------------------------|---|---------------------------------------|
|  | Virus 99% inhibited*1 *2 |  | Bacteria 99% inhibited*2 |
|  | Mold 99% inhibited*2 |  | Dust 99.7% inhibited |
|  | Allergen 98% inhibited |  | PM2.5 99% inhibited*2 |

*1 The result of test with Influenza A virus.

*2 The result is based on the test with a device installed on the representative indoor unit. (MSZ-AP series)

Specifications

| Model Name | MAC-100FT-E | PAC-HA11PAR, PAC-HA31PAR PAC-HA21PAU, PAC-HA31PAU (Attachment for Ducted Indoor Units)*1, *3 | PAC-KE91PTB-E, PAC-KE92PTB-E PAC-KE93PTB-E, PAC-KE94PTB-E PAC-KE95PTB-E (Box for Ducted Indoor Units)*1, *3 | PAC-SK51FT-E*4 |
|-------------------|---|--|--|---|
| Product Image |  |  |  |  |
| Compatible with | MSZ, PKA, and PKFY*2 (Wall mounted models) | SEZ, PEAD, and PEFY*2 | PEAD, and PEFY*2 | PLA and PLFY*2 (4-way Cassette 3x3 models) |
| Input Voltage | Single Phase AC220~240V | — | — | Single Phase AC220~240V |
| Frequency | 50/60Hz | — | — | 50/60Hz |
| Power Consumption | 4W | — | — | 4W |
| Size H×W×D | 56mm × 499.5mm × 168mm | —*6 | 247mm × 917mm × 179mm*7 | 134mm × 840mm × 840mm |
| Weight | 1,600g | 360g*6 | 4,570g*7 | 8,700g |

*1 Both MAC-100FT-E and PQ Attachment or PQ box will be required when using with ducted models. *2 Please contact your nearest sales office about compatible model. *3 Specifications are subject to change without notice.

*4 When multi-functional casement or automatic filter elevation panel is used/installed, PAC-SK51FT-E can not be used. *5 The image shows rear suction. *6 Depends on model. Shows weight of PAC-HA11PAR.

*7 Depends on model. Shows size/weight of PAC-KE92PTB-E.

Test Report Results

Following test results were conducted under controlled laboratory conditions. Performance might differ in real life environment.

| Tested Materials | | Tested Standard | Capacity | Time | Result | Testing Organization | Test Report |
|------------------|------------------------------|-----------------|------------------|--------|---------------------|--|------------------|
| Virus | New Coronavirus (SARS-CoV-2) | Original | — *8 | 360min | 99.8% inhibited *9 | Japan Textile Products Quality and Technology Center | 20KB070569 |
| | Influenza A | JEM1467 | 25m ³ | 175min | 99% inhibited *10 | SMC Virus Research Center Japan (JAPAN) | R2-003 |
| Bacteria | Staphylococcus Aureus | GB21551.6-2010 | 30m ³ | 335min | 99% inhibited *10 | CHEARI (Beijing) Certification & Testing Co., Ltd. | WK-21-50161 |
| Mold | Penicillium Citrinum | JEM1467 | 25m ³ | 160min | 99% inhibited *10 | Life Science Research Laboratory (JAPAN) | LSRL-51021E-E091 |
| Allergen | Cat Fur and Pollen | Original | — *8 | — | 98% inhibited *11 | Institute of Tokyo Environmental Allergy (JAPAN) | No.T1606028 |
| Dust | Dust and Mites | Original | — *8 | — | 99.7% inhibited *11 | Institute of Tokyo Environmental Allergy (JAPAN) | No.T1606028 |
| PM2.5 | Cigarette smoke | JEM1467 | 25m ³ | 300min | 99% inhibited *10 | Life Science Research Laboratory (JAPAN) | SRL-21010E-E091 |

*8 The test was conducted on the Plasma Quad device alone, not designed to evaluate product performance. *9 The result without the effect of natural attenuation is 96.3%.

*10 The result is based on the test with a device installed on the representative indoor unit. (MSZ-AP series) *11 It shows the result when allergen and dust pass through the device once.

AIR QUALITY

Filters & Cleaning Functions



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.



Dual Barrier Coating

A two-barrier coating which prevents hydrophobic and hydrophilic dirt from sticking to the inner surface and inner parts of the indoor unit.



Dual Barrier Material

Antifouling materials are kneaded into horizontal vane and vertical vane, preventing dust and greasy dirt accumulating on the surface of indoor unit.



Deodorising Filter

The catalyst in the Deodorising Filter denatures the odorous components and destroys them from the source of the odour, quickly delivering fresh air to your room.



V Blocking Filter

V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.

AIR QUALITY

Plasma Quad Protect

Provide clean air and protection for your indoor air quality around the clock without taking up floorspace.



JC-4K-EU

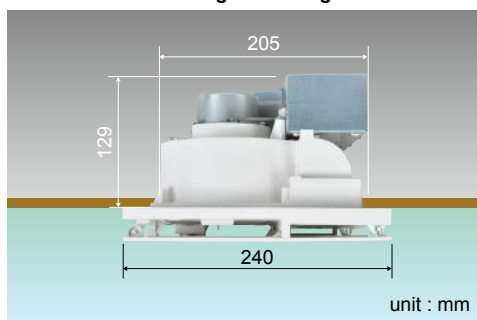
Plasma Quad Technology

Plasma Quad technology was developed by Mitsubishi Electric in 2012. It suppresses airborne viruses, bacteria and allergens as they pass through an electrical field that is generated by applying DC voltage to a discharger comprising a discharging electrode and counter electrode.

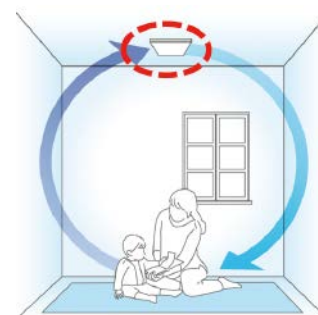
Simple & Floorspace-saving Installation

No duct work is needed, and no floorspace is taken up.

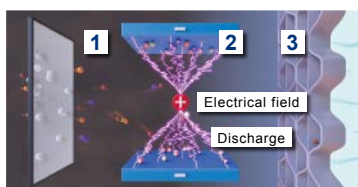
■ Cross-sectional image of ceiling installation



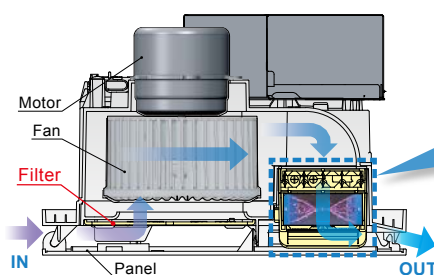
unit : mm



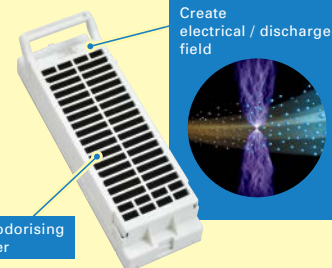
Structure



- 1 Large particles are collected by the filter.
- 2 Particles that pass through the filter are suppressed and collected by the Plasma Quad device.
- 3 Clean air is released into the room.

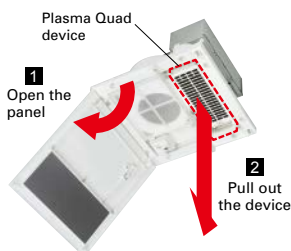


■ Plasma Quad Device



Maintenance-saving

- Rinse with water or lukewarm water. (Neutral detergent is available)
- Soak the deodorising filter in water for about 30 minutes. (This soaking time is a rough estimate.)



Dual Barrier Coating

Dual Barrier Coating effectively prevents buildup of dust and dirt in the fan.

- Comparison of the buildup of dust and dirt containing moisture on fan blades after 10 years of operation. (Test according to Mitsubishi Electric standards)



Without coating



Dual Barrier Coating

Specifications

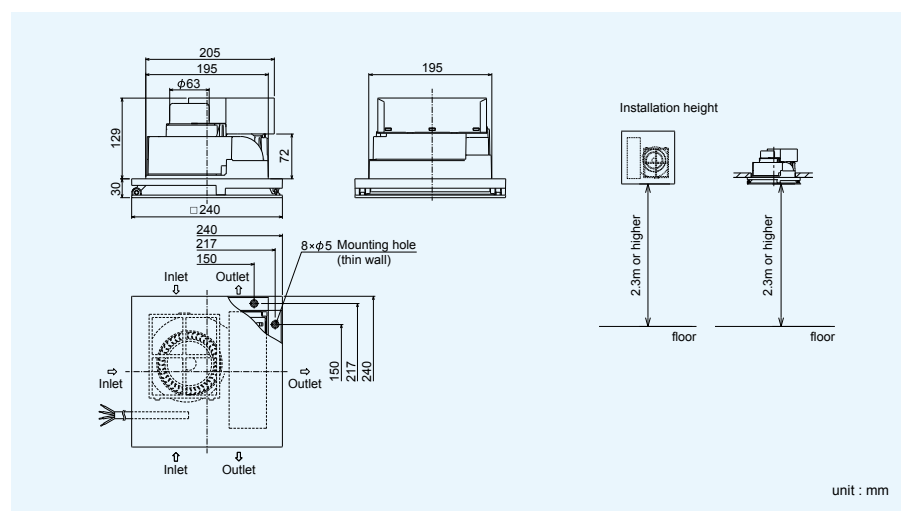
JC-4K-EU type



Key Features

- Plasma Quad Device
- Dual Barrier Coating
- Low Noise Operation and Energy Efficiency
- Installed to Ceiling and Wall

■ Dimensions



■ Specifications

| Model | Voltage | Fan speed | Power consumption [W] | Air volume [m ³ /h] | Noise level [dB] | Weight [kg] |
|----------|---------|-----------|-----------------------|--------------------------------|------------------|-------------|
| JC-4K-EU | 220V | High | 11.5 | 38 | 35 | 2.4 |
| | | Low | 7.5 | 19 | 20 | |
| | 230V | High | 12.5 | 40 | 36.5 | |
| | | Low | 8 | 20 | 21 | |
| | 240V | High | 13.5 | 42 | 38.5 | |
| | | Low | 8.5 | 21 | 22 | |

Test Report Results

Following test results were conducted under controlled laboratory conditions. Performance might differ in real life environment

| Tested Materials | | Tested Standard | Capacity | Time | Result | Testing Organization | Test Report |
|------------------|------------------------------|------------------------------|----------|--------|---------------------|--|---------------|
| Virus | SARS-CoV-2 | New Coronavirus (SARS-CoV-2) | — | 480min | 99.4% suppression*1 | Japan Textile Products Quality and Technology Center | 20KB070532 |
| | Influenza A | JEM1467 | 25m³ | 416min | 99% suppression | Sendai Medical Center | R2-001 |
| Bacteria | <i>Staphylococcus aureus</i> | JEM1467 | 25m³ | 388min | 99% suppression | Kitasato Research Center for Environmental Science | No.2015_0046 |
| Allergen | Pollen | Original | — | — | 88% suppression*2 | Institute of Tokyo Environmental Allergy | 15M-RPTMAY021 |
| PM2.5 | Cigarette smoke | JEM1467 | 27.5m³ | 370min | 99% suppression | Mitsubishi Electric | — |

* 1 It shows the result against the virus attached to the testing equipment which using the plasma quad technology.

* 2 The test was conducted on the Plasma Quad device only. It shows the result when allergen pass through the device once.

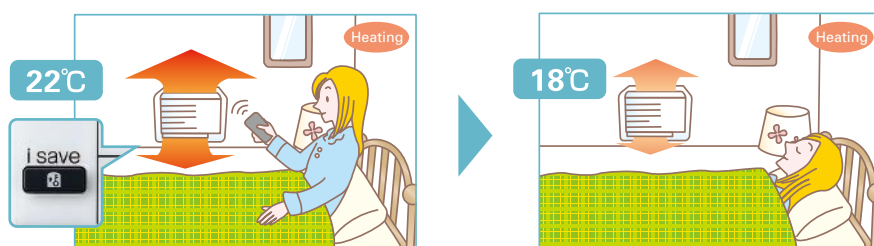
CONVENIENCE

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.



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

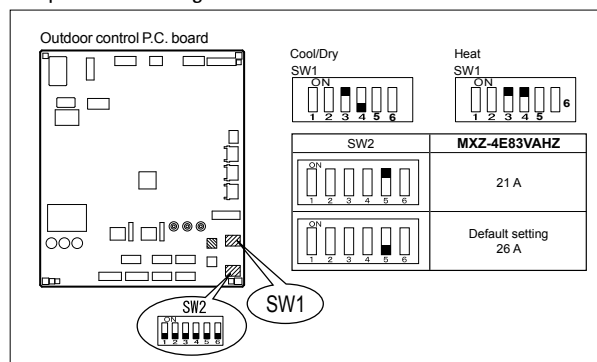
Especially useful at the time of power outages, the unit turns back on automatically when power is restored.

10°C Heating

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

*MLZ and MFZ series: Only when using "i-save" mode, the temperature can be set to 10°C, but not in 1°C increments.

■ 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.

*Night mode does not function when connected to MXZ.

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. |
|-------------------------|--|---------|---------|---------|---------|--|---------|
| 6:00 | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C |
| 8:00 | Automatically changes to high-power operation at wake-up time | | | | | | |
| 10:00 | OFF | OFF | OFF | OFF | OFF | ON 18°C | ON 18°C |
| 12:00 | Automatically turned off during work hours | | | | | Midday is warmer, so the temperature is set lower | |
| 14:00 | | | | | | | |
| 16:00 | | | | | | | |
| 18:00 | ON 22°C | ON 22°C | ON 22°C | ON 22°C | ON 22°C | ON 22°C | ON 22°C |
| 20:00 | Automatically turns on, synchronized with arrival at home | | | | | Automatically raises temperature setting to match time when outside-air temperature is low | |
| 22:00 | | | | | | | |
| (during sleeping hours) | 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 | | | | | | |

Settings

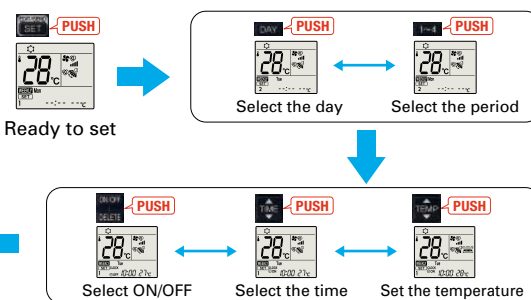
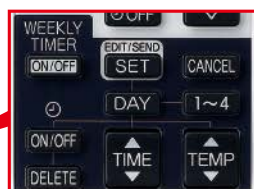
Pattern Settings: Input up to four settings for each day

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

Easy set-up using dedicated buttons



The remote controller is equipped with buttons that are used exclusively for setting the Weekly Timer. Setting operation patterns is easy and quick.



- 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.



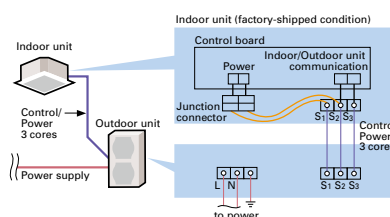
Reuse of Existing Wiring

Wiring recycling problem solved! Compatible with other wiring connection methods*

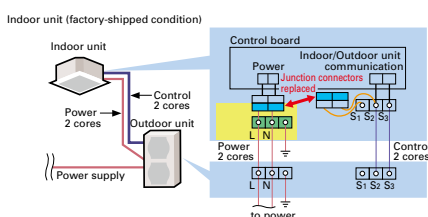
The wiring method has been improved, making it possible to use methods different from that utilized for control and power supply. Units are compatible with the dual harness control line/power line method and the separate power supply method. Using a power supply terminal kit, wire can be efficiently 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.

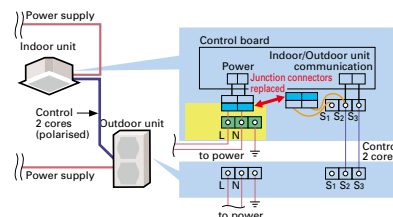
Single Harness Control/Power Line Method (Current method)



Dual Harness Control Line/Power Line Method



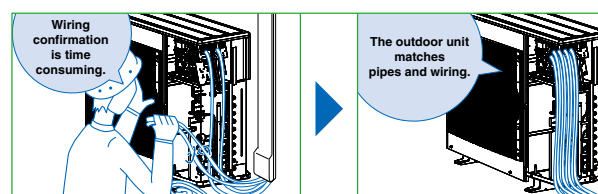
Separate Power Supply Method



Wiring/Piping Correction Function*

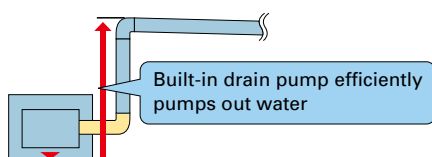
The push of a single button is all that is required to confirm that piping and wiring are properly connected. Corrections are made automatically if a wiring error is detected, eliminating the need for complicated wiring confirmation work when expanding the number of rooms served.

* 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

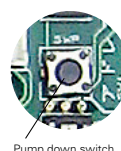
Enables smooth and easy recovery of refrigerant. Simply press the "Pump Down" switch before moving or changing the unit.

Outdoor unit control circuit board



* Photo of Model PUHZ-P100

Pump Down Switch



Push this switch to start/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-41MAA/PAC-YT52CRA/PAC-CT01MAA

Units are compatible for use with the PAR-41MAA, 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.



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

- 1 Turn system on/off
- 2 See status of operating & adjust set point
- 3 Live weather feed from your location
 - Schedule timer - Set 7 day weekly schedule
 - Error status
- 4 Energy Consumption Monitoring



MELCloud™



MELCloud uses the MAC-5671F-E interface

Connecting the Wi-Fi interface

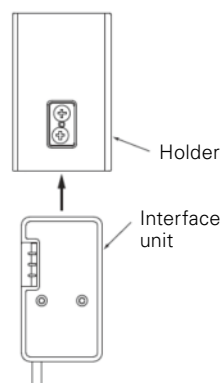
The new Wi-Fi interface MAC-567IF-E can be mounted on the wall or on the outer side of the indoor unit. For LN Series, there is a built-in Wi-Fi interface inside the indoor unit.

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.

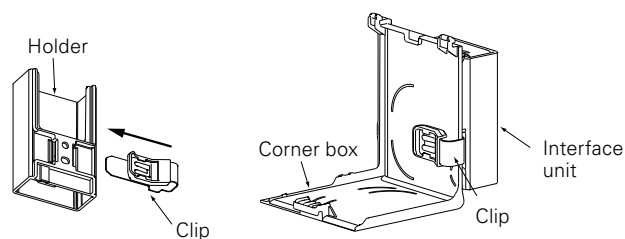


*When mounting on the right side of the unit



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.



Right side



Bottom right



Left side



Bottom left

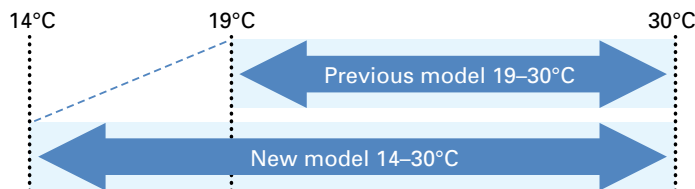
CONTROL TECHNOLOGIES

Extended cooling set temperature range*

In environments such as gyms where people do strenuous exercise, even if the room is cooled to an appropriate temperature, people may feel that it is hot, and they need a cooler air. To satisfy such demands, we have extended the lower limit of the cooling set temperature range from 19–30°C. to 14–30°C.

*Insulation kit (PAC-SK36HK-E) is required when indoor unit is PLA series.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.



Display of model names and serial numbers*

The model names and serial numbers of the indoor/outdoor units that are connected to the MA smart remote controller can be automatically acquired and displayed through one simple operation. This eliminates the need to directly check each unit and helps with inquiries in the case of an abnormality.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

| | |
|----------------------------------|-----------------------------|
| ●Model name display (example) | Collect model names and S/N |
| | 00 PUZ-ZM200YKA2 |
| | IU1 PLA-ZM50EA2 |
| | IU2 PLA-ZM50EA2 |
| | IU3 PLA-ZM50EA2 |
| | IU4 PLA-ZM50EA2 |
| | Collect data: ✓ |
| | —Address + S/N |
| ●Serial number display (example) | Collect model names and S/N |
| | 00 1ZU00001 |
| | IU1 1ZA00001 |
| | IU2 1ZA00002 |
| | IU3 1ZA00003 |
| | IU4 1ZA00004 |
| | Collect data: ✓ |
| | —Address + Model |

Preliminary error history*

In addition to error history, the history of permissible abnormalities can be displayed. The feature enables the unit status check during inspection and maintenance.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

●Error history (Sample)

| Error | Unt# | dd/mm/yy |
|-----------------------|------|------------------|
| E0 | 0-1 | 21/10/20 PM12:34 |
| E0 | 0-1 | 20/12/20 AM 1:23 |
| E0 | 0-1 | 20/11/20 PM10:55 |
| E0 | 0-1 | 20/10/20 PM12:01 |
| Error history menu: ⌂ | | |
| ▼ Page ▲ Delete | | |

●Preliminary error history (Sample)

| Error | Unt# | dd/mm/yy |
|-----------------------|------|------------------|
| E0 | 0-1 | 21/10/20 PM12:34 |
| E0 | 0-1 | 20/12/20 AM 1:23 |
| E0 | 0-1 | 20/11/20 PM10:55 |
| E0 | 0-1 | 20/10/20 PM12:01 |
| Error history menu: ⌂ | | |
| ▼ Page ▲ Delete | | |

Display of power consumption*

It is possible to measure, acquire, and display the amount of energy used by each air conditioning system.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

< Data Collection Period >

Time data: Every 30 minutes over the past month

Monthly/daily data: Monthly over the past 14 months

Energy consumption values are calculated from estimated power consumption values according to the operating conditions. They may vary from the actual power consumption values. Please note that the power consumption of optional parts is not included except in the case of optional parts that have their power supplied directly by the outdoor unit.

●Every 30 minutes (example)

| Energy data | | | |
|-------------------|-----------|------|----------|
| 2019-1-1 | 1234.5kWh | 1/6 | |
| 0:30 | 123.4kWh | 2:30 | 123.4kWh |
| 1:00 | 123.4kWh | 3:00 | 123.4kWh |
| 1:30 | 123.4kWh | 3:30 | 123.4kWh |
| 2:00 | 123.4kWh | 4:00 | 123.4kWh |
| Return: ⌂ | | | |
| - Date + ▼ Page ▲ | | | |

●Daily (example)

| Energy data | | | |
|-------------|-------------|-----|-----------|
| 2019-1 | 123456.7kWh | 1/4 | |
| 31 | 1234.5kWh | 27 | 1234.5kWh |
| 30 | 1234.5kWh | 26 | 1234.5kWh |
| 29 | 1234.5kWh | 25 | 1234.5kWh |
| 28 | 1234.5kWh | 24 | 1234.5kWh |
| Return: ⌂ | | | |
| ▼ Page ▲ | | | |

●Monthly (example)

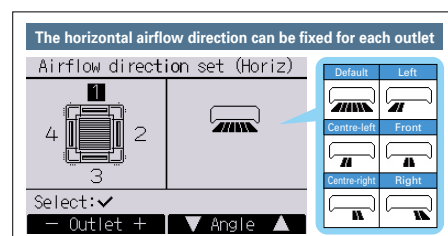
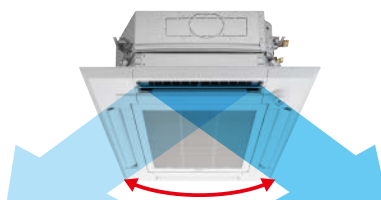
| Energy data | | | |
|--------------------|-------------|-----|--|
| ▶2019-1 | 123456.7kWh | 1/3 | |
| 2018-12 | 123456.7kWh | | |
| 2018-11 | 123456.7kWh | | |
| 2018-10 | 123456.7kWh | | |
| 2018-9 | 123456.7kWh | | |
| View daily data: ✓ | | | |
| ▼ Cursor ▲ | | | |

Horizontal airflow settings

The 4-way cassette model with 3D Total Flow system lets you easily set the horizontal air-flow direction. This allows you to freely tailor the air conditioning performance according to your particular space and purpose.

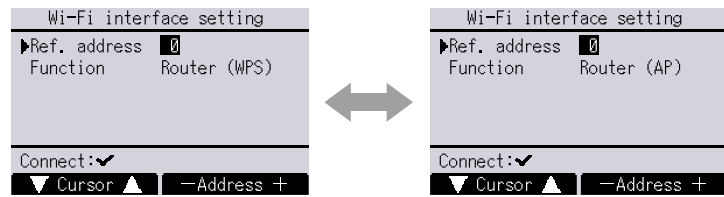
*PLP-P160ELR-E is required to activate this function.

When 3D Total Flow is equipped



Wi-Fi interface setting

When setting up a wireless LAN connection, it is now possible to switch between WPS and AP modes via the remote controller. You can configure a wireless network using the most convenient method according to the installation environment.



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

Multi-language

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 |
| Hungarian | Dutch | | |

Temperature Control

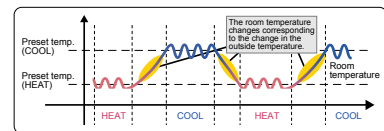
Dual Set Point

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.



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.

Energy-efficient Control

Operation Control Functions

Energy-saving Schedule

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. Air-conditioning 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 | → 12:00 | 80% |
| 12:00 | → 13:00 | 50% |
| 13:00 | → 17:00 | 90% |
| 17:00 | → 21:00 | 50% |

Auto-return

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

CONTROL TECHNOLOGIES

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

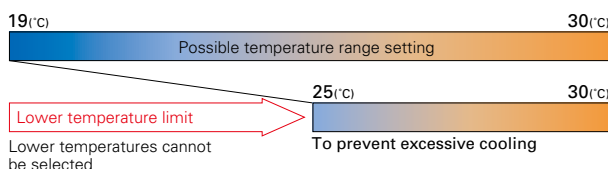
Temperature Range Restriction prevents overheating/overcooling

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

Cooling/Dry

(Setting example of minimum temp. in 25°C)



Recommended for **Office** **Restaurant**

Weekly Timer

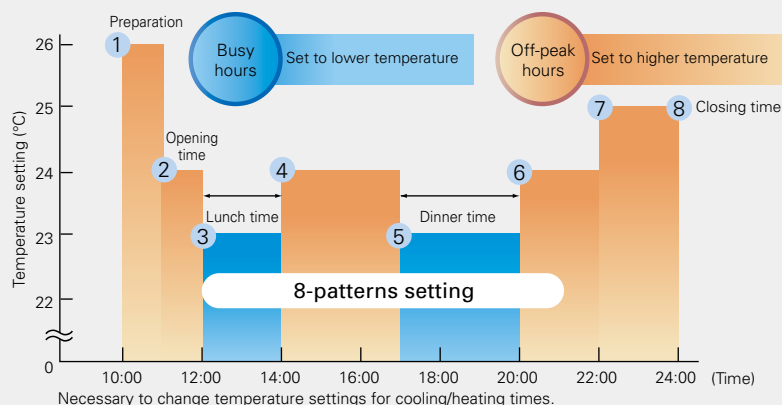
Weekly Timer with Two Types of Settings

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.

Setting Example (restaurant in summer time)



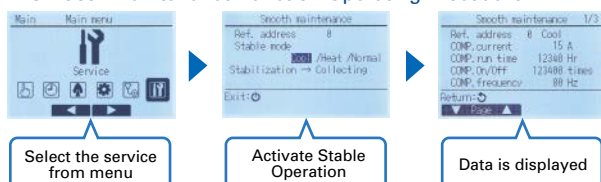
Installation/Maintenance Support Functions

Smooth Maintenance

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



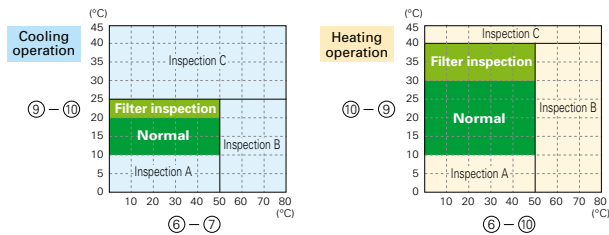
Display information (11 items)

| Compressor | | ⑥ | OU TH4 temp. (°C) |
|--------------|----------------------|-------------|--------------------------------|
| ① | COMP. current (A) | ⑦ | 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 | | ⑩ | IU HEX temp. (°C) |
| ⑤ | Sub cool (°C) | ⑪ | IU filter operating time* (Hr) |

*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.



Result

| | | Item |
|---------|------------------|-------------------------------------|
| Cooling | Temp. difference | (⑥ OU TH4 temp.) - (⑦ OU TH6 temp.) |
| | | (⑨ IU air temp.) - (⑩ IU HEX temp.) |
| Heating | Temp. difference | (⑥ OU TH4 temp.) - (⑩ IU HEX temp.) |
| | | (⑩ 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 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.
- 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 cassette)

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.

Auto-descending Panel Operation

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.

Silent Mode

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.

Initial Password Setting

Password for initial settings

A password is required (default setting is "0000") for initial settings such as time and display language.

Simple MA Remote Controller PAC-YT52CRA

Backlit LCD


Features a liquid-crystal display (LCD) with backlight for operation in dark conditions.

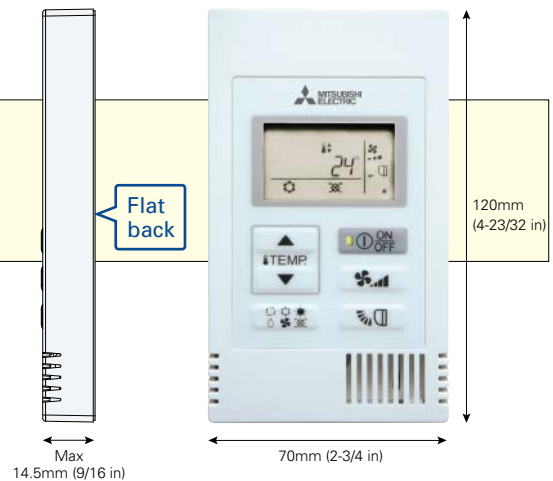
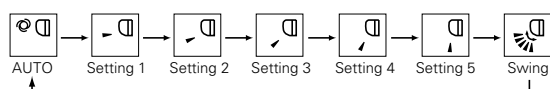
Flat Back

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.

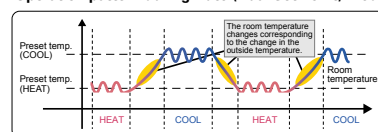


Dual Set Point

Two preset temperatures


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



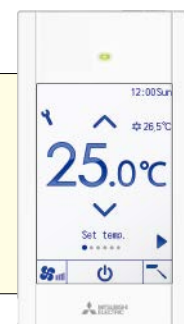
*Please refer to the function list on pages 193-200 for the combination of the available units.

* 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



Touch Panel

3.5 inch/HVGA Full Color LCD



Operation panels



Temperature setting



Operation mode



Fan speed



Vane control



Ventilation



Louver control

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 to display the selected parameters only.

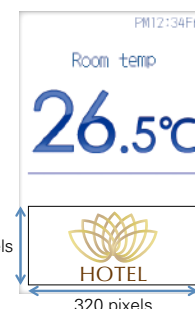
● **Control parameter customize**

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.



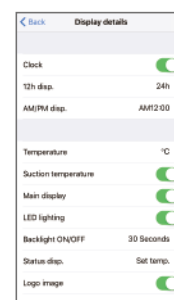
*The Bluetooth® word mark is trademark of Bluetooth SIG, Inc., USA.
*Contact the sales company for information on "Bluetooth" function.



<App screen image>



User App



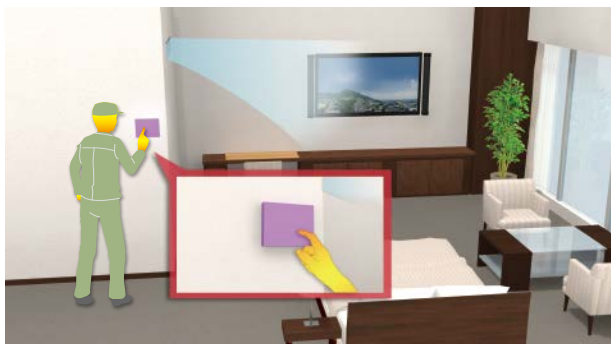
Setting App

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 only available via the remote controller installed each room.



● New model

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.



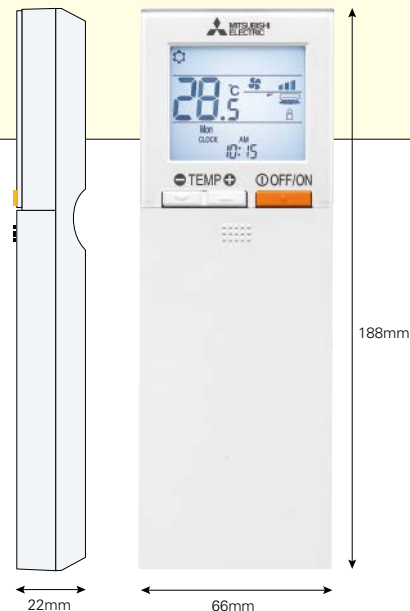
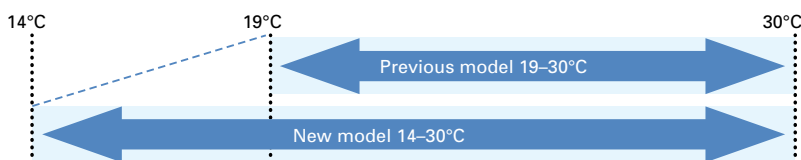
CONTROL TECHNOLOGIES

Wireless Remote Controller PAR-SL101A-E

Extended cooling set temperature range*

In environments such as gyms where people do strenuous exercise, even if the room is cooled to an appropriate temperature, people may feel that it is hot, and they need a cooler air. To satisfy such demands, we have extended the lower limit of the cooling set temperature range from 19–30°C. to 14–30°C.

*Insulation kit (PAC-SK36HK-E) is required when indoor unit is PLA series.
*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

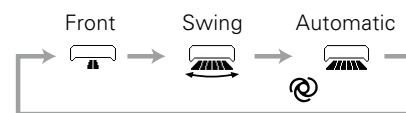


Horizontal airflow settings

The 4-way cassette model complete with the Smart 360-degree Airflow system lets you easily set the horizontal airflow direction. This allows you to freely tailor the air conditioning performance according to your particular space and purpose.

| Front | Centre-right | Right | Centre-left | Left | No setting |
|-------|--------------|-------|-------------|------|------------|
| | | | | | |

[Setting the horizontal airflow function]



Weekly Timer

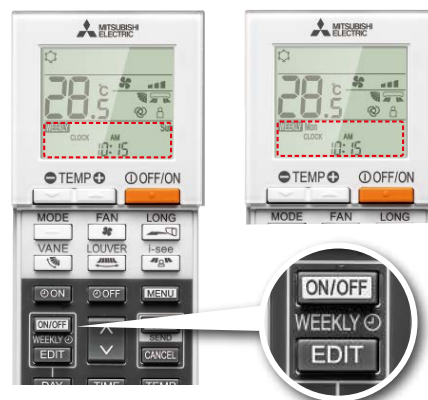
The Weekly Timer enables the setting of operation start and finish times and adjusting the temperature as standard features. Up to 4 patterns per day can be set, providing operation that matches the varying conditions of each period, such as the number of customers in the store.

Example Operation Pattern (Winter/Heating mode)

| | Mon. | 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 |
| 8:00 | Automatically changes to high-power operation at wake-up time | | | | | | |
| 10:00 | OFF | OFF | OFF | OFF | OFF | ON 18°C | ON 18°C |
| 12:00 | Automatically turned off during work hours | | | | | | |
| 14:00 | | | | | | ON 20°C | ON 20°C |
| 16:00 | | | | | | ON 20°C | ON 20°C |
| 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 turns on, synchronized with arrival at home | | | | | | |
| 22:00 | ON 18°C | ON 18°C | ON 18°C | ON 18°C | ON 18°C | ON 18°C | ON 18°C |
| 24:00 (during sleeping hours) | Automatically lowers temperature at bedtime for energy-saving operation at night | | | | | | |

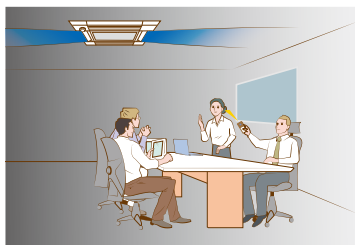
*Weekly Timer cannot be used when On/Off Timer is in use.

*Only for SLZ-KF25/35/50/60VA2, PLA-ZP/RP35/50/60/71/100/125/140EA



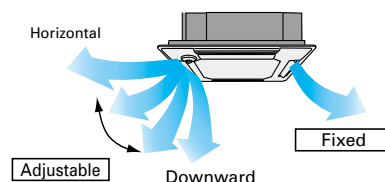
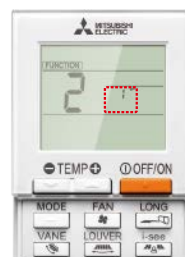
Backlight

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.



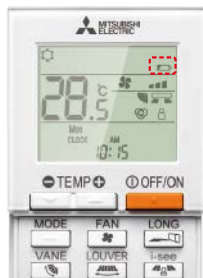
Individual Vane Settings

The airflow directions of the four vanes can each be adjusted independently. Easily set the optimum airflow according to the room setting.



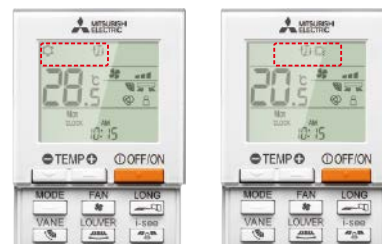
Battery Replacement Sign

Previous wireless remote controllers were not easy to read, understand or use sometimes because the battery was low. Beginning with the PAR-SL101A-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.

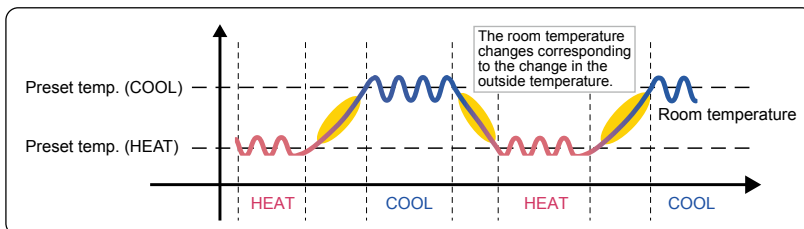


Dual Set Point

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.



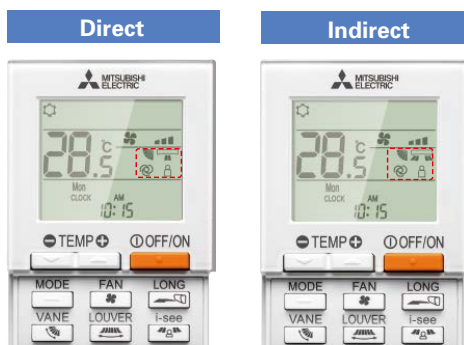
Operation pattern during Auto (Dual Set Point) mode



* Only available for compatible models.

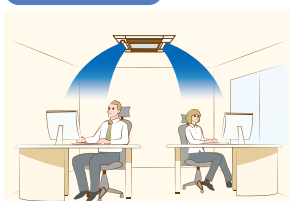
3D i-see Sensor (Direct/Indirect Airflow)

Pressing the i-see button enables direct or indirect setting of all vanes.

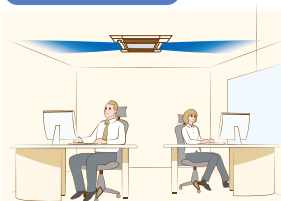


| | Vane setting | |
|---------|--------------------|-----------------------|
| | Direct | Indirect |
| Cooling | horizontal → swing | keep horizontal |
| Heating | keep downward | downward → horizontal |

Direct Airflow



Indirect Airflow



* Only available for models equipped with 3D i-see Sensor.

Basic Functions

| Functions | Button | Liquid crystal |
|--------------------------|-----------|---|
| OFF / ON | ⏻ OFF/ON | |
| Preset temperature | ⊖ TEMP ⊕ | 88.5°C |
| Mode | MODE | Cool Dry Heat Fan Auto Dual set point <small>*Dual Set Point function not operational first use.</small> |
| Fan speed | FAN | 4-Speed Auto |
| Vane angle | VANE | 5-step Swing Auto |
| Louver | WIDE VANE | Fixed Swing |
| 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] |


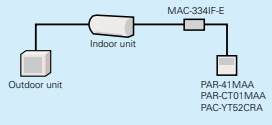
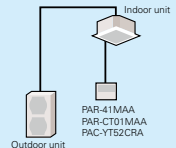

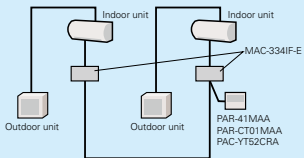
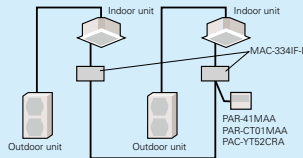
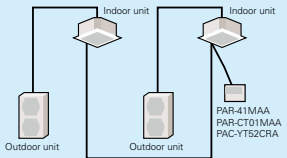

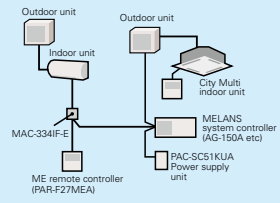
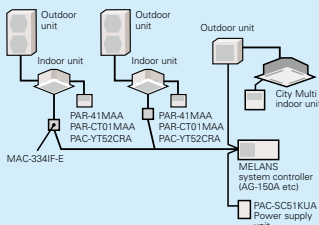
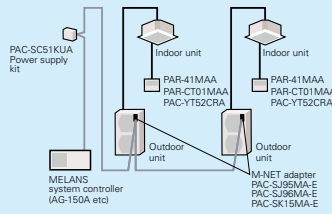
*This remote controller is only compatible with the following models: SLZ-M15/25/35/50/60FA, PLFY-P15/20/25/32/40/50/50FM-E1, PLA-ZM/RP35/50/60/71/100/125/140EA, PLFY-P20/25/32/40/50/63/80/100/125VEM-E

*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

| | System Examples | | |
|--|---|---|---|
| Indoor Unit | M Series Indoor Unit | S Series & P Series Indoor Unit | S Series & P Series |
| Outdoor Unit | M Series and MXZ Series Outdoor | S Series and MXZ Series Outdoor | P Series Outdoor |
|  PAR-41MAA Control PAC-YT52CRA Control |  |  | |
| Details | <ul style="list-style-type: none"> Wired remote controller can be connected to indoor unit | Standard equipment (for indoor units compatible with wired remote controllers) | |
| Major Optional Parts Required | <ul style="list-style-type: none"> MAC-334IF-E (Interface) PAR-41MAA (Wired remote controller) PAR-CT01MAA (Wired remote controller) PAC-YT52CRA (Wired remote controller) | <ul style="list-style-type: none"> PAR-41MAA (Wired remote controller) PAR-CT01MAA (Wired remote controller) PAC-YT52CRA (Wired remote controller) | |
|  System Group Control |  |  |  |
| Details | <ul style="list-style-type: none"> One remote controller can control plural air conditioners with the same settings simultaneously. One remote controller can control up to 16 refrigerant systems. (When connected to a MXZ unit, MAC-334IF-E is counted as one system.) Up to two remote controller can be connected. PAR-SL101A cannot be used when connected through the MAC-334IF-E or when group control is used. | | |
| Major Optional Parts Required | <ul style="list-style-type: none"> MAC-334IF-E (Interface) PAR-41MAA (Wired remote controller) PAR-CT01MAA (Wired remote controller) PAC-YT52CRA (Wired remote controller) | | <ul style="list-style-type: none"> PAR-41MAA (Wired remote controller) PAR-CT01MAA (Wired remote controller) PAC-YT52CRA (Wired remote controller) |
|  M-NET Connections |  |  |  |
| Details | <ul style="list-style-type: none"> Group of air conditioners can be controlled by MELANS system controller (M-NET). | | |
| Major Optional Parts Required | <ul style="list-style-type: none"> MAC-334IF-E (M-NET Interface) MELANS System controller PAC-SC51KUA (power supply unit) | | <ul style="list-style-type: none"> PAC-SJ95MA-E or PAC-SJ96MA-E (M-NET converter) MELANS System controller PAC-SC51KUA (power supply unit) |

OTHERS

For M Series Indoor Units (New A-control Models Only)

| | System Examples | Connection Details | Control Details | Major Optional Parts Required |
|--|-----------------|--|---|---|
| 1 Remote On/Off Operation <ul style="list-style-type: none"> Air conditioner can be started/stopped remotely. (1) and (2) can be used in combination) | | 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. | <ul style="list-style-type: none"> MAC-334IF-E (Interface) Parts for circuit such as relay box, lead wire, etc. (to be purchased locally) |
| 2 Remote Display of Operation Status <ul style="list-style-type: none"> The On/Off status of air conditioners can be confirmed remotely. (1) and (2) can be used in combination) | | 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. | <ul style="list-style-type: none"> 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

| | System Examples | | Details | Major Optional Parts Required |
|--|--|---|--|---|
| | Wired remote controller | Wireless remote controller | | |
| A 2-remote Controller Control <p>With two remote controllers, control can be performed locally and remotely from two locations.</p> | <p>* Set "Main" and "Sub" remote controllers.</p> <p>(Example of 1 : 1 system)</p> | <p>* When using wired and wireless remote controllers</p> <p>(Example of Simultaneous Twin)</p> | <ul style="list-style-type: none"> Up to two remote controllers can be connected to one group. Both wired and wireless remote controllers can be used in combination. | <ul style="list-style-type: none"> Wired Remote Controller PAR-41MAA PAC-YT52CRA (for PKA, PAC-SH29TC-E is required) Wireless Remote Controller PAR-SL97A-E/PAR-SL101A-E (only for SLZ) Wireless Remote Controller Kit for PCA PAR-SL94B-E |
| B Operation Control by Level Signal <p>Air conditioner can be started/stopped remotely. In addition, On/Off operation by local remote controller can be prohibited/permitted.</p> | <p>(Example of 1 : 1 system x 2)</p> | <p>(Example of 1 : 1 system x 2)</p> | <ul style="list-style-type: none"> Operation other than On/Off (e.g., adjustment of temperature, fan speed, and airflow) can be performed even when remote controller operation is prohibited. Timer control is possible with an external timer. | <ul style="list-style-type: none"> Adapter for remote On/Off PAC-SE55RA-E Relay box (to be purchased locally) Remote control panel (to be purchased locally) |
| C Operation Control by Pulse Signal | <p>(Example of 1 : 1 system x 2)</p> | <p>(Example of 1 : 1 system x 2)</p> | <ul style="list-style-type: none"> The pulse signal can be turned On/Off. Operation/emergency signal can be received at a remote location. | <ul style="list-style-type: none"> Connector cable for remote display PAC-SA88HA-E / PAC-725AD (10 pcs. x PAC-SA88HA-E) Relay box (to be purchased locally) Remote control panel (to be purchased locally) |
| D Remote Display of Operating Status <p>Operating status can be displayed at a remote location.</p> | <p>(Example of 1 : 1 system)</p> | <p>(Example of Simultaneous Twin)</p> | <ul style="list-style-type: none"> Operation/emergency signal can be received at a remote location (when channeled through the PAC-SF40RM-E → no-voltage signal, when channeled through the PAC-SA88HA-E → DC 12V signal). | <ul style="list-style-type: none"> Remote display panel (to be purchased locally) Connector cable for remote display PAC-SA88HA-E / PAC-725AD (10 pcs. x PAC-SA88HA-E) Relay box (to be purchased locally) Remote operation adapter PAC-SF40RM-E * Unable to use with wireless remote controller |
| E Timer Operation <p>Allows On/Off operation with timer</p> <p>*For control by an external timer, refer to [B] Operation Control by Level Signal.</p> | <p>(Example of 1 : 1 system)</p> | | <ul style="list-style-type: none"> Weekly Timer: On/Off and up to 8 pattern temperatures can be set for each calendar day. (Initial setting) On/Off Timer: On/Off can be set once each within 72 hr in intervals of 5-minute units. Auto-off Timer: Operation will be switched off after a certain time elapse. Set time can be changed from 30 min. to 4 hr. at 10 min. intervals. <p>*Simple Timer and Auto-off Timer cannot be used at the same time.</p> | Standard functions of PAR-41MAA / PAR-CT01MAA |

FUNCTION LIST (1)

| Category | Icon | | M SERIES | | | | | | | | | |
|------------|-------------------------------------|--|-------------|------------------|--------------------------------------|------------------|---------------|---------------------------|------------------------------------|---------------------|---------------------------|--|
| | | | Indoor unit | MSZ-RW25/35/50VG | MSZ-LN18/25/35/50/60VG2 (W)(V)(R)(B) | MSZ-FT25/35/50VG | MSZ-AP15/20VG | MSZ-AP25/35/42/50/60/71VG | MSZ-EF18/22/25/35/42/50VG(W)(B)(S) | MSZ-BT20/25/35/50VG | MSZ-HR25/35/42/50/60/71VF | |
| | Combination | Outdoor unit | | MUZ-RW | MUZ-LN | MUZ-FT | MUZ-AP | | MUZ-EF | MUZ-BT | MUZ-HR | |
| Technology | DC Inverter | | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Joint Lap DC Motor | | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Reluctance DC Rotary Compressor | | | | | | | | | | | |
| | Heating Caulking (Compressor) | | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | DC Fan Motor | | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | PAM (Pulse Amplitude Modulation) | | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Power Receiver and Twin LEV Control | | | | | | | | | | | |
| | Grooved Piping | | | ● | ● | ● | ● | ● | ● | ● | ● | |
| Functions | i-see Sensor | Felt Temperature Control (3D i-see Sensor) | | ● | ● | | | | | | | |
| | | AREA Temperature Monitor | | ● | ● | | | | | | | |
| | Energy Saving | Econo Cool Energy-saving Feature | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | Standby Power Consumption Cut | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Air Quality | Plasma Quad Plus | | ● | ● | | | | | | | |
| | | Plasma Quad | | | | | | | | | | |
| | | Dual Barrier Coating | | ● | ● | | | | | | | |
| | | Dual Barrier Material | | ● | | | | | | | | |
| | | Silver-ionized Air Purifier Filter | | | Opt | ● | | Opt | ● | Opt | Opt | |
| | | V Blocking Filter | | Opt | Opt | ● | ● | ● | ● | ● | Opt | |
| | | Air Purifying Filter | | | | ● | ● | ● | ● | ● | ● | |
| | Air Distribution | Double Vane | | ● | ● | | | | | | | |
| | | Horizontal Vane | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | Vertical Vane | | ● | ● | ● | ● | ● | | | | |
| | | High Ceiling Mode | | | | | | | | | | |
| | | Auto Fan Speed Mode | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | Circulator Mode | | ●*5 | ●*5 | ●*5 | | | | | | |
| | Convenience | On/off Operation Timer | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | "i save" Mode | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | Auto Changeover | | ● | ● | ● | ● | ● | ● | ● | ●*1 | |
| | | Auto Restart | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | Low-temperature Cooling | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | 10°C Heating | | ● | ● | ● | ● | ● | | ● | ● | |
| | | Low-noise Operation (Outdoor Unit) | | | | | | | | | | |
| | | Night Mode | | ● | ● | ● | ● | ● | | ● | | |
| | | Ampere Limit Adjustment | | | | | | | | | | |
| | | Operation Lock (Indoor) | | ● | ● | ● | ● | ● | | ● | ● | |
| | | Operation Lock (Outdoor) | | | | | | | | | | |
| | | Built-in Weekly Timer Function | | ● | ● | ● | ● | ● | ● | | | |
| | | Drive Mode Selector | | ● | | | | | | | | |
| | System Control | PAR-41MAA Control *3 | | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | |
| | | PAR-CT01MAA Control *3 | | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | |
| | | PAC-YT52CRA Control *3 | | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | |
| | | Centralised On/Off Control *3 | | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | |
| | | System Group Control *3 | | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | |
| | | M-NET Connection *3 | | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | |
| | | Wi-Fi Interface | | ● | ● | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | |
| | | Energy Consumption Monitoring through MELCloud | | | | | | | | | | |
| | Installation | Cleaning-free Pipe Reuse | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | Wiring/Piping Correction Function | | | | | | | | | | |
| | | Drain Pump | | | | | | | | | | |
| | | Flare Connection | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Maintenance | Self-Diagnosis Function (Check Code Display) | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | Failure Recall Function | | ● | ● | ● | ● | ● | ● | ● | ● | |

*1 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 115-116 for details.

*3 Please refer to "System Control" on pages for details.

*4 When connected to MXZ outdoor units, the outdoor operating sound will not change.

*5 Available only for Scandinavian model.

*6 Only V6K model

| M SERIES | | | | | | | | | | |
|----------|----------------------|-----------------------|--------------------------|----------------|---------------|---------------|----------------------|---------------|-------------------------|----------------------|
| | MSZ-DW25/35/ 50VF | MSZ-FH25/35/ 50VE2 | MSZ-SF25/35/ 42/50VE3 | MSZ-GF60/71VE2 | MSZ-WN25/35VA | MSZ-DM25/35VA | MSZ-HJ25/35/ 50VA | MSZ-HJ60/71VA | MFZ-KT25/35/ 50/60VG | MLZ-KP25/35/ 50VF |
| | MUZ-DW | MUZ-FH | MUZ-SF | MUZ-GF | MUZ-WN | MUZ-DM | MUZ-HJ | MUZ-HJ | SUZ-M | SUZ-M |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | | | | | | | | | |
| | ● | ● | ● | | ● | ● | ● | ● | ● | ● |
| | ● | ● | ● | ● | ● | ● | | ● | ● | ● |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | | | | | | | | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | ● | | | | | | | | |
| | | ● | | | | | | | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | ● | ● | ● | | | | | ● | |
| | | | | | | | | | | |
| | | ● | | | | | | | | |
| | | | | | | | | | | |
| | Opt | ● | Opt | Opt | ● | ● | Opt | Opt | ● | Opt |
| | Opt | | | | | | | | | |
| | ● | | ● | ● | | | | | | |
| | | ● | | | | | | | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | ● | ● | | | | | | ● | ● |
| | | | | | | | | | | ● |
| | ● | ● | ● | | ● | ● | ● | ● | ● | ● |
| | | | | | | | | | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | ● | ● | ● | ● | | | | | ● | ● |
| | ●*1 | ● | ● | ● | | | | | ●*1 | ● |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | ● | ● | ● | ● | | | | | ● | ● |
| | ● | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | ● | | | | | | | | | |
| | | | | | | | | | | |
| | | ● | ● | ● | | | | | ● | ● |
| | | | | | | | | | | |
| | 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 |
| | ●*6 | 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 SERIES | | | | | | | |
|-------------------|--|--|---------------------------|--------|---------|----------|---------------------------|--------|--------|--|
| | Combination | Indoor unit | SLZ-M15/25/35/50/60FA2 *4 | | | | SEZ-M25/35/50/60/71DA(L)2 | | | |
| | | Outdoor unit | SUZ-M | SUZ-KA | PUZ-ZM | PUHZ-ZRP | SUZ-M | SUZ-KA | PUZ-ZM | |
| Function merit-up | 3D Total Flow | | | | | | | | | |
| | 2+1 Back-up rotation | | | | ● | | | | ● | |
| | Extended cooling set temperature range | | | | | | | | | |
| | Display of model names and serial numbers | | | | ● | | | | ● | |
| | Display of power consumption | | ● | | ● | | ● | | ● | |
| | Avoiding simultaneous defrosting | | | | ● | | | | ● | |
| | Defrosting when people are absent | | | | ● | | | | | |
| | Defrosting when operation is stopped | | | | ● | | | | ● | |
| | Collection of operation data via MELCloud | | | | ● | | | | ● | |
| | Demand control via MELCloud | | | | ● | | | | ● | |
| | Notification of potential abnormality via MELCloud | | | | ● | | | | ● | |
| Technology | 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 | | ● | ● | ● | ● | ● | ● | | |
| Functions | i-see Sensor | Felt Temperature Control (3D i-see Sensor) | Opt | Opt | Opt | Opt | | | | |
| | | 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 Distribution | Horizontal Vane | ● | ● | ● | ● | | | | |
| | | 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 | | | | | | | | |
| | | Rotation, Back-up and 2nd Stage Cut-in Functions | | | ● | ● | | | | |
| | | Dual Set Point *3 | | | ● | ● | | | | |
| | System Control | PAR-41MAA 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 | | |
| | | Centralised 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 | | | | |
| | 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 | ● | ● | ● | ● | ● | ● | | |

*1 Please refer to "System Control" on pages for details.

*2 Please refer to page 57 for details.

*3 This function is only available with PAR-41MAA, PAC-YT52CRA, PAR-SL101A-E.

*4 SLZ-M15 can be connected with R32 MXZ only.

*5 PEAD-M JAL are not equipped with a drain pump.

• If a numerical figure is listed, the feature is only available with the outdoor unit of that capacity.
• Opt: Optional parts must be purchased.

[illegible]

FUNCTION LIST (2)

| Category | Icon | Combination | P SERIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | PEAD-M35/50/60/71/100/125/140JA(L)2 | | | | | | | | PEA-M200/250LA | | | | PKA-M35/50LA(L)2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Indoor unit | | Outdoor unit | | | | | | | | PUHZ -SHW | | PUZ -ZM | | PUHZ -ZRP | | PUZ -M | | PUHZ -P | | SUZ -M | | SUZ -KA | | PUZ -ZM | | PUHZ -ZRP | | PUZ -M | | PUHZ -P | | PUZ -ZM | | PUHZ -ZRP | | PUZ -M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Function merit-up | 3D Total Flow | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ |

*1 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-41MAA, PAC-YT52CRA, PAR-SL101A-E.

| P SERIES | | | | | | | | | | | | | | | | | | | |
|------------|----------------------|------------|--------------------|-----------|------------|---------------------------------|--------------------|-----------|------------|-----------|------------|------------|--------------------|-----------------------|------------|------------|-----------|-----------|--|
| | PKA-M60/71/100KA(L)2 | | | | | PCA-M35/50/60/71/100/125/140KA2 | | | | | | PCA-M71HA2 | | PSA-M71/100/125/140KA | | | | | |
| PUHZ -P | PUHZ -SHW | PUZ -ZM | PUHZ -ZRP | PUZ -M | PUHZ -P | PUZ -ZM | PUHZ -ZRP | PUZ -M | PUHZ -P | SUZ -M | SUZ -KA | PUZ -ZM | PUHZ -ZRP | PUHZ -ZRP | PUZ -ZM | PUHZ -P | PUZ -M | SUZ -M | |
| | | ● | | ● | | ● | | ● | | | | ● | | | | | | | |
| | | ● | | ● | | ● | | ● | | | | ● | | | ● | | ● | | |
| | | ● | | ● | | ● | | ● | | | | ● | | | ● | | ● | | |
| | | ● | | ● | | ● | | ● | | ● | | ● | | | ● | | ● | ● | |
| | | ● | | ● | | ● | | ● | | | | ● | | | ● | | ● | | |
| | | ● | | | | ● | | | | | | ● | | | ● | | | | |
| | | ● | | ● | | ● | | ● | | | | ● | | | ● | | ● | | |
| | | ● | | ● | | ● | | ● | | | | ● | | | ● | | ● | | |
| | | ● | | ● | | ● | | ● | | | | ● | | | ● | | ● | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| 100 | | 60/71 | 60/71 | 100 | 100 | 35-71 | 35-71 | 100 | 100 | ● | ● | 71 | 71 | 71 | 71 | 100 | 100 | ● | |
| ● | ● | | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | ● | | |
| 100-140 | | 60/71 | 60/71 | 100-140 | 100-140 | 35-71 | 35-71 | 100-140 | 100-140 | ● | ● | 71 | 71 | 71 | 71 | 100-140 | 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 | 200/250 | 200/250 | | |
| | | 60/71 | 60/71 | 100 | 100 | 35-71 | 35-71 | 100 | 100 | ● | ● | 71 | 71 | 71 | 71 | 100 | 100 | ● | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | ● | | |
| 100V-140V | ● | 60-140 | 60-140 | 100-140V | 100-140V | 35-140 | 35-140 | 100-140V | 100-140V | ● | ● | 71-140 | 71-140 | 71-140 | 71-140 | 100-140V | 100-140V | ● | |
| 100-140 | ● | 60-250 | 60-140 | 100-250 | 100-140 | 35-250 | 35-140 | 100-250 | 100-140 | | | 71-250 | 71-140 | 71-140 | 71-250 | 100-140 | 100-250 | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | | | | | | | | | | | | | | | | | | |
| 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 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| | | | | | | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | |
| | | | | | | ● | ● | ● | ● | ● | ● | | | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| | 112/140 | 60-140V | 60-140V 200/250 | | | 60-140V | 60-140V 200/250 | | | | | | 71-140V 200/250 | 71-140V 200/250 | 71-140V | 71-140V | | | |
| | | | | | | | | | | | | ● | ● | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | | | | | | |
| ● | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 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 | 71-250 | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| 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 | | | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |

• 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 | Series | MXZ SERIES | | | | | | | | | | | | | | | |
|----------------|---------------------------------------|--|------------|-----|-----|----------|-----|--------|-----|--------|-----|--------|-----|---------|-----|-----|-----|--|
| | | | Std | | | | | Lo-std | | H2i | | Lo-std | | Std | | | | |
| | | | MXZ-VA(2) | | | | | MXZ-VA | | MXZ-VA | | MXZ-VF | | MXZ-VF3 | | | | |
| | | | 2D | 3E | 4E | 5E | 6D | 2DM | 3DM | 2E | 4E | 2HA | 3HA | 2F | 3F | 4F | | |
| Technology | DC Inverter | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | Joiint Lap DC Motor | | ● | ● | ● | ● | | ● | ● | ● | | ● | ● | ● | ● | ● | | |
| | Magnetic Flux Vector Sine Wave Drive | | | | | | | | | | | | | | | | | |
| | Reluctance DC Rotary Comperssor | | | | 83 | ● | ● | | | | | | | | | | | |
| | 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 | | | ● | 72 | | | ● | | | | ● | | ● | ● | ● | | |
| Grooved Piping | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| Functions | i-see Sensor | Felt Temperature Control (3D i-see) | | | | | | | | | | | | | | | | |
| | | AREA Temperature Monitor | | | | | | | | | | | | | | | | |
| | Energy Saving | Demand Function | | | | | | | | | | | | | | | | |
| | Attractive | Pure White | | | | | | | | | | | | | | | | |
| | | Auto Vane | | | | | | | | | | | | | | | | |
| | Air Quality | Fresh-air Intake | | | | | | | | | | | | | | | | |
| | | High-efficiency Filter | | | | | | | | | | | | | | | | |
| | | Oil Mist Filter | | | | | | | | | | | | | | | | |
| | | Filter Check Signal | | | | | | | | | | | | | | | | |
| | Air Distribution | Horizontal Vane | | | | | | | | | | | | | | | | |
| | | Vertical vane | | | | | | | | | | | | | | | | |
| | | High Ceiling Mode | | | | | | | | | | | | | | | | |
| | | Auto Fan Speed Mode | | | | | | | | | | | | | | | | |
| | Convenience | On/off Operation Timer | | | | | | | | | | | | | | | | |
| | | Auto Changeover | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | Auto Restart | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | Low- temperature Cooling | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | 10°C Heating | | ●*1 | ●*1 | ●*1 | ●*1 | ●*1 | | | ●*1 | ●*1 | | | ●*1 | ●*1 | ●*1 | |
| | | Low-noise Operation (Outdoor) | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | Night Mode | | | | | | | | | | | | | | | | |
| | | Ampere Limit Adjustment | | | | 83 | ● | ● | | | ● | ● | | | | | | |
| | | Operation Lock (Indoor) | | | | | | | | | | | | | | | | |
| | | Operation Lock (Outdoor) | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | Built-in Weekly Timer Function | | | | | | | | | | | | | | | | |
| | | Rotation, Back-up abd 2nd Stage Cut-in Functions | | | | | | | | | | | | | | | | |
| | | Dual Set Point | | | | | | | | | | | | | | | | |
| | System Control | PAR-41MAA Control | | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | |
| | | PAR-CT01MAA Cotrol | | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | |
| | | PAC-YT52CRA Control | | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | |
| | | Centralised On/off Control | | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | |
| | | System Group Control | | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | |
| | | M-NET Connection | | | | Opt (83) | Opt | Opt | | | Opt | Opt | | | | | | |
| | | Wi-Fi Interface | | | | | | | | | | | | | | | | |
| | | Energy/Consumption Monitoring trouth MEL Cloud | | | | | | | | | | | | | | | | |
| | | COMPO | | | | | | | | | | | | | | | | |
| | | MXZ Connection | | ●*2 | ●*2 | ●*2 | ●*2 | ●*2 | ●*2 | ●*2 | ●*2 | ●*2 | ●*2 | ●*2 | ●*2 | ●*2 | ●*2 | |
| | Installation | Cleaning-free Pipe Reuse | | | | | | | | | | | ●*3 | ●*3 | ●*3 | ●*3 | ●*3 | |
| | | Reuse of Existing Wiring | | | | | | | | | | | | | | | | |
| | | Wiring/Piping Correction Function | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | Drain Pump | | | | | | | | | | | | | | | | |
| | | Pump Down Switch | | | ● | ● | ● | ● | | ● | | ● | | | | ● | ● | |
| | | Flare Connection | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Maintenance | Self-Diagnosis Function (Check Code Display) | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | Failure Recall Function | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |

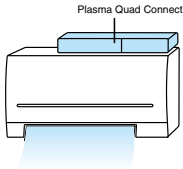
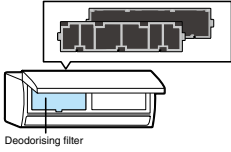
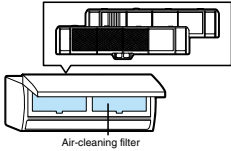
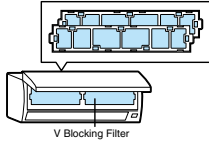
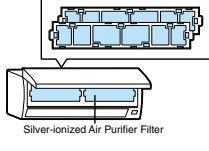
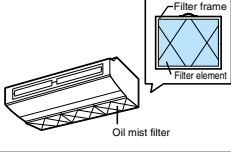
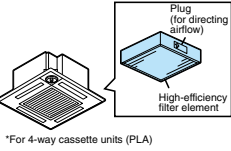
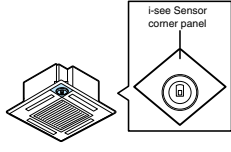
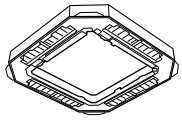
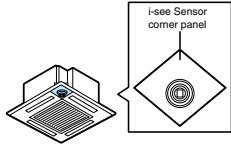
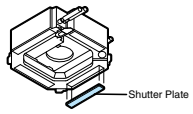
*1 When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible.

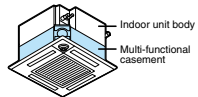
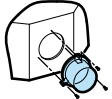
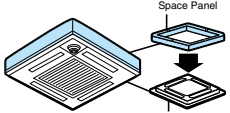
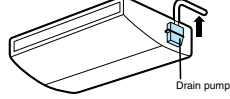
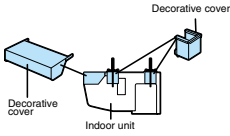
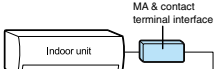
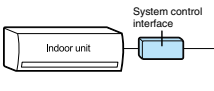
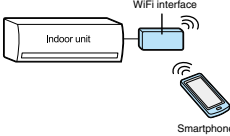
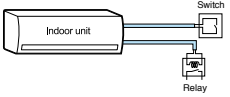
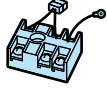
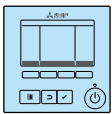
*2 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on pages 113 for details.



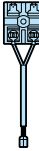
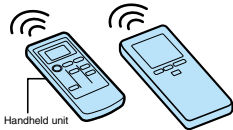
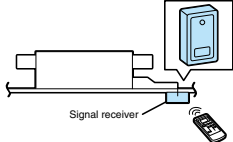
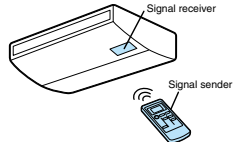
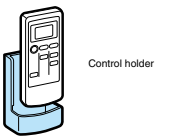
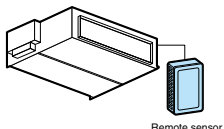
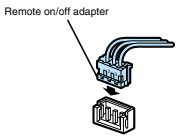
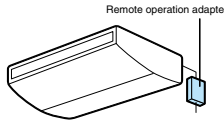
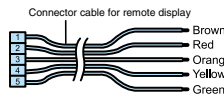
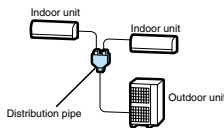
*3 Please refer to "System Control" on pages for details.

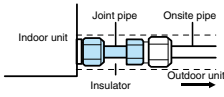
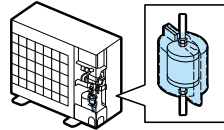
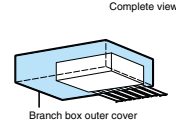
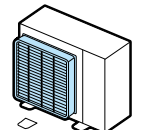
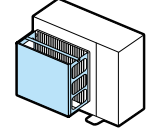
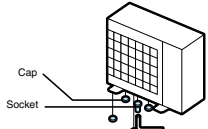
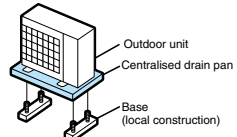
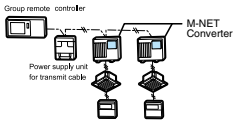
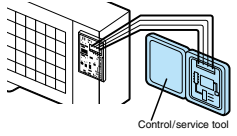
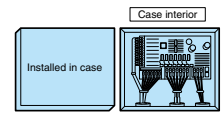
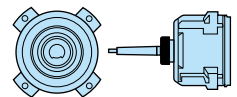
| | MXZ SERIES | | | | |
|--|------------|-----|-----|---------------|-----|
| | Std | | | Hyper Heating | |
| | MXZ-VF | | | MXZ-VFHZ | |
| | 4F | 5F | 6F | 2F | 4F |
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| | ● | ● | ● | ● | ● |
| | ● | ● | ● | ● | ● |
| | ● | ● | ● | ● | ● |
| | ●*1 | ●*1 | ●*1 | ●*1 | ●*1 |
| | ● | ● | ● | ● | ● |
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| | ● | ● | ● | ● | ● |
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| | Opt | Opt | Opt | Opt | Opt |
| | Opt | Opt | Opt | Opt | Opt |
| | Opt | Opt | Opt | Opt | Opt |
| | Opt | Opt | Opt | Opt | Opt |
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| | | | | | |
| | | | | | |
| | ●*2 | ●*2 | ●*2 | ●*2 | ●*2 |
| | ●*3 | ●*3 | ●*3 | ●*3 | ●*3 |
| | | | | | |
| | ● | ● | ● | ● | ● |
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Major Optional Parts

| Part Name | Description |
|---|---|
| Plasma Quad Connect High performance air purifying device that effectively removes various kinds of air pollutants and is even installable on the existing indoor unit. |  <p>Plasma Quad Connect</p> |
| Deodorising Filter Captures small foul-smelling substances in the air. |  <p>Deodorising filter</p> |
| Air-cleaning Filter Removes fine dust particles from the air by means of static electricity. |  <p>Air-cleaning filter</p> |
| V Blocking Filter Inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. |  <p>V Blocking Filter</p> |
| Silver-ionized Air Purifier Filter Captures the bacteria, pollen and other allergens in the air and neutralises them. |  <p>Silver-ionized Air Purifier Filter</p> |
| Oil Mist Filter Element Filter element (12 pieces) that blocks the oil mist for ceiling-suspended models used in professional kitchens. |  <p>Oil mist filter</p> |
| High-efficiency Filter Element Element for high-efficiency filter. Removes fine dust particles from the air. |  <p>Plug (for directing airflow) High-efficiency filter element</p> <p>*For 4-way cassette units (PLA)</p> |
| 3D i-see Sensor Corner Panel for SLZ Corner panel holding the 3D i-see Sensor. |  <p>i-see Sensor corner panel</p> |
| 3D Total Flow for PLA Casement equipped with horizontal louver. |  |
| 3D i-see Sensor Corner Panel for PLA Corner panel holding the 3D i-see Sensor. |  <p>i-see Sensor corner panel</p> |
| Shutter Plate Plate for blocking an air outlet of the 4-way cassette (PLA) indoor unit. |  <p>Shutter Plate</p> |

| Part Name | Description |
|--|--|
| Multi-functional Casement Casement for fresh-air intake and attaching the high-efficiency filter element (optional). |  <p>Indoor unit body Multi-functional casement</p> |
| Fresh-air Intake Duct Flange Flange attachment for adding a duct to take in fresh air from outside. |  <p>*For 4-way cassette units (PLA)</p> |
| Space Panel Decorative cover for the installation when the ceiling height is low. |  <p>Space Panel Panel</p> |
| Drain Pump Pumps drain water to a point higher than that where the unit is installed. |  <p>Drain pump</p> <p>*for ceiling-suspended units</p> |
| Decorative Cover To be attached to the upper section of ceiling-suspended models for professional kitchen use. Helps prevent dust accumulation. |  <p>Decorative cover Indoor unit</p> |
| MA Interface Interface for connecting with the PAR-41MAA remote controller and PAC-YT52CRA. |  <p>MA & contact terminal interface Indoor unit</p> |
| System Control Interface Interface to connect with M-NET controllers. |  <p>System control interface Indoor unit</p> |
| Wi-Fi Interface Interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones. |  <p>WiFi interface Indoor unit Smartphone</p> |
| 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. |  <p>Indoor unit Switch Relay</p> |
| Power Supply Terminal Kit Terminal bed to change the power supply from outdoor power supply to separate indoor/outdoor power supplies. |  |
| Wired Remote Controller Advanced deluxe remote controller with full-dot liquid-crystal display and backlight. Equipped with convenient functions like night-setback. |  |

| Part Name | Description |
|---|--|
| MA Touch Remote Controller Remote controller with the full color touch display. Smartphone/Tablet App is available for setting, customize and control. |  |
| Simple Wired Remote Controller Remote controller with liquid-crystal display, and backlight function for operation in dark location. |  |
| 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. |  |
| Wireless Remote Controller Signal Sender Handheld unit for sending operation signals to the indoor unit. |  |
| Wireless Remote Controller Signal Receiver Receives operation signals from the wireless remote controller handheld unit. |  |
| Wireless Remote Controller Kit (Sender & Receiver) Remote controller handheld unit (signal sender) and receiver (signal receiver) for ceiling-suspended units. |  |
| Control Holder Holder for storing the remote controller. |  |
| Remote Sensor Sensor to detect the room temperature at remote positions. |  |
| Remote On/Off Adapter Connector for receiving signals from the local system to control the on/off function. |  |
| Remote Operation Adapter Adapter to display the operation status and control on/off function from a distance. |  |
| Connector Cable for Remote Display Connector used to display the operation status and control on/off function from a distance. |  |
| Distribution Pipe Branch pipe for P Series simultaneous multi-system use, or to connect two branch boxes for PUMY. |  <p>*P Series with 2 indoor units</p> |

| Part Name | Description |
|---|--|
| Joint Pipe Part for connecting refrigerant pipes of different diameters. |  |
| Liquid Refrigerant Dryer Removes water and minute particles from refrigerant pipes. |  |
| Branch Box Outer Cover Casement for branch boxes. |  <p>Complete view</p> |
| Air Discharge Guide Changes the direction of air being exhausted from the outdoor unit. |  |
| Air Protection Guide Protects the outdoor unit from the wind. |  |
| Drain Socket 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. |  |
| Centralised Drain Pan Catches drain water generated by the outdoor unit. |  |
| M-NET Converter Used to connect P Series A-control models to M-NET controllers. |  |
| Control/Service Tool Monitoring tool to display operation and self-diagnosis data. |  |
| Step Interface Interface for adjusting the capacity of inverter-equipped outdoor units. |  |
| High-static Fan Motor Static pressure enhanced up to +30pa. |  |

Optional Parts List <Indoor>

| Indoor Unit | | | Option | Filter | | | | | | | | | | Softdry cloth | System Control Interface | MA Interface | Wi-Fi Interface | Connector Cable | | |
|----------------|----------------|-------------------------|--------|------------------------------------|-------------|-------------|-------------|-------------------|-------------|-------------|-------------|--------------------|---------------|---------------|--------------------------|--------------|-----------------|-----------------|---------------|---------------|
| | | | | Silver-ionized Air Purifier Filter | | | | V Blocking Filter | | | | Deodorising Filter | | | | | | | | |
| | | | | MAC-2360 FT | MAC-2370 FT | MAC-2380 FT | MAC-2390 FT | MAC-2450 FT | MAC-2460 FT | MAC-2470 FT | MAC-2490 FT | MAC-3000 FT-E | MAC-3010 FT-E | MAC-100 FT-E | MAC-1001 CL-E | MAC-334 IF-E | MAC-497 IF-E | MAC-587 IF-E | MAC-1702 RA-E | MAC-1710 RA-E |
| M SERIES | Wall - mounted | MSZ-RW25VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-RW35VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-RW50VG | | | | | | | | | | | | | | | | | | |
| | | 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-LN60VG2(W)(V)(R)(B) | | | | | | | | | | | | | | | | | | |
| | | MSZ-FT25VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-FT35VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-FT50VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-AP15VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-AP20VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-AP25VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-AP35VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-AP42VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-AP50VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-AP60VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-AP71VG | | | | | | | | | | | | | | | | | | |
| | | 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-BT20VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-BT25VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-BT35VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-BT50VG | | | | | | | | | | | | | | | | | | |
| | | MSZ-HR25VF | | | | | | | | | | | | | | | | | | |
| | | MSZ-HR35VF | | | | | | | | | | | | | | | | | | |
| | | MSZ-HR42VF | | | | | | | | | | | | | | | | | | |
| | | MSZ-HR50VF | | | | | | | | | | | | | | | | | | |
| | | MSZ-HR60VF | | | | | | | | | | | | | | | | | | |
| | | MSZ-HR71VF | | | | | | | | | | | | | | | | | | |
| | | MSZ-DW25VF | | | | | | | | | | | | | | | | | | |
| | | MSZ-DW35VF | | | | | | | | | | | | | | | | | | |
| | | MSZ-DW50VF | | | | | | | | | | | | | | | | | | |
| | | MSY-TP35VF | | | | | | | | | | | | | | | | | | |
| | | MSY-TP50VF | | | | | | | | | | | | | | | | | | |
| | MSZ-FH25VE2 | | | | | | | | | | | | | | | | | | | |
| | MSZ-FH35VE2 | | | | | | | | | | | | | | | | | | | |
| | MSZ-FH50VE2 | | | | | | | | | | | | | | | | | | | |
| | MSZ-SF15VA | | | | | | | | | | | | | | | | | | | |
| | MSZ-SF20VA | | | | | | | | | | | | | | | | | | | |
| | MSZ-SF25VE3 | | | | | | | | | | | | | | | | | | | |
| | MSZ-SF35VE3 | | | | | | | | | | | | | | | | | | | |
| | MSZ-SF42VE3 | | | | | | | | | | | | | | | | | | | |
| | MSZ-SF50VE3 | | | | | | | | | | | | | | | | | | | |
| | MSZ-GF60VE2 | | | | | | | | | | | | | | | | | | | |
| MSZ-GF71VE2 | | | | | | | | | | | | | | | | | | | | |
| MSZ-WN25VA | | | | | | | | | | | | | | | | | | | | |
| MSZ-WN35VA | | | | | | | | | | | | | | | | | | | | |
| MSZ-DM25VA | | | | | | | | | | | | | | | | | | | | |
| MSZ-DM35VA | | | | | | | | | | | | | | | | | | | | |
| MSZ-HJ25VA | | | | | | | | | | | | | | | | | | | | |
| MSZ-HJ35VA | | | | | | | | | | | | | | | | | | | | |
| MSZ-HJ50VA | | | | | | | | | | | | | | | | | | | | |
| MSZ-HJ60VA | | | | | | | | | | | | | | | | | | | | |
| MSZ-HJ71VA | | | | | | | | | | | | | | | | | | | | |
| Floor-standing | MFZ-KT25VG | | | | | | | | | | | | | | | | | | | |
| | MFZ-KT35VG | | | | | | | | | | | | | | | | | | | |
| | MFZ-KT50VG | | | | | | | | | | | | | | | | | | | |
| | MFZ-KT60VG | | | | | | | | | | | | | | | | | | | |
| | MFZ-KW25VG | | | | | | | | | | | | | | | | | | | |
| | MFZ-KW35VG | | | | | | | | | | | | | | | | | | | |
| | MFZ-KW50VG | | | | | | | | | | | | | | | | | | | |
| | MFZ-KW60VG | | | | | | | | | | | | | | | | | | | |
| 1-way cassette | MLZ-KP25VF | | | | | | | | | | | | | | | | | | | |
| | MLZ-KP35VF | | | | | | | | | | | | | | | | | | | |
| | MLZ-KP50VF | | | | | | | | | | | | | | | | | | | |

*1 Either MAC-334IF-E or MAC-497IF-E is required. Up to two wired remote controllers can be connected at the same time.

*2 Either MAC-334IF-E or MAC-497IF-E is required. Only one wired remote controller can be connected.

*3 Outside attachment only.

*4 Available only for LN18/25/35/50/60VG2W.

[illegible]

Optional Parts List <Indoor>

| Indoor Unit | | | Option | Filter | | | | | | | | | | | | | | | |
|-------------|------------------------|-----------------|-------------------------------|------------------------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|----------------------|----------------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|--|--|
| | | | Oil Mist Filter Element | Long Life Filter | High-efficiency Filter Element | | | | V Blocking Filter | | | | | | Filter Box | | | | |
| | | | PAC- SG38 KF-E | PAC- KE85 LAF | *10 PAC- SH59 KF-E | *11 PAC- SH88 KF-E | *12 PAC- SH89 KF-E | *13 PAC- SH90 KF-E | *4 PAC- SK53 KF-E | PAC- SK54 KF-E | *5 PAC- SK55 KF-E | *6 PAC- SK56 KF-E | *7 PAC- SK57 KF-E | MAC- 2470 FT-E | MAC- 1416 FT-E | PAC- KE92 TB-E | PAC- KE93 TB-E | | |
| S SERIES | 4-way cassette | SLZ-M15FA2 | | | | | | | | ● | | | | | | | | | |
| | | SLZ-M25FA2 | | | | | | | | ● | | | | | | | | | |
| | | SLZ-M35FA2 | | | | | | | | ● | | | | | | | | | |
| | | SLZ-M50FA2 | | | | | | | | ● | | | | | | | | | |
| | | SLZ-M60FA2 | | | | | | | | ● | | | | | | | | | |
| | Ceiling - conceald | SEZ-M25DA(L)2 | | | | | | | | | | | | | | | | | |
| | | SEZ-M35DA(L)2 | | | | | | | | | | | | | | | | | |
| | | SEZ-M50DA(L)2 | | | | | | | | | | | | | | | | | |
| | | SEZ-M60DA(L)2 | | | | | | | | | | | | | | | | | |
| | | SEZ-M71DA(L)2 | | | | | | | | | | | | | | | | | |
| P SERIES | 4-way Cassette | PLA-ZM35EA2 | | | ● | | | | ● | | | | | | | | | | |
| | | PLA-ZM50EA2 | | | ● | | | | ● | | | | | | | | | | |
| | | PLA-ZM60EA2 | | | ● | | | | ● | | | | | | | | | | |
| | | PLA-ZM71EA2 | | | ● | | | | ● | | | | | | | | | | |
| | | PLA-ZM100EA2 | | | ● | | | | ● | | | | | | | | | | |
| | | PLA-ZM125EA2 | | | ● | | | | ● | | | | | | | | | | |
| | | PLA-ZM140EA2 | | | ● | | | | ● | | | | | | | | | | |
| | | PLA-M35EA2 | | | ● | | | | ● | | | | | | | | | | |
| | | PLA-M50EA2 | | | ● | | | | ● | | | | | | | | | | |
| | | PLA-M60EA2 | | | ● | | | | ● | | | | | | | | | | |
| | | PLA-M71EA2 | | | ● | | | | ● | | | | | | | | | | |
| | | PLA-M100EA2 | | | ● | | | | ● | | | | | | | | | | |
| | | PLA-M125EA2 | | | ● | | | | ● | | | | | | | | | | |
| | | PLA-M140EA2 | | | ● | | | | ● | | | | | | | | | | |
| | Ceiling - conceald | PEAD-M35JA(L)2 | | | | | | | | | | | | | | ● | | | |
| | | PEAD-M50JA(L)2 | | | | | | | | | | | | | | ● | | | |
| | | PEAD-M60JA(L)2 | | | | | | | | | | | | | | | ● | | |
| | | PEAD-M71JA(L)2 | | | | | | | | | | | | | | | ● | | |
| | | PEAD-M100JA(L)2 | | | | | | | | | | | | | | | | | |
| | | PEAD-M125JA(L)2 | | | | | | | | | | | | | | | | | |
| | | PEAD-M140JA(L)2 | | | | | | | | | | | | | | | | | |
| | | PEA-M200LA | | ● | | | | | | | | | | | | | | | |
| | | PEA-M250LA | | ● | | | | | | | | | | | | | | | |
| | Wall - mounted | PKA-M35LA(L)2 | | | | | | | | | | | | ● | | | | | |
| | | PKA-M50LA(L)2 | | | | | | | | | | | | ● | | | | | |
| | | PKA-M60KA(L)2 | | | | | | | | | | | | | ● | | | | |
| | | PKA-M71KA(L)2 | | | | | | | | | | | | | ● | | | | |
| | | PKA-M100KA(L)2 | | | | | | | | | | | | | ● | | | | |
| | Ceiling - suspended | PCA-M35KA2 | | | | ● | | | | | ● | | | | | | | | |
| | | PCA-M50KA2 | | | | ● | | | | | ● | | | | | | | | |
| | | PCA-M60KA2 | | | | | ● | | | | | ● | | | | | | | |
| | | PCA-M71KA2 | | | | | ● | | | | | ● | | | | | | | |
| | | PCA-M100KA2 | | | | | | ● | | | | | ● | | | | | | |
| | | PCA-M125KA2 | | | | | | ● | | | | | ● | | | | | | |
| | | PCA-M140KA2 | | | | | | ● | | | | | ● | | | | | | |
| | | PCA-M71HA2 | ● | | | | | | | | | | | | | | | | |
| | Floor - standing | PSA-M71KA | | | | | | | | | | | | | | | | | |
| | | PSA-M100KA | | | | | | | | | | | | | | | | | |
| | | PSA-M125KA | | | | | | | | | | | | | | | | | |
| | | PSA-M140KA | | | | | | | | | | | | | | | | | |

*1 3D Total Flow unit(PLP-U160ELR-E) cannot be used with Plasma Quad Connect(PAC-SK51FT-E), Insulation kit(PAC-SK36HK-E), Shutter Plate(PLP-SJ37SP-E),

Multi functional casement(PAC-SJ41TM-E) and High-efficiency filter element(PAC-SH59KF-E)

*2 Plasma Quad Connect(PAC-SK51FT-E) cannot be used with PLP-U160ELR-E(3D Total Flow unit), Insulation kit (PAC-SK36HK-E), Auto elevation panel(PLP-6EAJ, PLP-6EAJE), Multi functional casement(PAC-SJ41TM-E) and High-efficiency filter element(PAC-SH59KF-E).

*3 Insulation kit(PAC-SK36HK-E) cannot be used with 3D Total Flow unit(PLP-U160ELR-E), Plasma Quad Connect(PAC-SK51FT-E), Auto elevation panel(PLP-6EAJ, PLP-6EAJE), Shutter Plate(PAC-SJ37SP-E), Multi functional casement(PAC-SJ41TM-E) and High-efficiency filter element(PAC-SH59KF-E)

*4 V Blocking Filter(PAC-SK53KF-E) cannot be used with High-efficiency filter element(PAC-SH59KF-E).

*5 V Blocking Filter(PAC-SK55KF-E) cannot be used with High-efficiency filter element(PAC-SH88KF-E).

*6 V Blocking Filter(PAC-SK56KF-E) cannot be used with High-efficiency filter element(PAC-SH89KF-E).

*7 V Blocking Filter(PAC-SK57KF-E) cannot be used with High-efficiency filter element(PAC-SH90KF-E).

*8 Shutter Plate(PAC-SJ37SP-E) cannot be used with 3D Total Flow unit(PLP-U160ELR-E) and Insulation kit(PAC-SK36HK-E).

*9 Multi functional casement(PAC-SJ41TM-E) cannot be used with 3D Total Flow unit(PLP-U160ELR-E), Plasma Quad Connect(PAC-SK51FT-E) and Insulation kit(PAC-SK36HK-E).

Optional Parts List <Indoor>

| Indoor Unit | | | Option | | Fresh-air Intake Duct Flange | | Space Panel | Drain Pump | | | | | | | Decorative Cover | System Control Interface | MA & Contact Terminal Interface | Wi-Fi Interface | |
|-------------|---------------------|-----------------|--------|---|------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|------------------|--------------------------|---------------------------------|-----------------|--|
| | | | | | PAC-SH65 OF-E | PAC-SF28 OF-E | PAC-SJ65 AS-E | PAC-SK19 DM-E | PAC-SK01 DM-E | PAC-SJ92 DM-E | PAC-SJ93 DM-E | PAC-SJ94 DM-E | PAC-KE07 DM-E | PAC-KE06 DM-FI | PAC-SF81 KC-E | MAC-334 IF-E | MAC-397 IF-E | MAC-587 IF-E | |
| S SERIES | 4-way cassette | SLZ-M15FA2 | | | | | | | | | | | | | | ● | ● | ● | |
| | | SLZ-M25FA2 | | | | | | | | | | | | | | ● | ● | ● | |
| | | SLZ-M35FA2 | | | | | | | | | | | | | | ● | ● | ● | |
| | | SLZ-M50FA2 | | | | | | | | | | | | | | ● | ● | ● | |
| | | SLZ-M60FA2 | | | | | | | | | | | | | | ● | ● | ● | |
| | Ceiling - concealed | SEZ-M25DA(L)2 | | | | | | | | | | | ● | | | ● | ● | ● | |
| | | SEZ-M35DA(L)2 | | | | | | | | | | | ● | | | ● | ● | ● | |
| | | SEZ-M50DA(L)2 | | | | | | | | | | | ● | | | ● | ● | ● | |
| | | SEZ-M60DA(L)2 | | | | | | | | | | | ● | | | ● | ● | ● | |
| | | SEZ-M71DA(L)2 | | | | | | | | | | | ● | | | ● | ● | ● | |
| P SERIES | 4-way Cassette | PLA-ZM35EA2 | ● | | | ● | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PLA-ZM50EA2 | ● | | | ● | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PLA-ZM60EA2 | ● | | | ● | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PLA-ZM71EA2 | ● | | | ● | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PLA-ZM100EA2 | ● | | | ● | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PLA-ZM125EA2 | ● | | | ● | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PLA-ZM140EA2 | ● | | | ● | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PLA-M35EA2 | ● | | | ● | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PLA-M50EA2 | ● | | | ● | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PLA-M60EA2 | ● | | | ● | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PLA-M71EA2 | ● | | | ● | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PLA-M100EA2 | ● | | | ● | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PLA-M125EA2 | ● | | | ● | | | | | | | | | | ● | ● | ● | |
| | | PLA-M140EA2 | ● | | | ● | | | | | | | | | | ● | ● | ● | |
| | Ceiling - concealed | PEAD-M35JA(L)2 | | | | | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PEAD-M50JA(L)2 | | | | | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PEAD-M60JA(L)2 | | | | | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PEAD-M71JA(L)2 | | | | | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PEAD-M100JA(L)2 | | | | | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PEAD-M125JA(L)2 | | | | | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PEAD-M140JA(L)2 | | | | | | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PEA-M200LA | | | | | | | | | | | ● | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PEA-M250LA | | | | | | | | | | | ● | | | ● ^{*1} | ● ^{*1} | ● | |
| | Wall - mounted | PKA-M35LA(L)2 | | | | | | ● | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PKA-M50LA(L)2 | | | | | | ● | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PKA-M60KA(L)2 | | | | | ● | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PKA-M71KA(L)2 | | | | | ● | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PKA-M100KA(L)2 | | | | | ● | | | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | Ceiling - suspended | PCA-M35KA2 | | | | | | | ● | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PCA-M50KA2 | | | | | | | ● | | | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PCA-M60KA2 | | | | | | | | | | ● | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PCA-M71KA2 | | | | | | | | | ● | | | | | ● ^{*1} | ● ^{*1} | ● | |
| | | PCA-M100KA2 | | | | | | | | | ● | | | | | | | ● | |
| | | PCA-M125KA2 | | | | | | | | | ● | | | | | | | ● | |
| | | PCA-M140KA2 | | | | | | | | | ● | | | | | | | ● | |
| | | PCA-M71HA2 | | ● | | | | | | | | | | | ● | | | ● | |
| | Floor - standing | PSA-M71KA | | | | | | | | | | | | | | | | ● | |
| | | PSA-M100KA | | | | | | | | | | | | | | | | ● | |
| | | PSA-M125KA | | | | | | | | | | | | | | | | ● | |
| | | PSA-M140KA | | | | | | | | | | | | | | | | ● | |

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Optional Parts List <Outdoor>

| Option | | | Distribution Pipe | | | | | | Joint Pipe | | | | | | | Liquid Refrigerant Dryer | | | | |
|---------------------|---------------|--------------|---------------------|-----------------|--------------------------|------------------|--------------------------------|------------------|---------------------------------------|---------------------------------------|---|--|---------------------------------------|---------------------------------------|---------------------------------------|--|----------------------|----------------------|----------------------|----------------------|
| | | | For Twin (50:50) | | For Triple (33:33:33) | | For Quadruple (25:25:25:25) | | Unit ø6.35 --> Pipe ø9.52 | Unit ø9.52 --> Pipe ø12.7 | Unit ø15.88 --> Pipe ø19.05 | Unit ø9.52 --> Pipe ø15.88 | Unit ø6.35 --> Pipe ø9.52 | Unit ø9.52 --> Pipe ø12.7 | Unit ø12.7 --> Pipe ø9.52 | Unit ø12.7 --> Pipe ø15.88 | For pipe ø6.35 | For pipe ø9.52 | For pipe ø12.7 | |
| | | | MSDD- 50TR-E | MSDD- 50WR-E | MSDT- 111R-E | MSDT- 111R3-E | MSDF- 111R-E | MSDF- 111R2-E | PAC- SG72 RJ-E | PAC- SG73 RJ-E | PAC- SG75 RJ-E | PAC- SG76 RJ-E | PAC- 493 PI | Flare | | MAC- A454 JP-E | MAC- A455 JP-E | MAC- A456 JP-E | PAC- SG81 DR-E | PAC- SG82 DR-E |
| Outdoor Unit | | | | | | | | | | | | | | | | | | | | |
| M SERIES | RW Series | MUZ-RW25VGHZ | | | | | | | | | | | | | | | | | | |
| | | MUZ-RW35VGHZ | | | | | | | | | | | | | | | | | | |
| | | MUZ-RW50VGHZ | | | | | | | | | | | | | | | | | | |
| | L Series | MUZ-LN25VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-LN25VGHZ | | | | | | | | | | | | | | | | | | |
| | | MUZ-LN35VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-LN35VGHZ | | | | | | | | | | | | | | | | | | |
| | | MUZ-LN50VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-LN50VGHZ | | | | | | | | | | | | | | | | | | |
| | | MUZ-LN60VG | | | | | | | | | | | | | | | | | | |
| | FT Series | MUZ-FT25VGHZ | | | | | | | | | | | | | | | | | | |
| | | MUZ-FT35VGHZ | | | | | | | | | | | | | | | | | | |
| | | MUZ-FT50VGHZ | | | | | | | | | | | | | | | | | | |
| | A Series | MUZ-AP15VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-AP20VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-AP25VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-AP25VGH | | | | | | | | | | | | | | | | | | |
| | | MUZ-AP35VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-AP35VGH | | | | | | | | | | | | | | | | | | |
| | | MUZ-AP42VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-AP42VGH | | | | | | | | | | | | | | | | | | |
| | | MUZ-AP50VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-AP50VGH | | | | | | | | | | | | | | | | | | |
| | | MUZ-AP60VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-AP71VG | | | | | | | | | | | | | | | | | | |
| | E Series | MUZ-EF25VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-EF25VGH | | | | | | | | | | | | | | | | | | |
| | | MUZ-EF35VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-EF35VGH | | | | | | | | | | | | | | | | | | |
| | | MUZ-EF42VG | | | | | | | | | | | | | | | | | | |
| | BT Series | MUZ-EF50VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-BT20VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-BT25VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-BT35VG | | | | | | | | | | | | | | | | | | |
| | HR Series | MUZ-BT50VG | | | | | | | | | | | | | | | | | | |
| | | MUZ-HR25VF | | | | | | | | | | | | | | | | | | |
| | | MUZ-HR35VF | | | | | | | | | | | | | | | | | | |
| | | MUZ-HR42VF | | | | | | | | | | | | | | | | | | |
| | | MUZ-HR50VF | | | | | | | | | | | | | | | | | | |
| | DW Series | MUZ-HR60VF | | | | | | | | | | | | | | | | | | |
| | | MUZ-HR71VF | | | | | | | | | | | | | | | | | | |
| | | MUZ-DW25VF | | | | | | | | | | | | | | | | | | |
| | | MUZ-DW35VF | | | | | | | | | | | | | | | | | | |
| | | MUZ-DW50VF | | | | | | | | | | | | | | | | | | |
| | TP Series | MUY-TP35VF | | | | | | | | | | | | | | | | | | |
| | | MUY-TP50VF | | | | | | | | | | | | | | | | | | |
| | F Series | MUZ-FH25VE | | | | | | | | | | | | | | | | | | |
| | | MUZ-FH25VEHZ | | | | | | | | | | | | | | | | | | |
| MUZ-FH35VE | | | | | | | | | | | | | | | | | | | | |
| MUZ-FH35VEHZ | | | | | | | | | | | | | | | | | | | | |
| MUZ-FH50VE | | | | | | | | | | | | | | | | | | | | |
| S Series | MUZ-FH50VEHZ | | | | | | | | | | | | | | | | | | | |
| | MUZ-SF25VE | | | | | | | | | | | | | | | | | | | |
| | MUZ-SF25VEH | | | | | | | | | | | | | | | | | | | |
| | MUZ-SF35VE | | | | | | | | | | | | | | | | | | | |
| | MUZ-SF35VEH | | | | | | | | | | | | | | | | | | | |
| | MUZ-SF42VE | | | | | | | | | | | | | | | | | | | |
| G Series | MUZ-SF42VEH | | | | | | | | | | | | | | | | | | | |
| | MUZ-SF50VE | | | | | | | | | | | | | | | | | | | |
| | MUZ-SF50VEH | | | | | | | | | | | | | | | | | | | |
| W Series | MUZ-GF60VE | | | | | | | | | | | | | | | | | | | |
| | MUZ-GF71VE | | | | | | | | | | | | | | | | | | | |
| D Series | MUZ-WN25VA | | | | | | | | | | | | | | | | | | | |
| | MUZ-WN35VA | | | | | | | | | | | | | | | | | | | |
| H Series | MUZ-DM25VA | | | | | | | | | | | | | | | | | | | |
| | MUZ-DM35VA | | | | | | | | | | | | | | | | | | | |
| | MUZ-HJ25VA | | | | | | | | | | | | | | | | | | | |
| | MUZ-HJ35VA | | | | | | | | | | | | | | | | | | | |
| | MUZ-HJ50VA | | | | | | | | | | | | | | | | | | | |
| Compact floor | MUZ-HJ60VA | | | | | | | | | | | | | | | | | | | |
| | MUZ-HJ71VA | | | | | | | | | | | | | | | | | | | |
| | MUFZ-KW25VGHZ | | | | | | | | | | | | | | | | | | | |
| | MUFZ-KW35VGHZ | | | | | | | | | | | | | | | | | | | |
| | MUFZ-KW50VGHZ | | | | | | | | | | | | | | | | | | | |
| S SERIES (R32) | MUFZ-KW60VGHZ | | | | | | | | | | | | | | | | | | | |
| | SUZ-M25VA | | | | | | | | | | | | | | | | | | | |
| | SUZ-M35VA | | | | | | | | | | | | | | | | | | | |
| | SUZ-M50VA | | | | | | | | | | | | | | | | | | | |
| | SUZ-M60VA | | | | | | | | | | | | | | | | | | | |
| P SERIES (R410A) | SUZ-M71VA | | | | | | | | | | | | | | | | | | | |
| | SUZ-KA25VA6 | | | | | | | | | | | | | | | | | | | |
| | SUZ-KA35VA6 | | | | | | | | | | | | | | | | | | | |
| | SUZ-KA50VA6 | | | | | | | | | | | | | | | | | | | |
| | SUZ-KA60VA6 | | | | | | | | | | | | | | | | | | | |
| | SUZ-KA71VA6 | | | | | | | | | | | | | | | | | | | |

Optional Parts List <Outdoor>

[illegible][illegible]

252

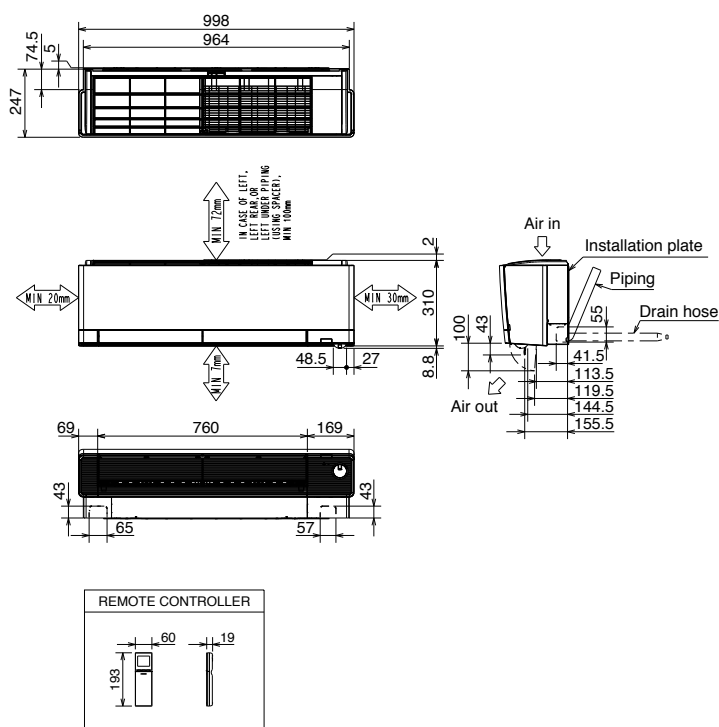
External Dimensions

M SERIES

Unit: mm

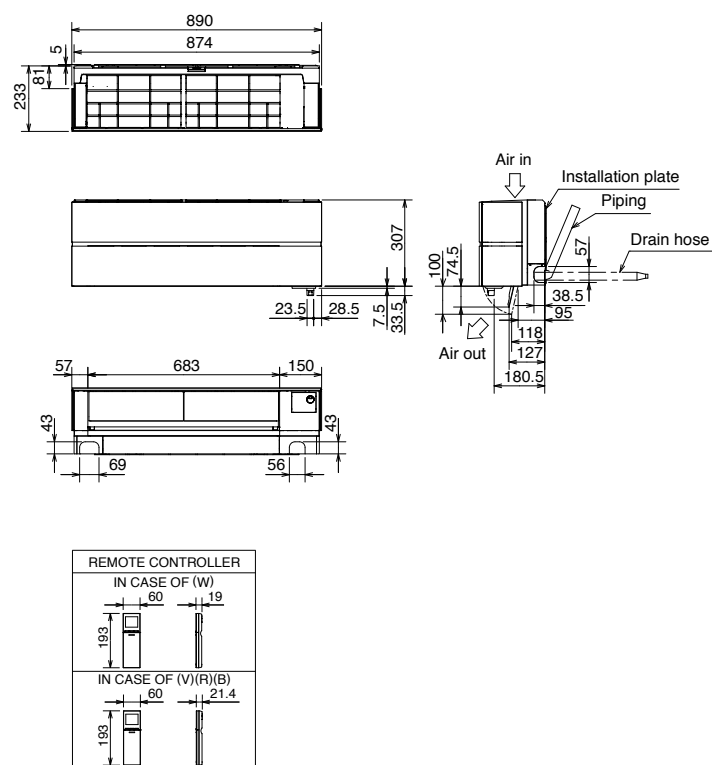
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INDOOR UNIT



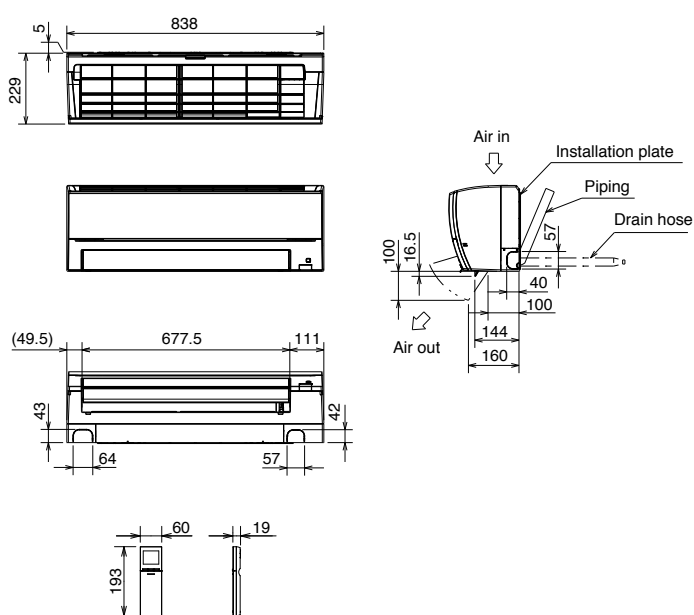
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MSZ-LN50VG2(W)(V)(R)(B) MSZ-LN60VG2(W)(V)(R)(B)**

INDOOR UNIT



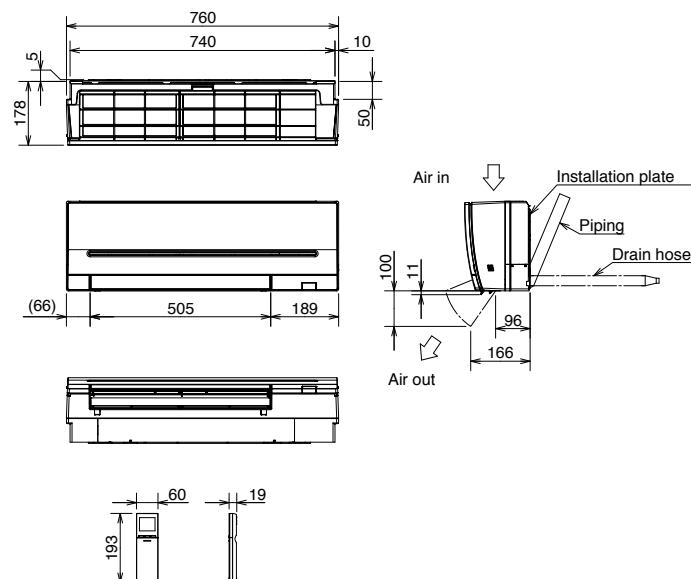
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MSZ-FT25VGK MSZ-FT35VGK MSZ-FT50VGK**

INDOOR UNIT



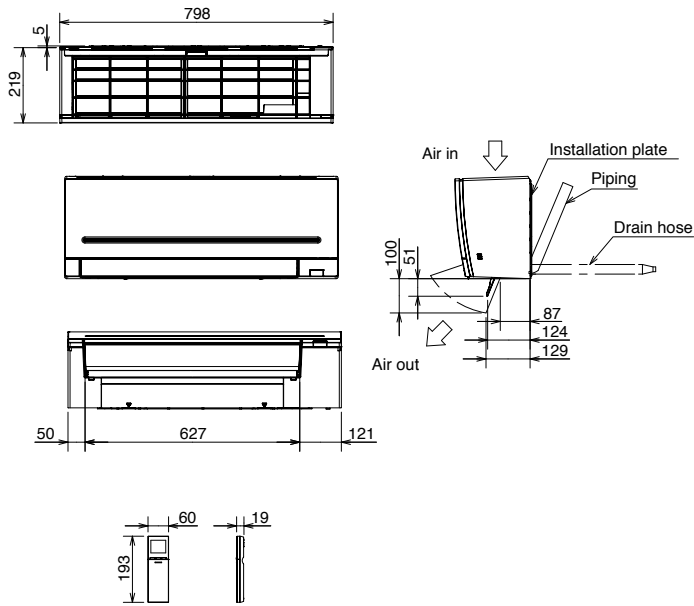
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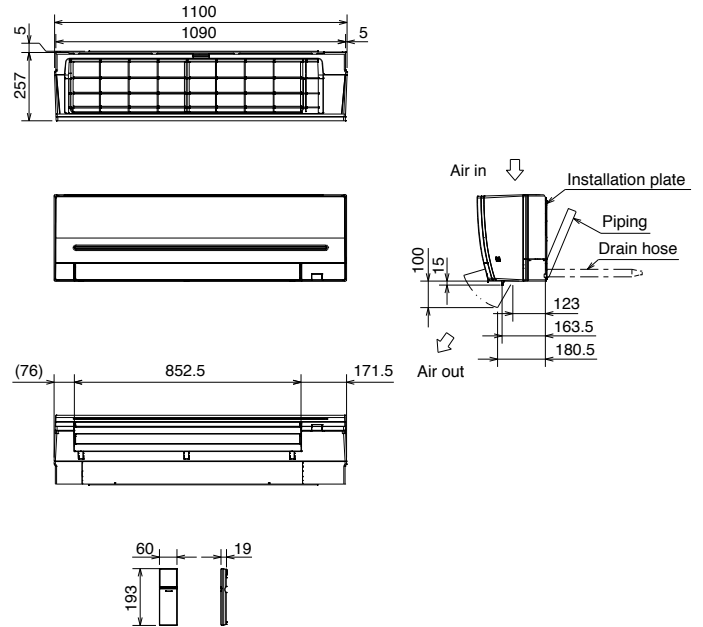
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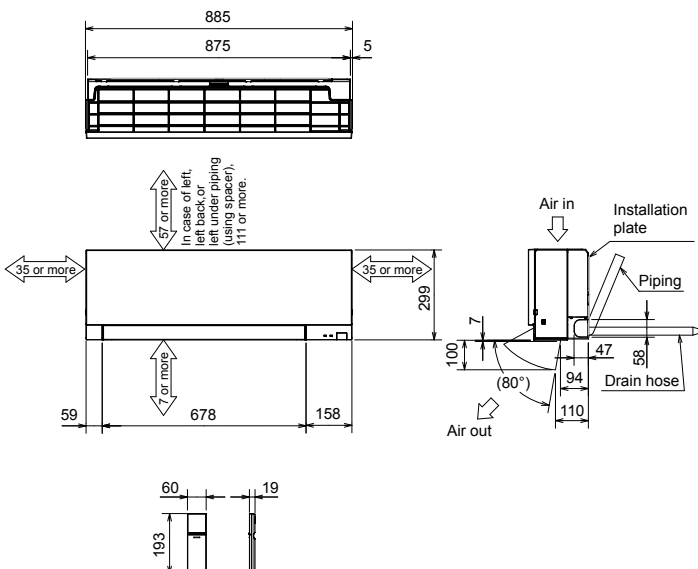
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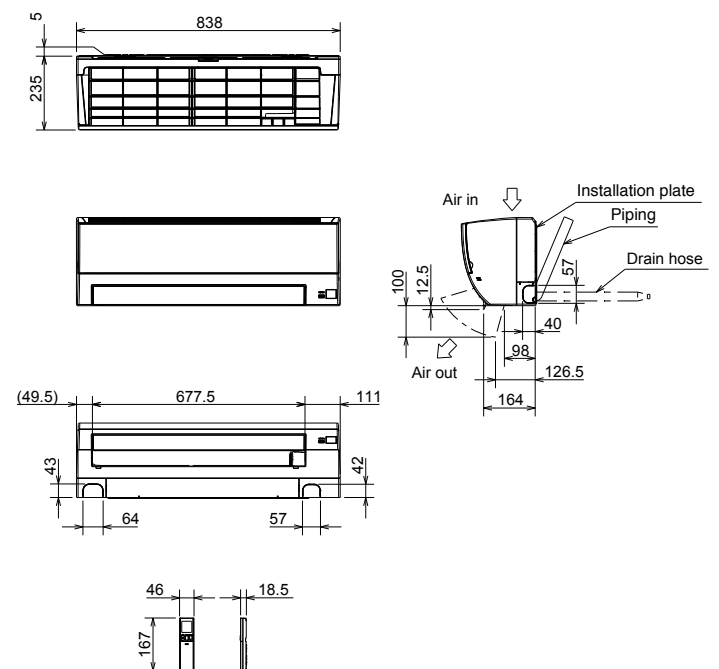
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MSZ-EF42VG(W)(B)(S) MSZ-EF50VG(W)(B)(S)
MSZ-EF18VGK(W)(B)(S) MSZ-EF22VGK(W)(B)(S)
MSZ-EF25VGK(W)(B)(S) MSZ-EF35VGK(W)(B)(S)
MSZ-EF42VGK(W)(B)(S) MSZ-EF50VGK(W)(B)(S)

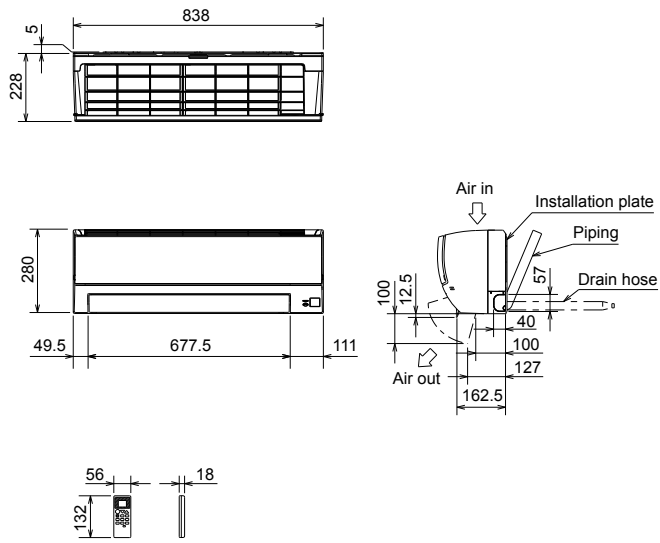
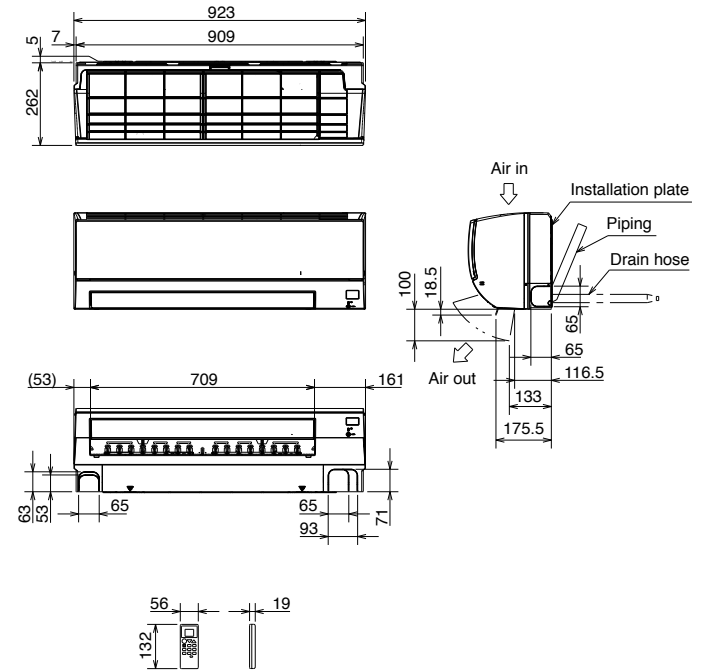
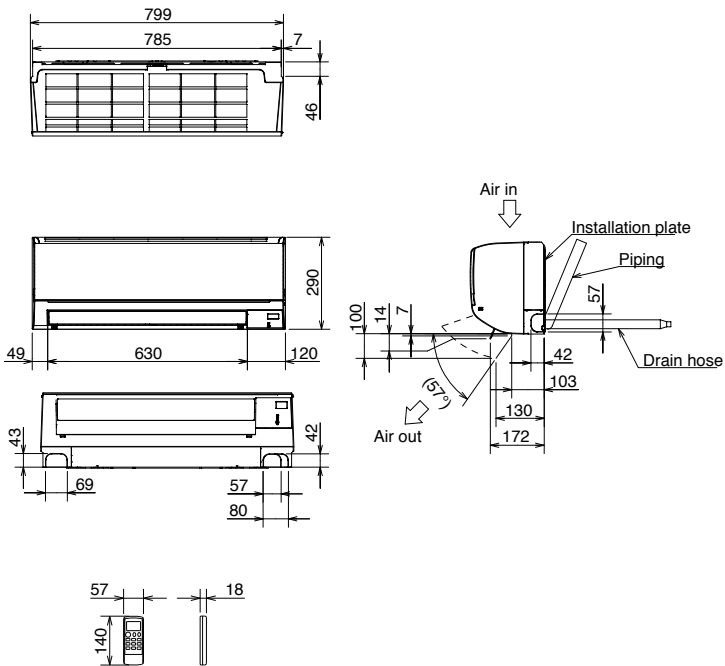
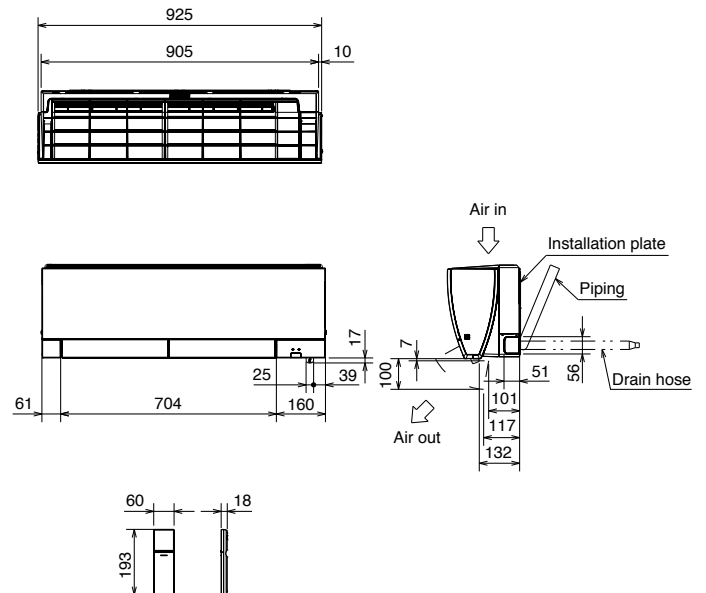
INDOOR UNIT

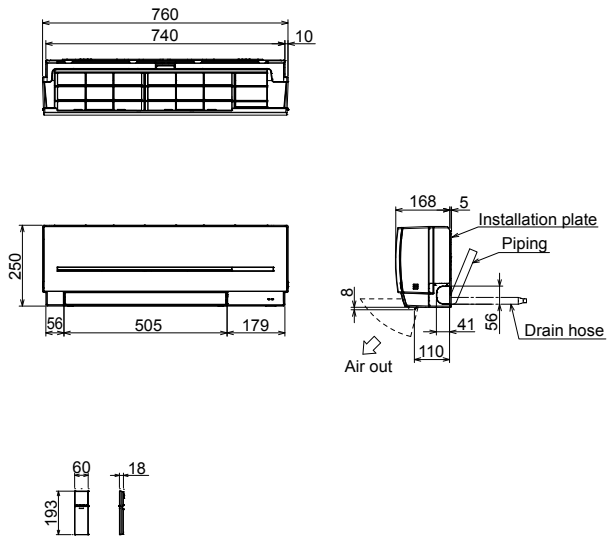
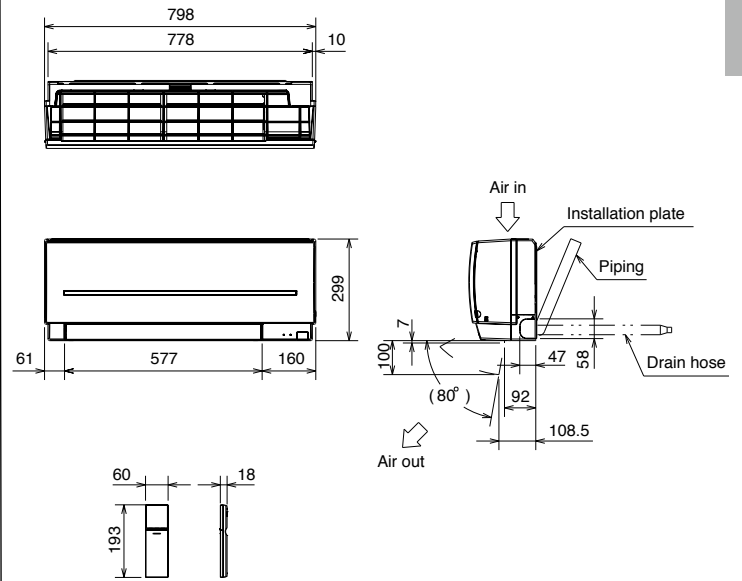
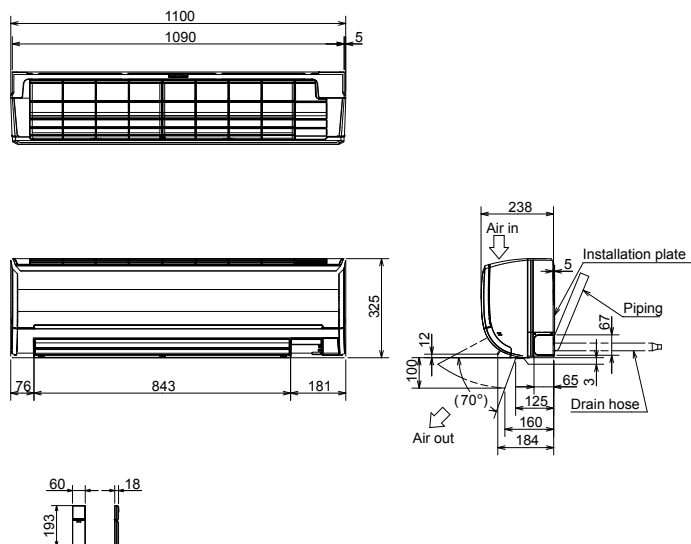
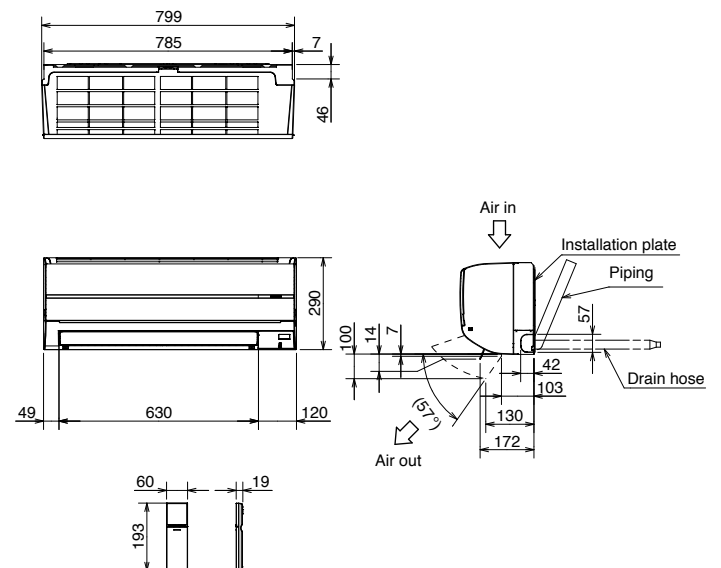


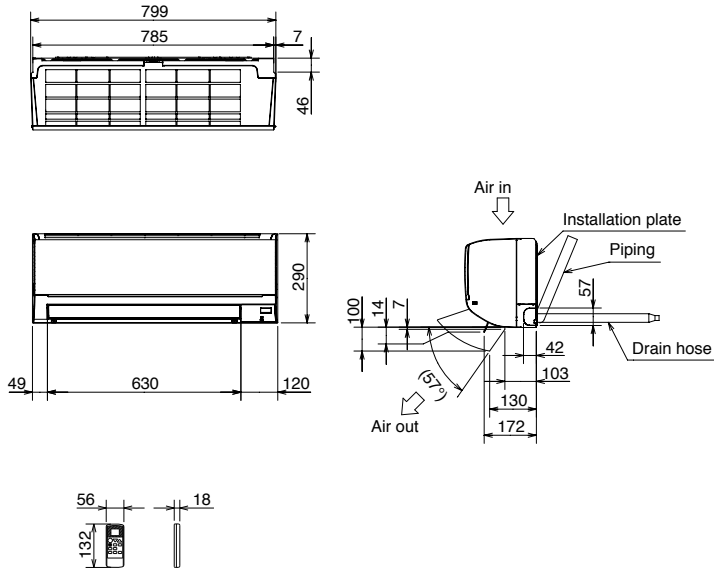
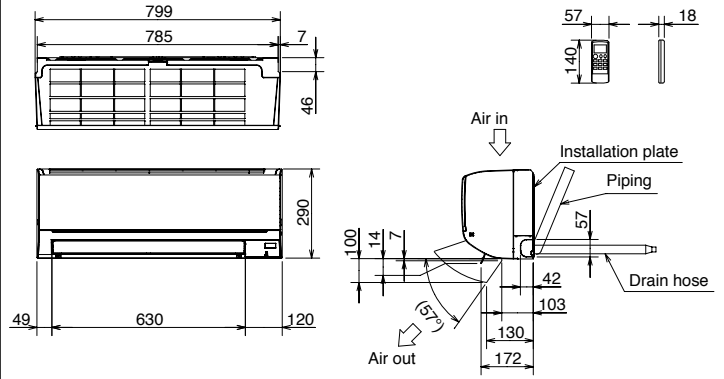
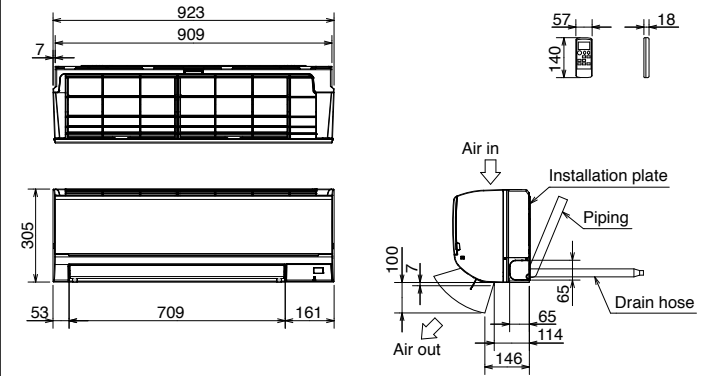
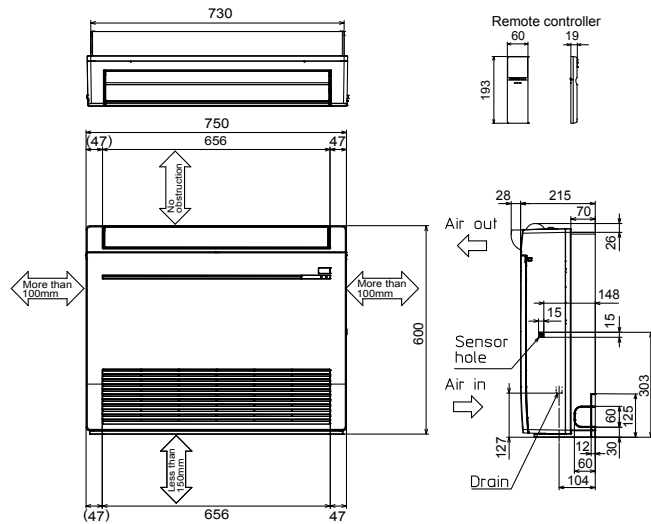
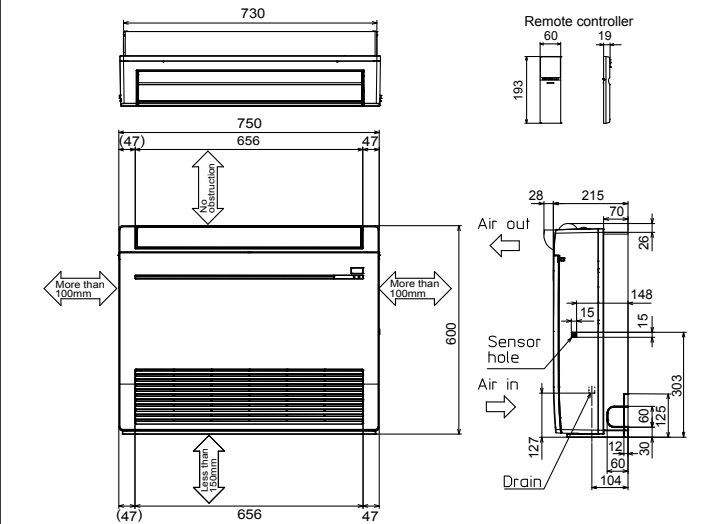
MSZ-BT20VG MSZ-BT25VG MSZ-BT35VG MSZ-BT50VG
MSZ-BT20VGK MSZ-BT25VGK MSZ-BT35VGK MSZ-BT50VGK

INDOOR UNIT



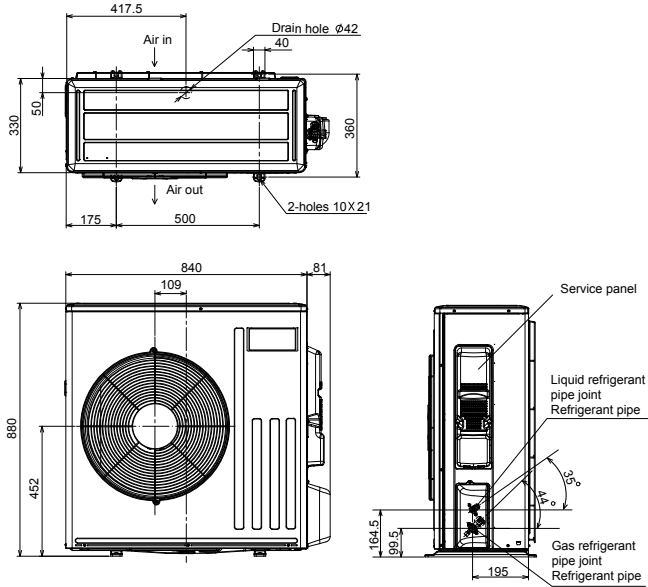
**MSZ-HR25VF(K) MSZ-HR35VF(K) MSZ-HR42VF(K)
MSZ-HR50VF(K)**
INDOOR UNIT

MSZ-HR60VF(K) MSZ-HR71VF(K)
INDOOR UNIT

MSZ-DW25VF MSZ-DW35VF MSZ-DW50VF
INDOOR UNIT

MSZ-FH25VE2 MSZ-FH35VE2 MSZ-FH50VE2
INDOOR UNIT


MSZ-SF15VA MSZ-SF20VA**INDOOR UNIT****MSZ-SF25VE3 MSZ-SF35VE3 MSZ-SF42VE3
MSZ-SF50VE3****INDOOR UNIT****MSZ-GF60VE2 MSZ-GF71VE2****INDOOR UNIT****MSZ-WN25VA MSZ-WN35VA****INDOOR UNIT**

MSZ-DM25VA MSZ-DM35VA
INDOOR UNIT

MSZ-HJ25VA MSZ-HJ35VA MSZ-HJ50VA
INDOOR UNIT

**MSZ-HJ60VA MSZ-HJ71VA
MSY-TP35VF MSY-TP50VF**

MFZ-KT25VG MFZ-KT35VG MFZ-KT50VG MFZ-KT60VG
INDOOR UNIT

MFZ-KW25VG MFZ-KW35VG MFZ-KW50VG MFZ-KW60VG
INDOOR UNIT


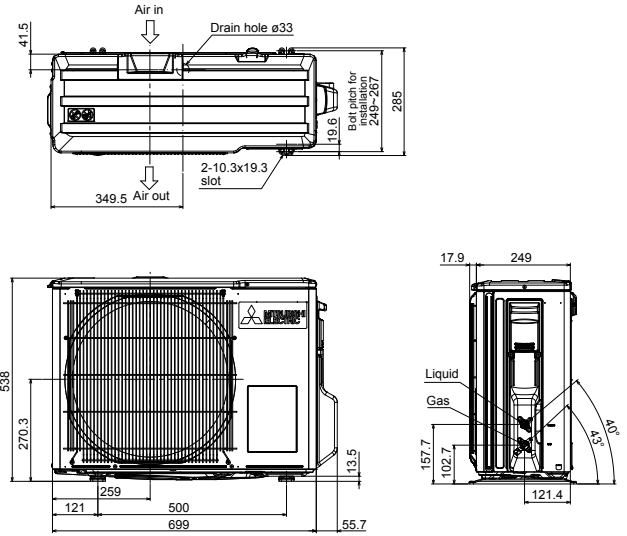
MUZ-LN50VGHZ MUZ-LN60VG
 MUZ-FH50VE MUZ-FH50VEHZ
 MUZ-SF50VE MUZ-SF50VEH
 MUZ-GF60VE MUZ-GF71VE
 MUZ-HJ60VA MUZ-HJ71VA
 MUFZ-KJ50VE MUFZ-KJ50VEHZ

OUTDOOR UNIT



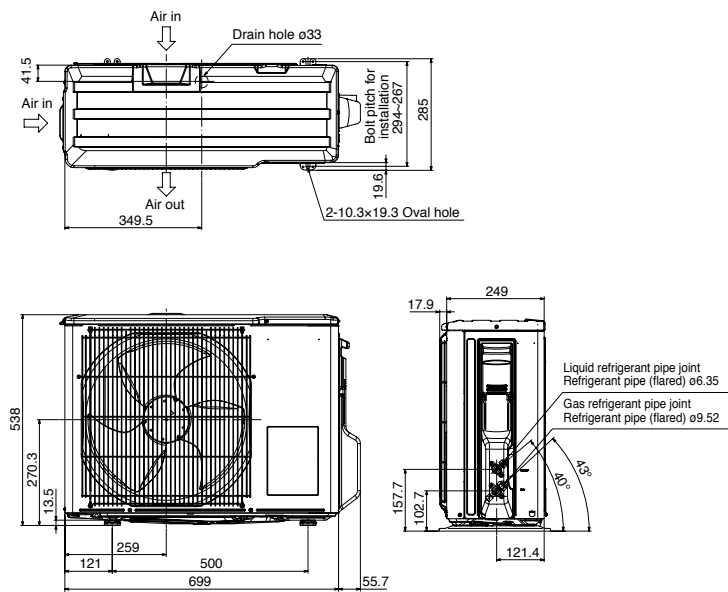
MUZ-AP15VG MUZ-BT20VG

OUTDOOR UNIT



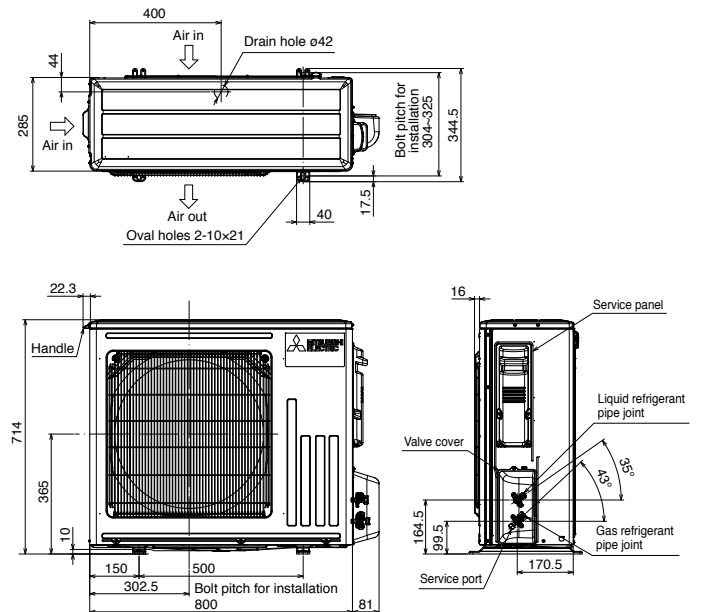
MUZ-WN25VA MUZ-WN35VA MUZ-HR25VF MUZ-BT25VG
 MUZ-DM25VA MUZ-DM35VA MUZ-HR35VF MUZ-BT35VG
 MUZ-HJ25VA MUZ-HJ35VA
 MUZ-DW25VF MUZ-DW35VF

OUTDOOR UNIT



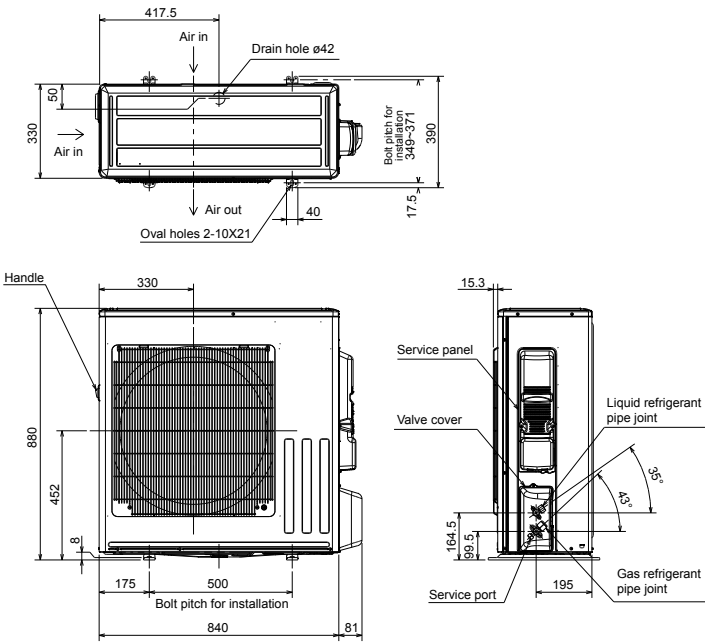
MUZ-RW25VGHZ MUZ-RW35VGHZ
 MUZ-LN50VG
 MUZ-FT35/50VGHZ
 MUZ-AP50VG MUZ-AP50VGH MUZ-AP60VG
 MUZ-EF50VG
 MUZ-HR60VF MUZ-HR71VF

OUTDOOR UNIT



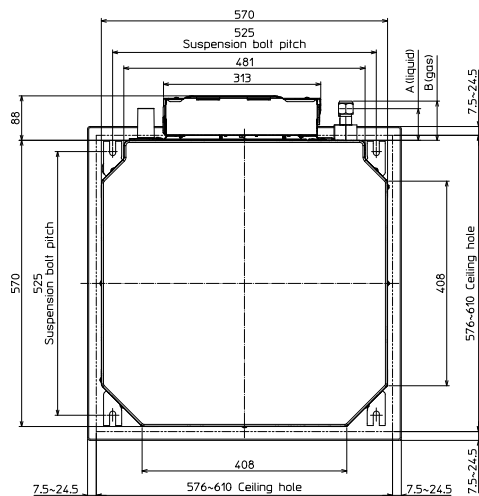
MUZ-RW50VGHZ

INDOOR UNIT

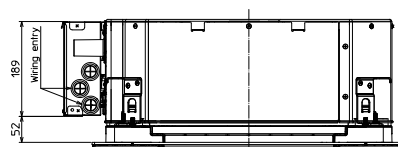
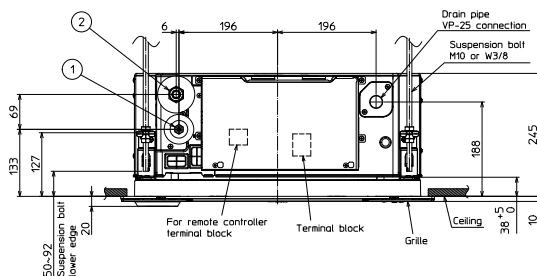


SLZ-M15FA2
SLZ-M25FA2 SLZ-M35FA2
SLZ-M50FA2 SLZ-M60FA2

INDOOR UNIT

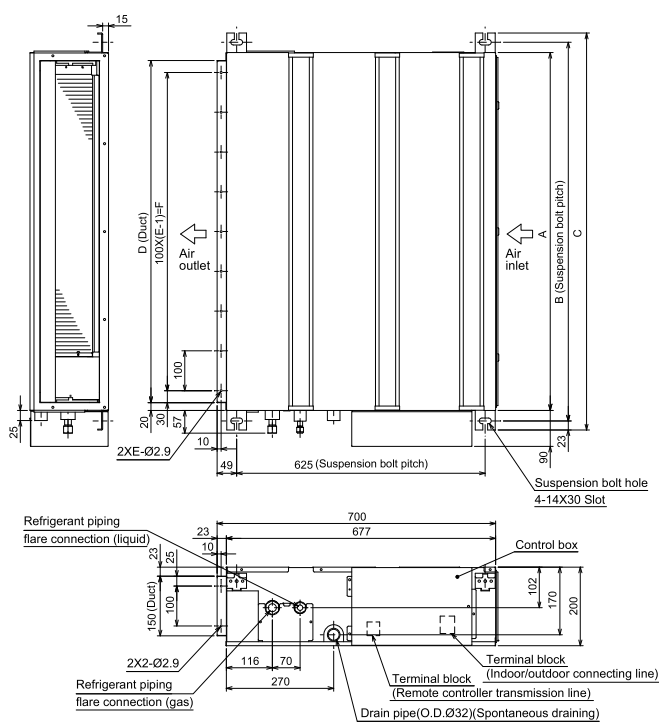


| Models | ① Refrigerant pipe (liquid) | ② Refrigerant pipe (gas) | A | B |
|--|-----------------------------------|------------------------------------|------|------|
| SLZ-M15FA2 SLZ-M25FA2 SLZ-M35FA2 | φ6.35mm flared connection 1/4F | φ9.52mm flared connection 3/8F | 63mm | 72mm |
| SLZ-M50FA2 | φ6.35mm flared connection 1/4F | φ12.7mm flared connection 1/2F | 63mm | 78mm |
| SLZ-M60FA2 | φ6.35mm flared connection 1/4F | φ15.88mm flared connection 5/8F | 63mm | 78mm |



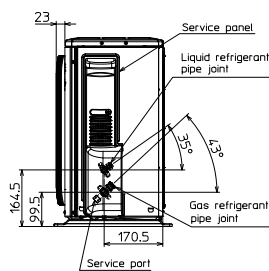
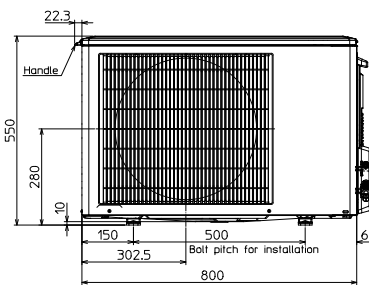
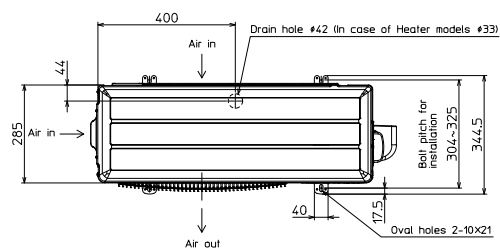
SEZ-M25DA(L)2 SEZ-M35DA(L)2 SEZ-M50DA(L)2
SEZ-M60DA(L)2 SEZ-M71DA(L)2

INDOOR UNIT



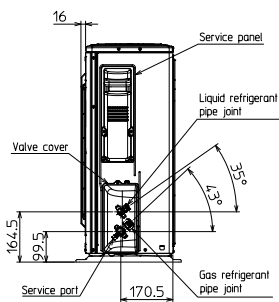
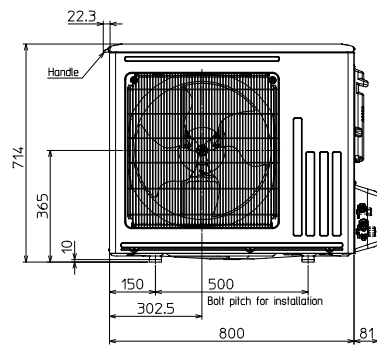
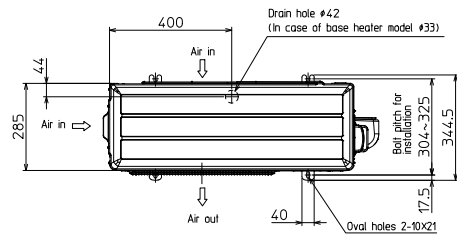
SUZ-M25VA SUZ-M35VA

OUTDOOR UNIT



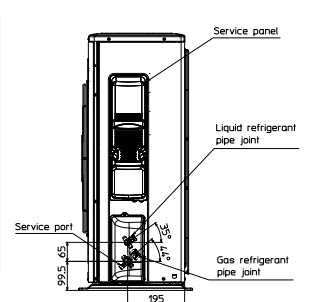
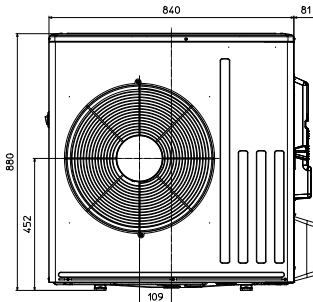
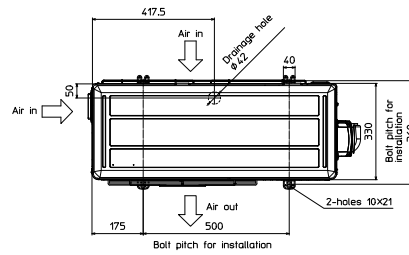
SUZ-M50VA

OUTDOOR UNIT



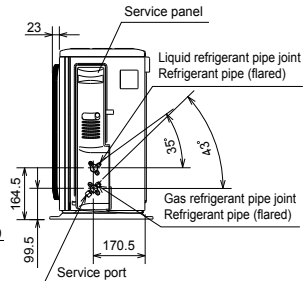
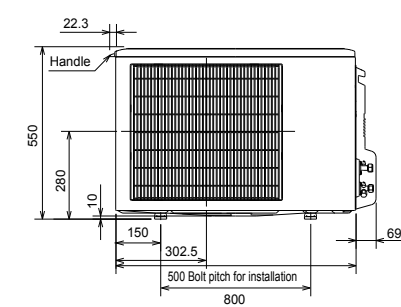
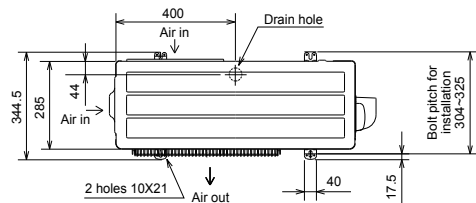
SUZ-M60VA SUZ-M71VA

INDOOR UNIT



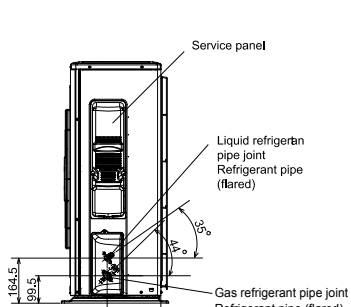
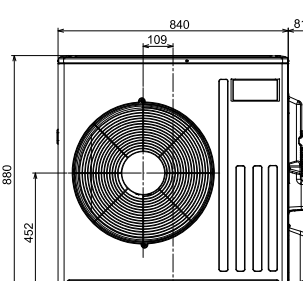
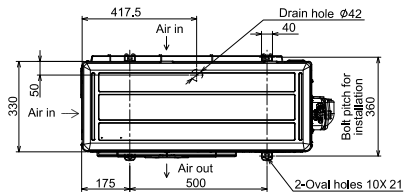
SUZ-KA25VA6 SUZ-KA35VA6

INDOOR UNIT



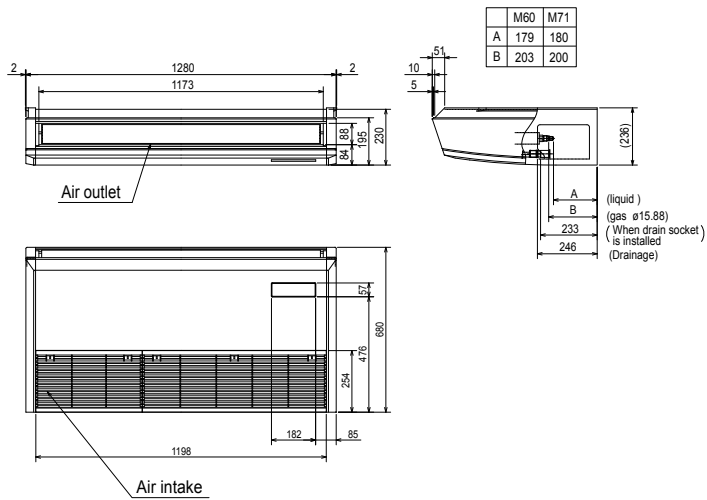
SUZ-KA50VA6 SUZ-KA60VA6 SUZ-KA71VA6

INDOOR UNIT



PCA-M60KA2 PCA-M71KA2

INDOOR UNIT



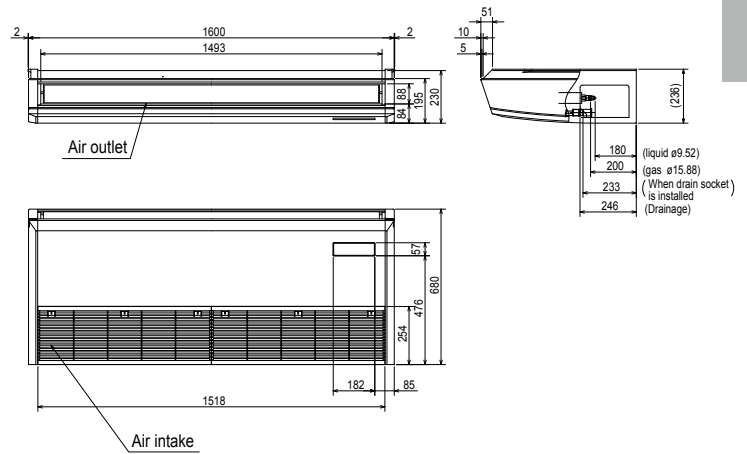
NOTES.

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-M100KA2 PCA-M125KA2 PCA-M140KA2

INDOOR UNIT

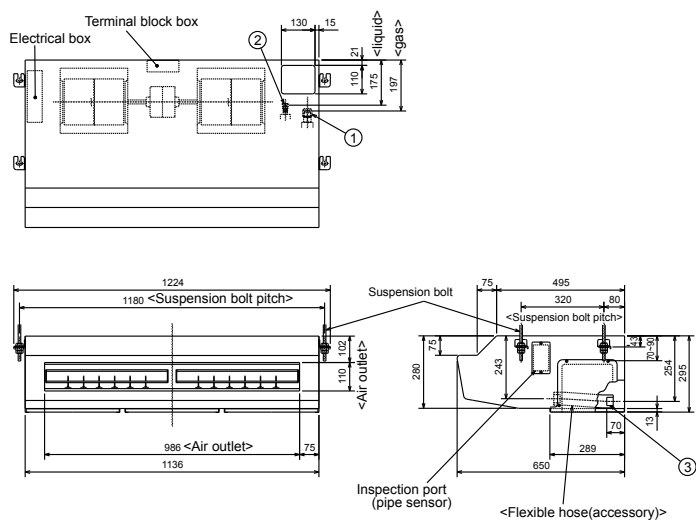


NOTES.

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-M71HA2

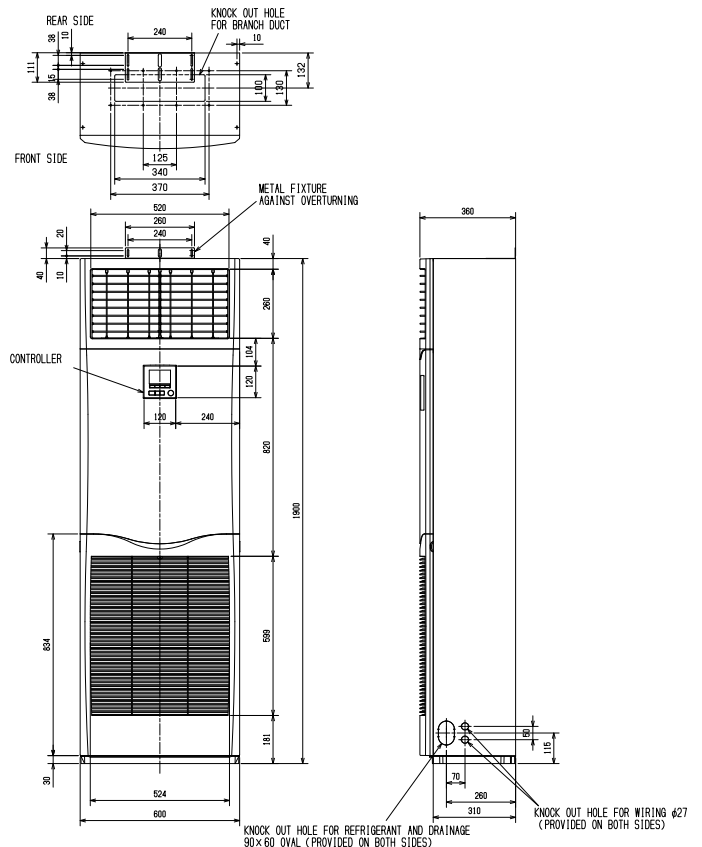
INDOOR UNIT



- ① Refrigerant pipe connection(gas pipe side/flared connection)
- ② Refrigerant pipe connection(liquid pipe side/flared connection)
- ③ Flexible hose(accessory) → Drainage pipe connection

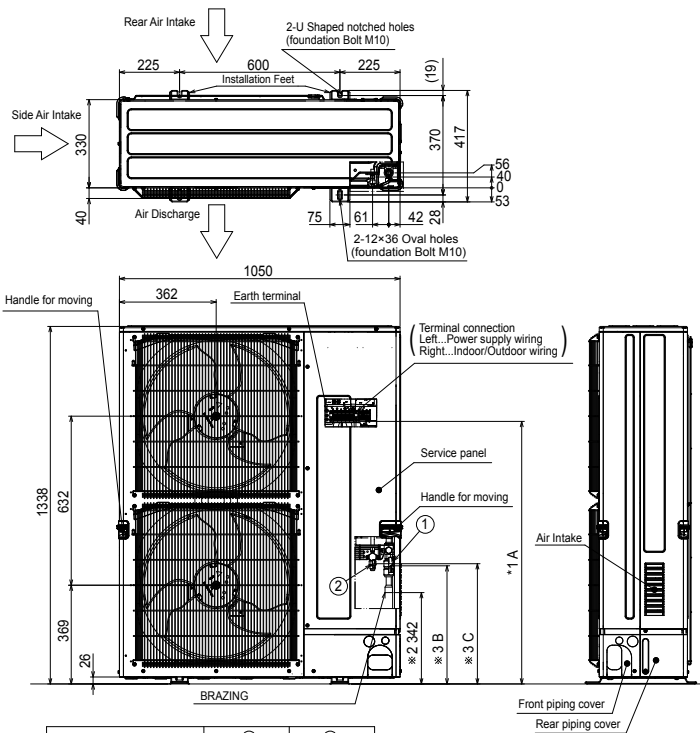
PSA-M71KA PSA-M100KA PSA-M125KA PSA-M140KA

INDOOR UNIT



PUZ-ZM200YKA2 PUHZ-ZM250YKA2

OUTDOOR UNIT

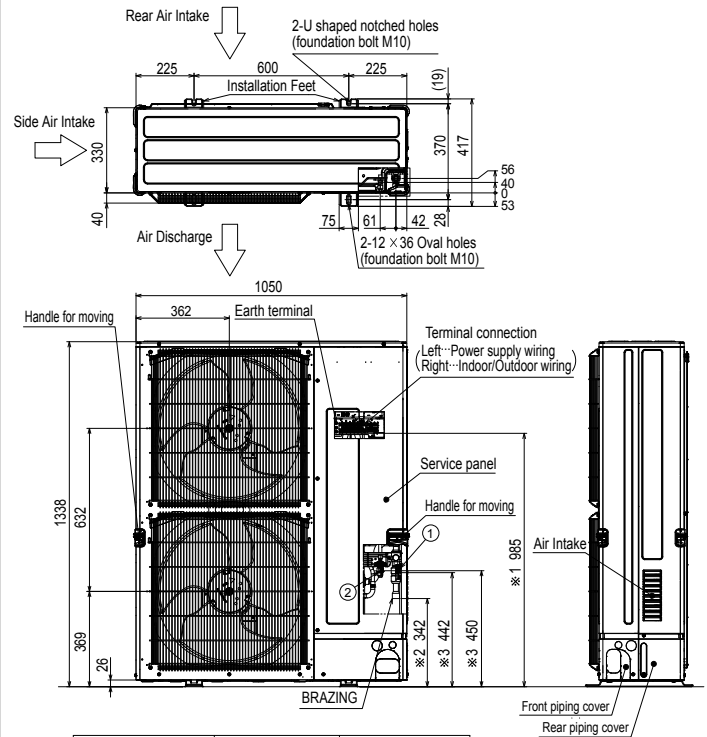


| Model | ① Refrigerant GAS pipe connection | ② Refrigerant LIQUID pipe connection |
|-------------------|--|---|
| PUZ-ZM/M200YKA.UK | ø19.05 (3/4F) | ø9.52 (3/8F) |
| PUZ-ZM/M250YKA.UK | ø19.05 (3/4F) | ø12.7 (1/2F) |

| Model | A | B | C | |
|-----------------------|-----|-----|-----|---|
| PUZ-ZM/M200,250YKA.UK | 985 | 442 | 450 | ※ 1...Indication of Terminal connection location. ※ 2...Refrigerant GAS PIPE connection (BRAZING) O.Dø25.4. ※ 3...Indication of STOP VALVE connection location. |

PUHZ-ZRP200YKA3 PUHZ-ZRP250YKA3

OUTDOOR UNIT

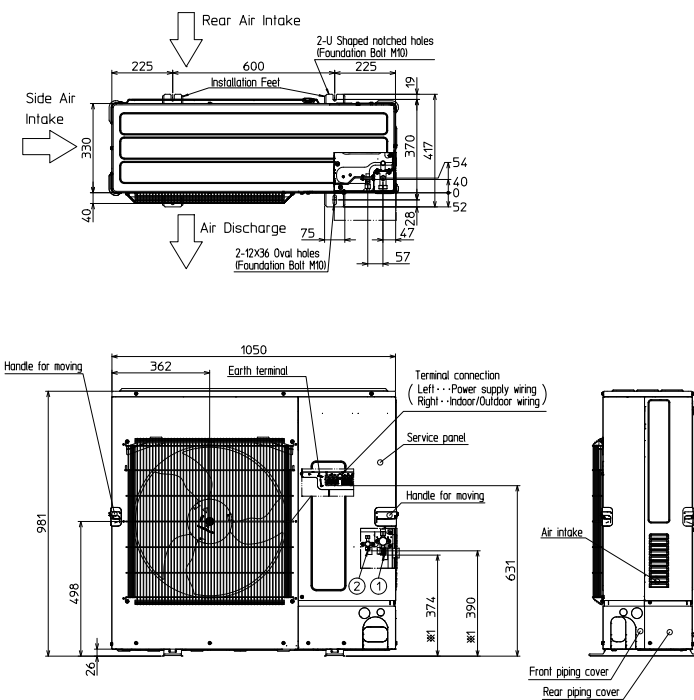


| Model | ① Refrigerant GAS pipe connection | ② Refrigerant LIQUID pipe connection |
|-----------------|---|--|
| PUHZ-ZRP200YKA3 | ø19.05 (3/4F) | ø9.52 (3/8F) |
| PUHZ-ZRP250YKA3 | ø19.05 (3/4F) | ø12.7 (1/2F) |

- *1---Indication of Terminal connection location.
- *2---Refrigerant GAS pipe connection (BRAZING) O.Dø25.4.
- *3---Indication of STOP VALVE connection location.

PUZ-M100VKA2 PUZ-M100YKA2
PUZ-M125VKA2 PUZ-M125YKA2
PUZ-M140VKA2 PUZ-M140YKA2

OUTDOOR UNIT

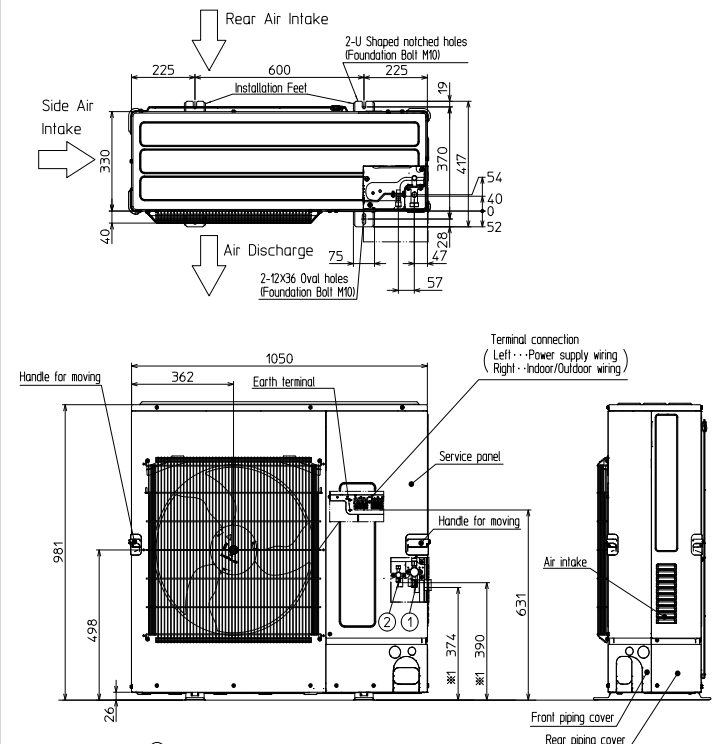


Example Of Notes

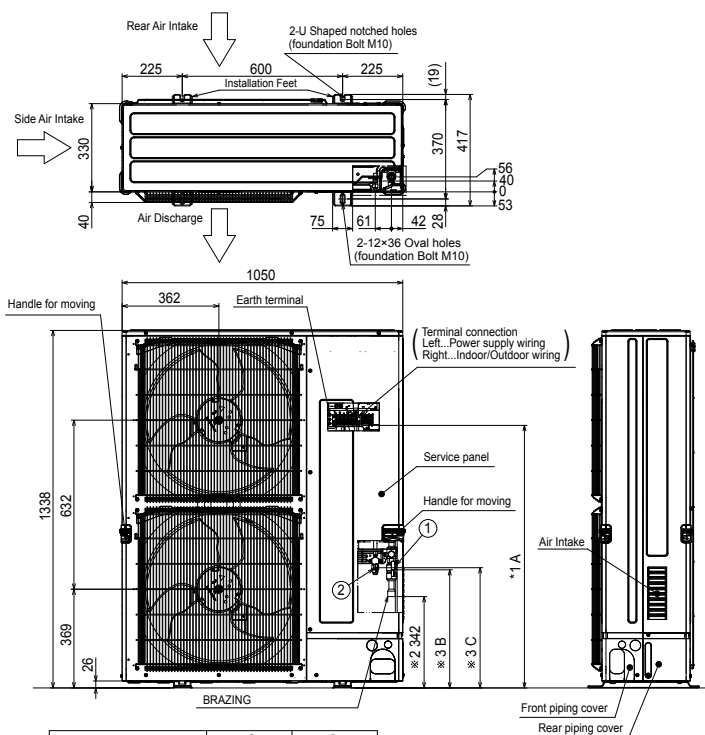
- ①...Refrigerant GAS pipe connection (FLARE) Ø15.88 (5/8F)
 ②...Refrigerant LIQUID pipe connection (FLARE) Ø9.52 (3/8F)
 ※1...Indication of STOP VALVE connection location.

| | |
|--------------|--------------|
| PUHZ-P100VKA | PUHZ-P100YKA |
| PUHZ-P125VKA | PUHZ-P125YKA |
| PUHZ-P140VKA | PUHZ-P140YKA |

OUTDOOR UNIT



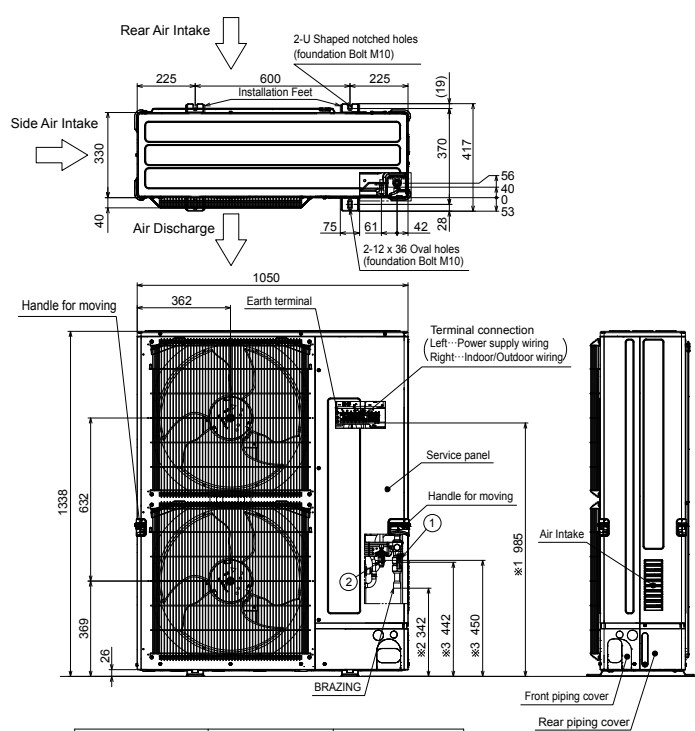
- ①...Refrigerant GAS pipe connection (FLARE) Ø15.88 (5/8F)
②...Refrigerant LIQUID pipe connection (FLARE) Ø9.52 (3/8F)
※1...Indication of STOP VALVE connection location.

PUZ-M200YKA2 PUZ-M250YKA2**OUTDOOR UNIT**

| Model | ① Refrigerant GAS pipe connection | ② Refrigerant LIQUID pipe connection |
|-------------------|--|---|
| PUZ-ZM/M200YKA.UK | ø19.05 (3/4F) | ø9.52 (3/8F) |
| PUZ-ZM/M250YKA.UK | ø19.05 (3/4F) | ø12.7 (1/2F) |

| Model | A | B | C |
|-----------------------|-----|-----|-----|
| PUZ-ZM/M200,250YKA.UK | 985 | 442 | 450 |

*1...Indication of Terminal connection location.
 *2...Refrigerant GAS PIPE connection (BRAZING) O.D.ø25.4.
 *3...Indication of STOP VALVE connection location.

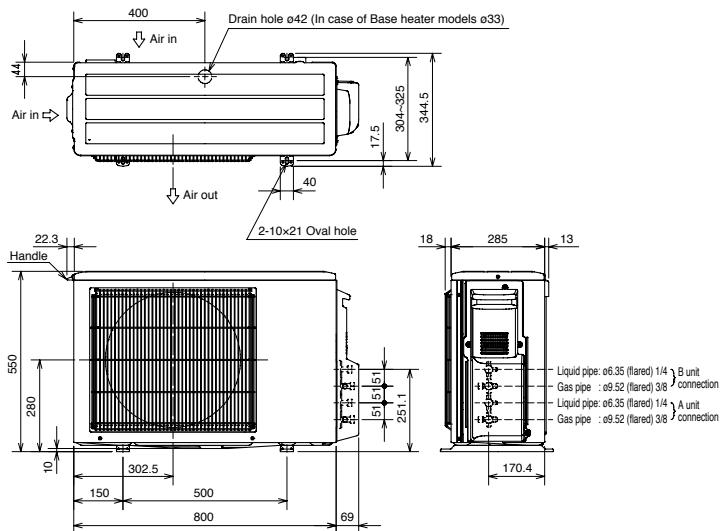
PUHZ-P200YKA3 PUHZ-P250YKA3**OUTDOOR UNIT**

| Model | ① Refrigerant GAS pipe connection | ② Refrigerant LIQUID pipe connection |
|---------------|---|--|
| PUHZ-P200YKA3 | ø19.05 (3/4F) | ø9.52 (3/8F) |
| PUHZ-P250YKA3 | ø19.05 (3/4F) | ø12.7 (1/2F) |

*1--Indication of Terminal connection location.
 *2--Refrigerant GAS pipe connection (BRAZING) O.D.ø25.4.
 *3--Indication of STOP VALVE connection location.

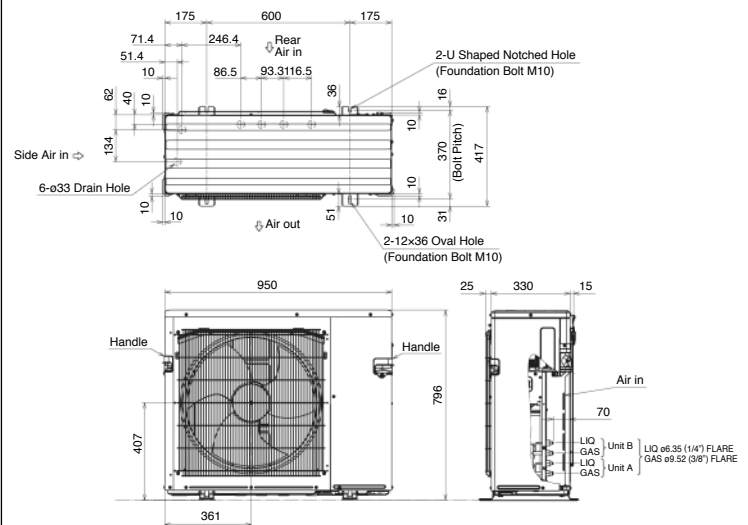
MXZ-2D33VA MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2
MXZ-2DM40VA MXZ-2HA40VF MXZ-2HA50VF
MXZ-2F33VF3 MXZ-2F42VF3 MXZ-2F53VF3 MXZ-2F53VFH3

OUTDOOR UNIT



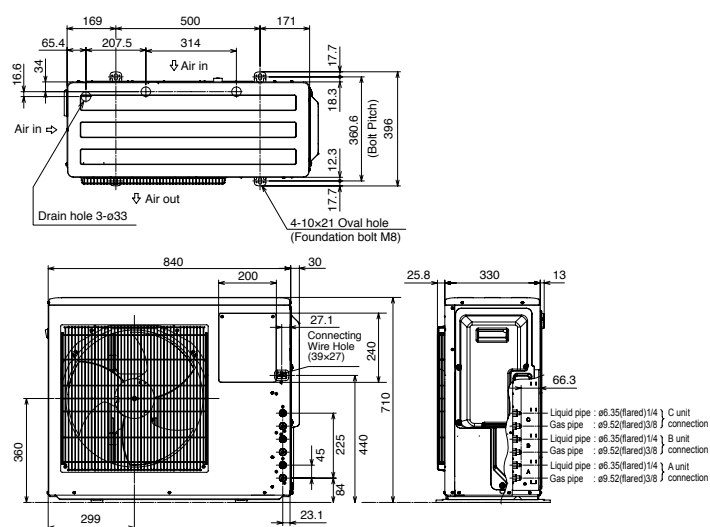
MXZ-2E53VAHZ MXZ-2F53VFH3

OUTDOOR UNIT



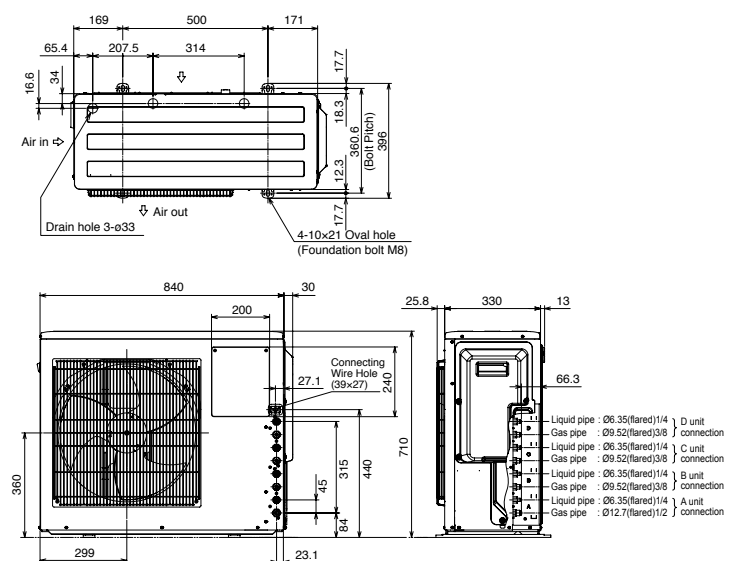
MXZ-3E54VA MXZ-3E68VA
MXZ-3DM50VA MXZ-3HA50VF
MXZ-3F54VF3 MXZ-3F68VF3

OUTDOOR UNIT

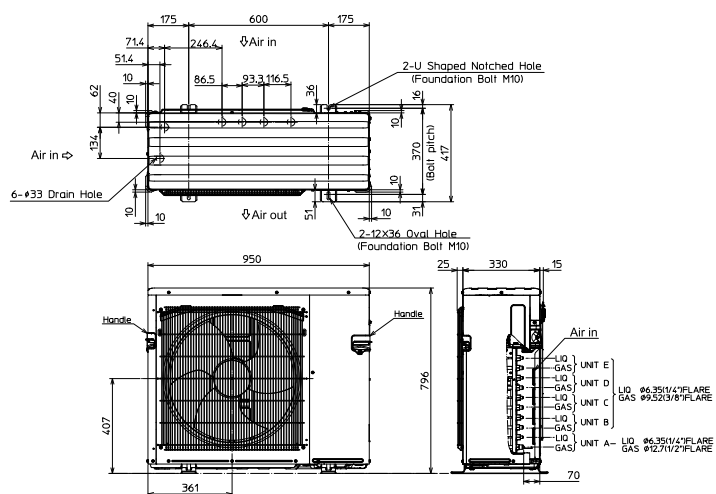


MXZ-4E72VA
MXZ-4F72VF3 MXZ-4F80VF3

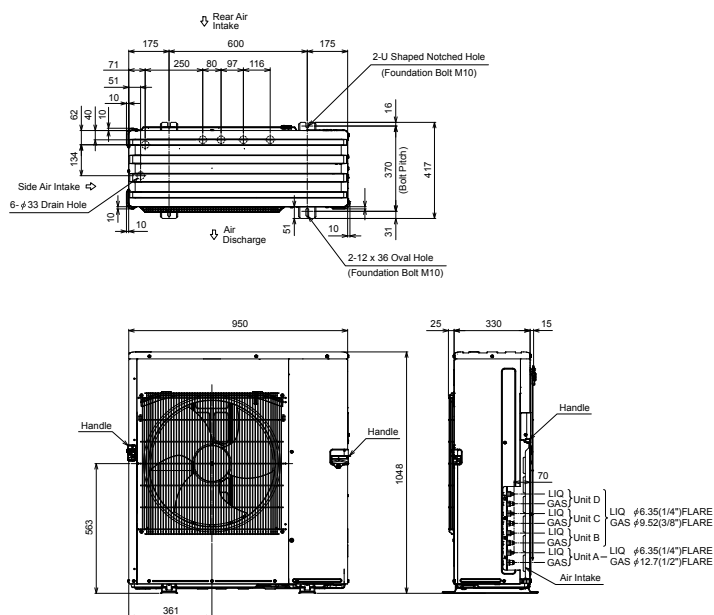
OUTDOOR UNIT



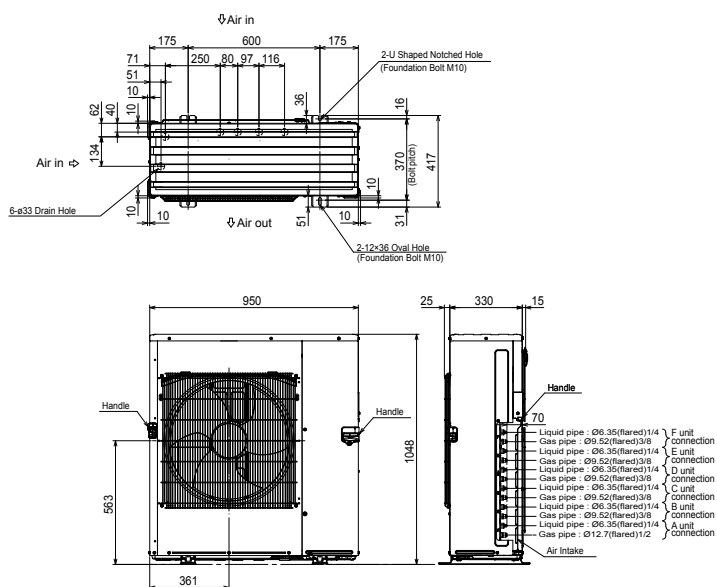
OUTDOOR UNIT



OUTDOOR UNIT

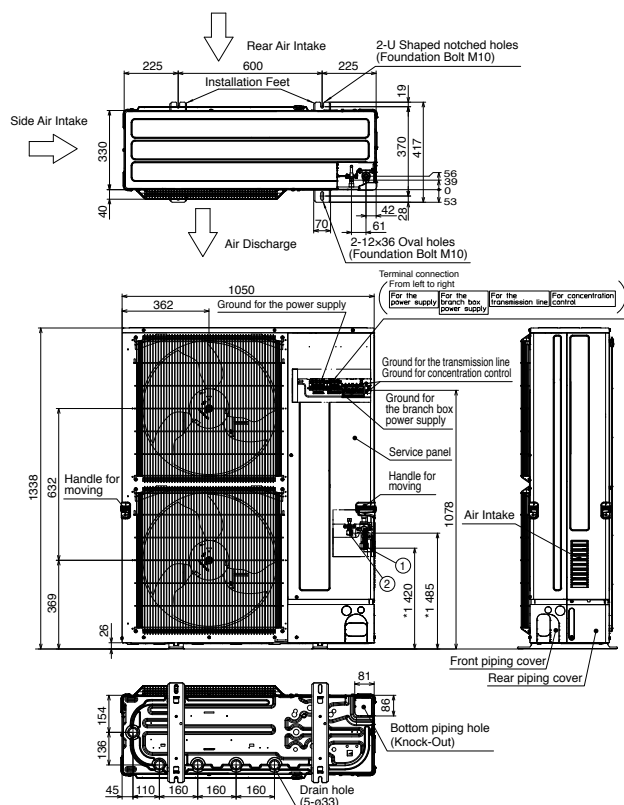


OUTDOOR UNIT



PUMY-P112/125/140VKM5(-BS)

OUTDOOR UNIT

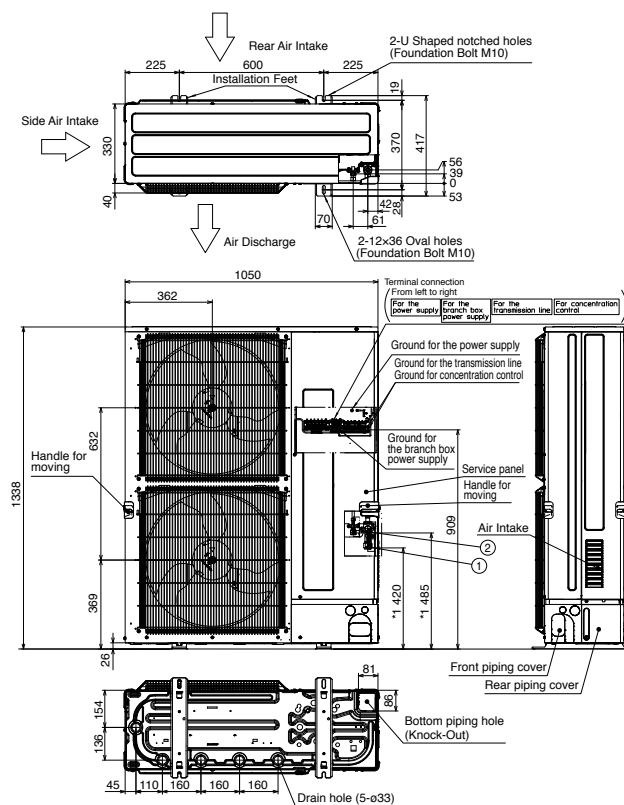


Example of Notes

- ① --- Refrigerant GAS pipe connection (FLARE) ø15.88 (5/8F)
- ② --- Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
- *1 --- Indication of STOP VALVE connection location.

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

OUTDOOR UNIT

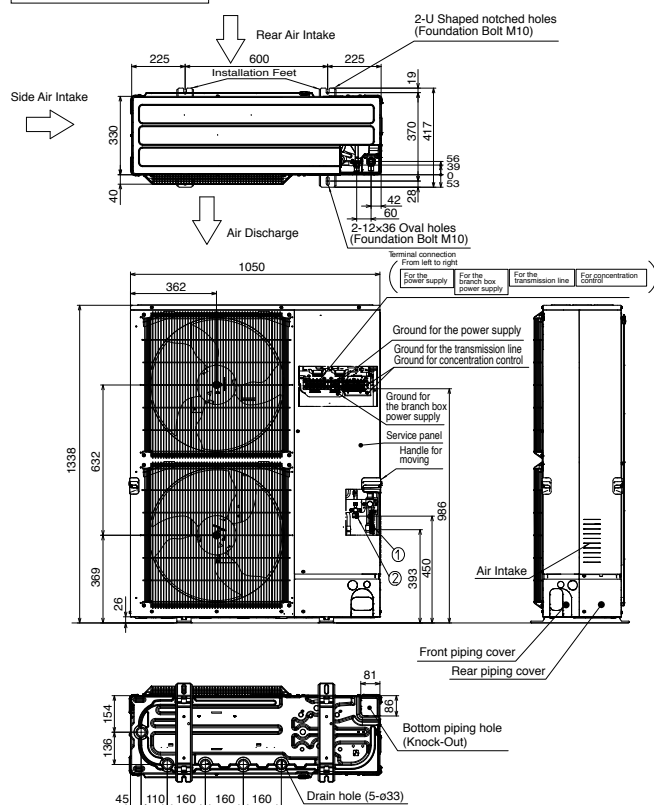


Example of Notes

- ① --- Refrigerant GAS pipe connection (FLARE) ø15.88 (5/8F)
- ② --- Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
- *1 --- Indication of STOP VALVE connection location.

PUMY-P200YKM2(-BS)

OUTDOOR UNIT

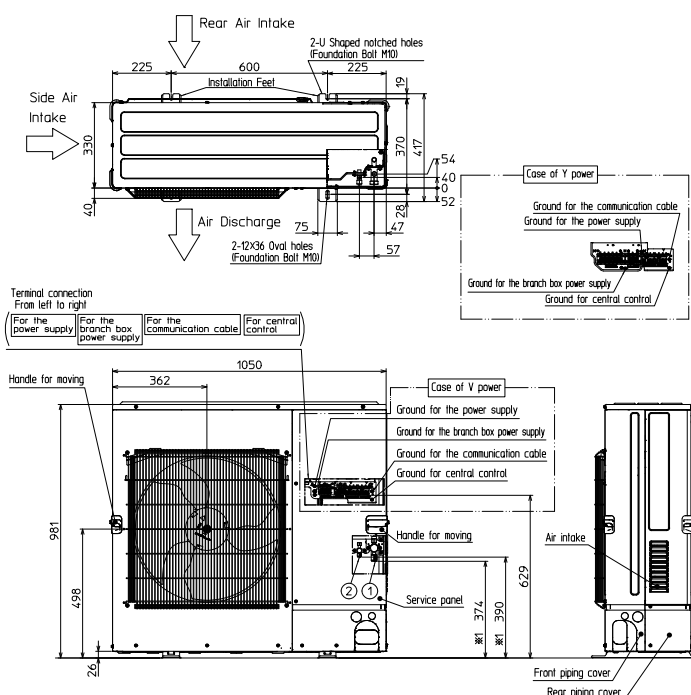


Example of Notes

- ① --- Refrigerant GAS pipe connection (FLARE) ø19.05 (3/4F)
- ② --- Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
- *1 --- Indication of STOP VALVE connection location.

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

OUTDOOR UNIT



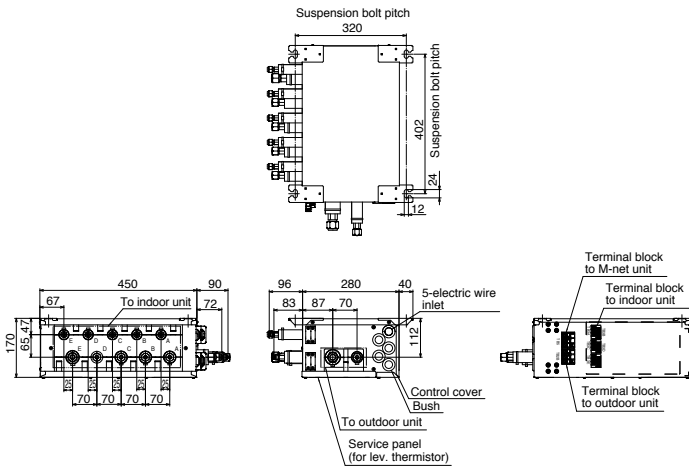
Example of Notes

- ① --- Refrigerant GAS pipe connection (FLARE) ø15.88 (5/8F)
- ② --- Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
- *1 --- Indication of STOP VALVE connection location.

PAC-MK54BC

Suspension bolt: W3/W8 (M10)

Branch box



Suspension bolt : W3/8(M10)

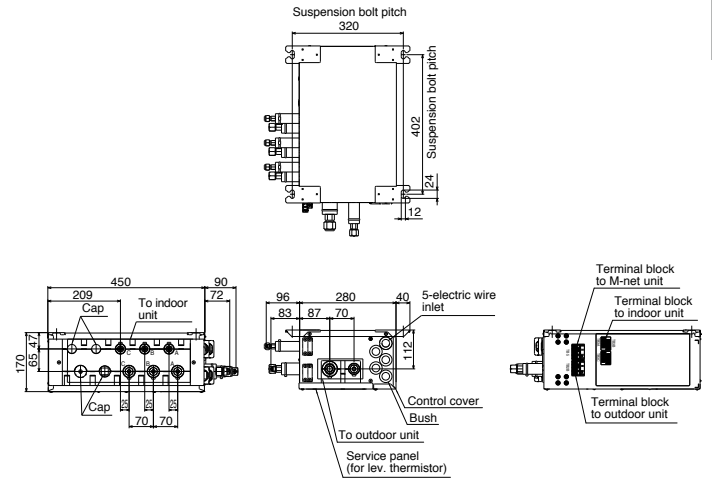
Refrigerant pipe flared connection

| | A | B | C | D | E | To outdoor unit |
|-------------|------|------|------|------|------|-----------------|
| Liquid pipe | 1/4F | 1/4F | 1/4F | 1/4F | 1/4F | 3/8F |
| Gas pipe | 3/8F | 3/8F | 3/8F | 3/8F | 1/2F | 5/8F |

PAC-MK34BC

Suspension bolt: W3/W8 (M10)

Branch box



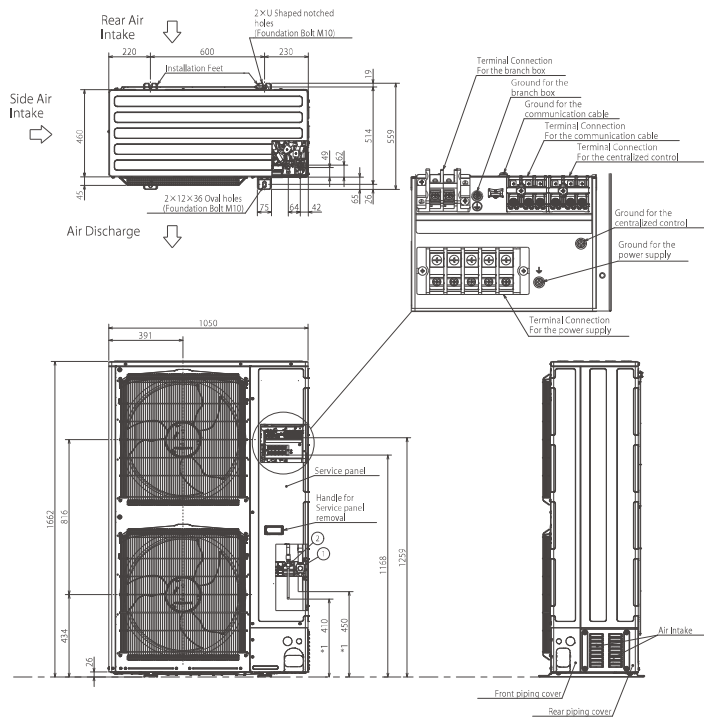
Suspension bolt : W3/8(M10)

Refrigerant pipe flared connection

| | | | | | | |
|-------------|------|------|------|--|--|-----------------|
| | A | B | C | | | To outdoor unit |
| Liquid pipe | 1/4F | 1/4F | 1/4F | | | 3/8F |
| Gas pipe | 3/8F | 3/8F | 3/8F | | | 5/8F |

PUMY-P250YBM(-BS)
PUMY-P300YBM(-BS)

OUTDOOR UNIT



Example of Notes

- ① • • • Refrigerant GAS pipe connection Ø22.2(7/8F)
② • • • Refrigerant LIQUID pipe connection Ø9.52(3/8F)
*1 • • • Indication of STOP VALVE and BALL VALVE connection location.

Piping Installation

M SERIES

Single type

| Series | Class <Outdoor unit> | Maximum Piping Length (m) | Maximum Height Difference (m) | Maximum Number of Bends |
|----------------|-------------------------|---------------------------|--------------------------------|-------------------------|
| | | Total length (A) | Outdoor unit - Indoor unit (H) | Total number |
| MSZ-RW | 25 / 35 | 20 | 12 | 10 |
| | 50 | 30 | 15 | 10 |
| 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-DW | 25 / 35 / 50 | 20 | 12 | 10 |
| MSY-TP | 35 / 50 | 20 | 12 | 10 |
| MSZ-F MFZ | 25 / 35 | 20 | 12 | 10 |
| | 50 | 30 | 15 | 10 |
| MSZ-S | 25 / 35 / 42 | 20 | 12 | 10 |
| | 50 / 60 | 30 | 15 | 10 |
| MSZ-G | 60 / 71 | 30 | 15 | 10 |
| MSZ-W 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

| Series | Class <Outdoor unit> | Maximum Piping Length (m) | Maximum Height Difference (m) | Maximum Number of Bends |
|-------------------------------------|-------------------------|---------------------------|--------------------------------|-------------------------|
| | | 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 | 15 |
| | 125 / 140 | 65 | | |
| 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

| Series | Class <Outdoor unit> | Maximum Piping Length (m) | | | Maximum Height Difference (m) | | Maximum Number of Bends |
|----------------------------|-------------------------|---------------------------|--|---|------------------------------------|-----------------------------------|-------------------------|
| | | Total length A+B+C | Pipe length difference from distribution pipe B-C | Indoor unit - Distribution pipe B | Outdoor unit - Indoor unit H | Indoor unit - Indoor unit 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 | 8 | 20 | 30 | 1 | 15 |
| | 125 / 140 | 65 | | | | | |
| | 200 / 250 | | | | | | |
| Standard Inverter (PUHZ-P) | 100 / 125 / 140 | 50 | 8 | 20 | 30 | 1 | 15 |
| | 200 / 250 | 70 | 8 | 30 | 30 | 1 | 15 |

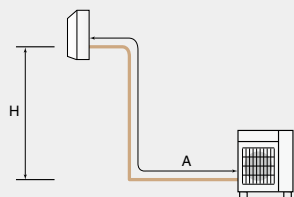
Triple type

| Series | Class <Outdoor unit> | Maximum Piping Length (m) | | | Maximum Height Difference (m) | | Maximum Number of Bends |
|----------------------------|-------------------------|---------------------------|--|---|------------------------------------|-----------------------------------|-------------------------|
| | | Total length A+B+C+D | Pipe length difference from distribution pipe B-C | Indoor unit - Distribution pipe B | Outdoor unit - Indoor unit H | Indoor unit - Indoor unit 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

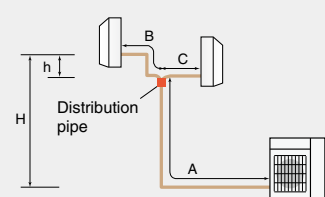
| Series | Class <Outdoor unit> | Maximum Piping Length (m) | | | Maximum Height Difference (m) | | Maximum Number of Bends |
|-----------------------------------|-------------------------|---------------------------|--|---|------------------------------------|-----------------------------------|-------------------------|
| | | Total length A+B+C+D+E | Pipe length difference from distribution pipe B-C | Indoor unit - Distribution pipe B | Outdoor unit - Indoor unit H | Indoor unit - Indoor unit 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 |

Single type



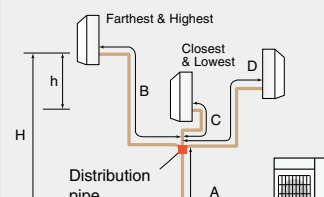
Twin type

Total length A+B+C



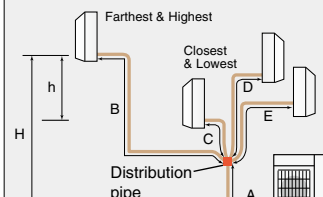
Triple type

Total length A+B+C+D



Quadruple type

Total length A+B+C+D+E



MXZ SERIES

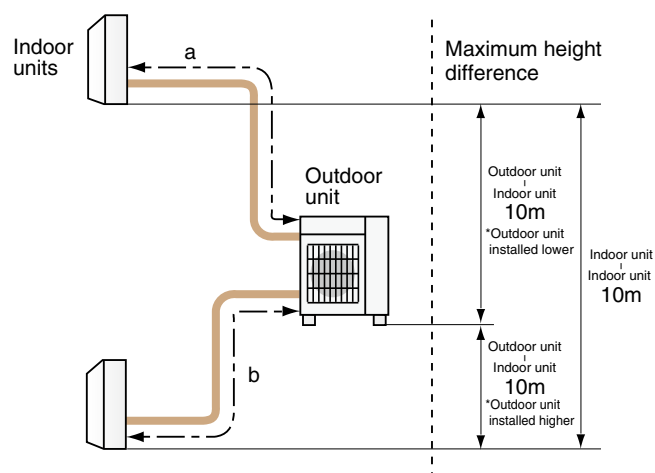
MXZ-2D33VA, MXZ-2F33VF3

| 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 |

* 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

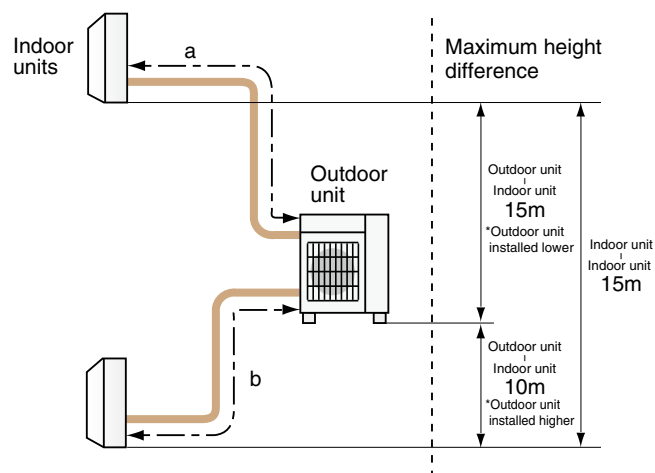
| Maximum Piping Length | |
|----------------------------------|-----|
| Outdoor unit - Indoor unit (a,b) | 20m |
| Total length (a+b) | 30m |

| 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 |



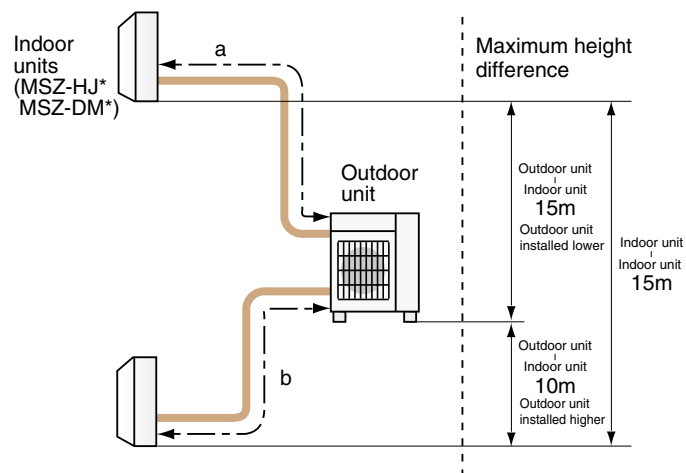
* When connecting MFZ-KJ Series indoor unit to MXZ-2D42VA2 or MXZ-2D53VA(H)2, additional refrigerant is required. For details, please contact Mitsubishi Electric.

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 |

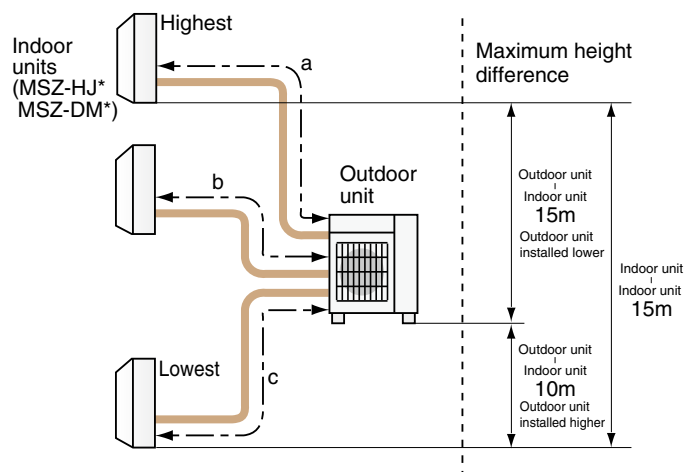


* Only MSZ-HJ and DM model is connectable.

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 |

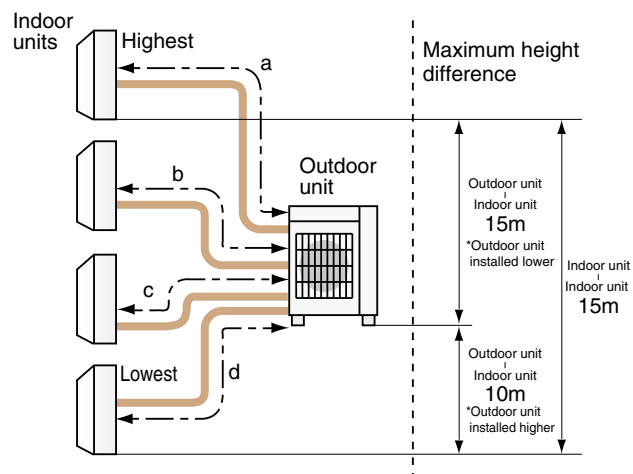
| Maximum Number of Bends | |
|--------------------------------------|----|
| Outdoor unit - Indoor unit (a,b,c,d) | 25 |
| Total number (a+b+c+d) | 60 |

* 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 |

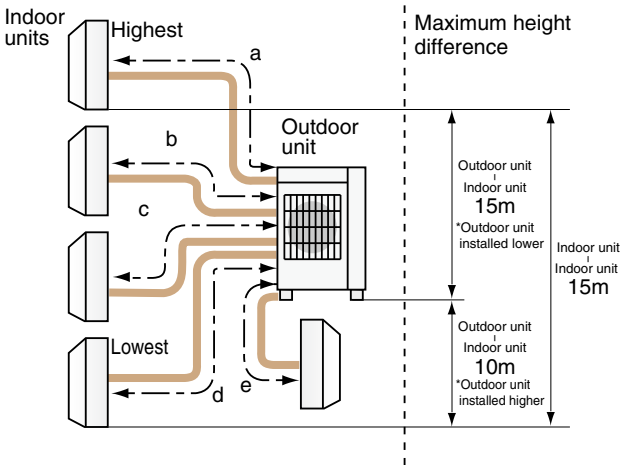
| Maximum Number of Bends | |
|--------------------------------------|----|
| Outdoor unit - Indoor unit (a,b,c,d) | 25 |
| Total number (a+b+c+d) | 70 |



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 |

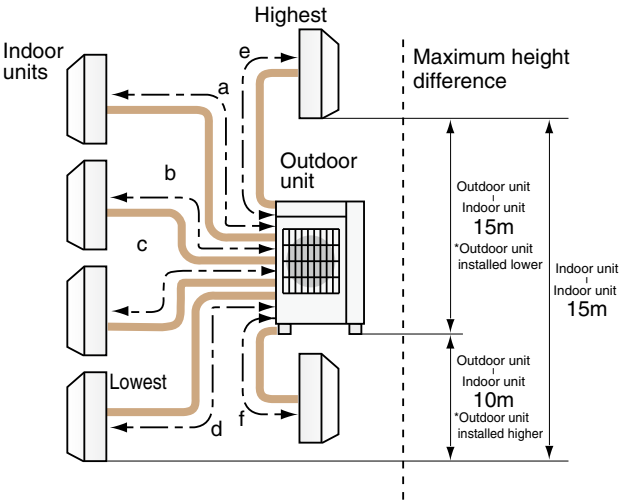
| Maximum Number of Bends | |
|--|----|
| Outdoor unit - Indoor unit (a,b,c,d,e) | 25 |
| Total number (a+b+c+d+e) | 80 |



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 |

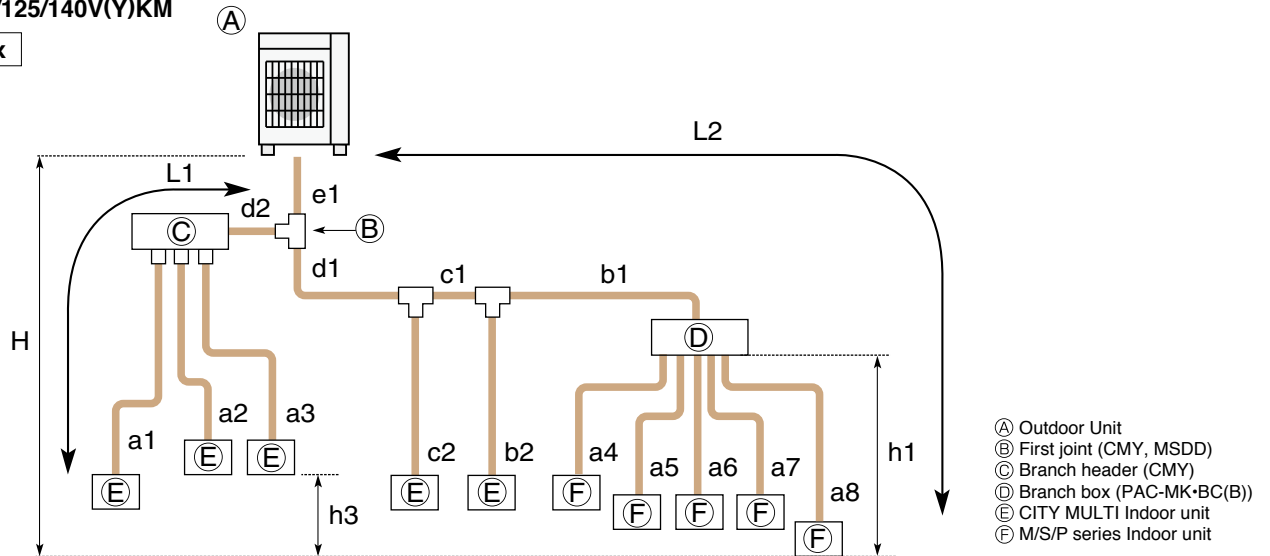
| Maximum Number of Bends | |
|--|----|
| Outdoor unit - Indoor unit (a,b,c,d,e,f) | 25 |
| Total number (a+b+c+d+e+f) | 80 |



PUMY SERIES

PUMY-SP112/125/140V(Y)KM

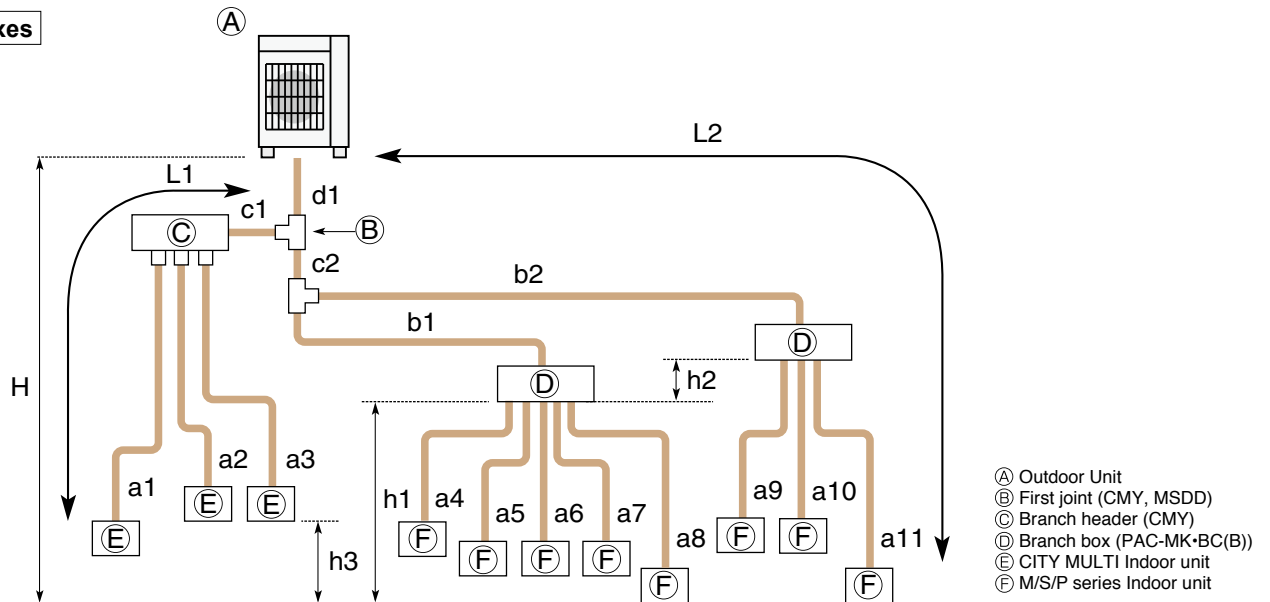
1-Branch box



| | | |
|---|---|---|
| Permissible length (One-way) | Total piping length | $e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \leq 120 \text{ m}$ |
| | Farthest piping length (L1) | $e1 + d2 + a1$ or $e1 + d1 + c1 + b2 \leq 70 \text{ m}$ |
| | Farthest piping length. Via Branch box (L2) | $e1 + d1 + c1 + b1 + a8 \leq 50 \text{ m}$ |
| | Piping length between outdoor unit and branch box | $e1 + d1 + c1 + b1 \leq 55 \text{ m}$ |
| | Farthest piping length from the first joint | $d1 + c1 + b1$ or $d1 + c1 + b2 \leq 50 \text{ m}$ |
| | Farthest piping length after branch box | $a8 \leq 25 \text{ m}$ |
| | Total piping length between branch boxes and indoor units | $a4 + a5 + a6 + a7 + a8 \leq 95 \text{ m}$ |
| Permissible height difference (One-way) | In indoor/outdoor section (H)*1 | $H \leq 50 \text{ m}$ (In case of outdoor unit is set higher than indoor unit) $H \leq 30 \text{ m}$ (In case of outdoor unit is set lower than indoor unit) |
| | In branch box/indoor unit section (h1) | $h1 \leq 15 \text{ m}$ |
| | In each indoor unit (h3) | $h3 \leq 12 \text{ m}$ |
| | Number of bends | $le1 + d2 + a1, le1 + d2 + a2, le1 + d2 + a3, le1 + d1 + c2, le1 + d1 + c1 + b2, le1 + d1 + c1 + b1 + a4, le1 + d1 + c1 + b1 + a5, le1 + d1 + c1 + b1 + a6, le1 + d1 + c1 + b1 + a7, le1 + d1 + c1 + b1 + a8 \leq 15$ |

*1: Branch box should be placed within the level between the outdoor unit and indoor units.

2-Branch boxes

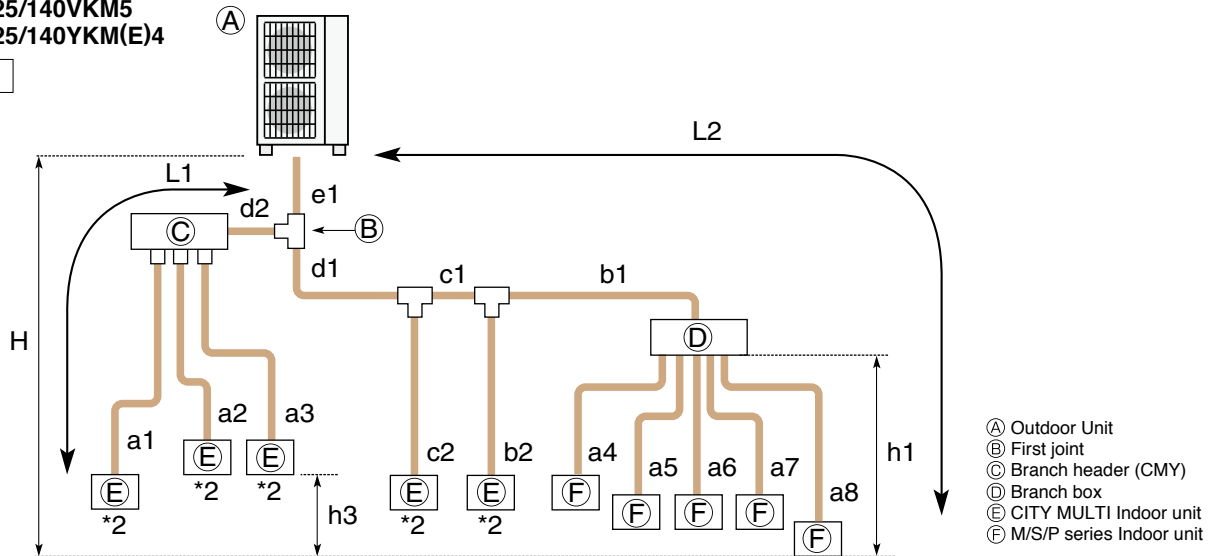


| | | |
|---|---|---|
| Permissible length (One-way) | Total piping length | $d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \leq 120 \text{ m}$ |
| | Farthest piping length (L1) | $d1 + c1 + a1 \leq 70 \text{ m}$ |
| | Farthest piping length. Via Branch box (L2) | $d1 + c2 + b2 + a11 \leq 80 \text{ m}$ |
| | Piping length between outdoor unit and branch boxes | $d1 + c2 + b1 + b2 \leq 55 \text{ m}$ |
| | Farthest piping length from the first joint | $c2 + b2$ or $c1 + a1 \leq 50 \text{ m}$ |
| | Farthest piping length after branch box | $a11 \leq 25 \text{ m}$ |
| | Farthest branch box from outdoor unit | $d1 + c2 + b2 \leq 55 \text{ m}$ |
| Permissible height difference (One-way) | Total piping length between branch boxes and indoor units | $a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \leq 95 \text{ m}$ |
| | In indoor/outdoor section (H)*1 | $H \leq 50 \text{ m}$ (In case of outdoor unit is set higher than indoor unit) $H \leq 30 \text{ m}$ (In case of outdoor unit is set lower than indoor unit) |
| | In branch box/indoor unit section (h1) | $h1 + h2 \leq 15 \text{ m}$ |
| | In each branch unit (h2) | $h2 \leq 15 \text{ m}$ |
| Number of bends | In each indoor unit (h3) | $h3 \leq 12 \text{ m}$ |
| | Number of bends | $ld1 + c1 + a1, ld1 + c1 + a2, ld1 + c1 + a3, ld1 + c2 + b1 + a4, ld1 + c2 + b1 + a5, ld1 + c2 + b1 + a6, ld1 + c2 + b1 + a7, ld1 + c2 + b1 + a8, ld1 + c2 + b2 + a9, ld1 + c2 + b2 + a10, ld1 + c2 + b2 + a11 \leq 15$ |

*1: Branch box should be placed within the level between the outdoor unit and indoor units.

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

1-Branch box

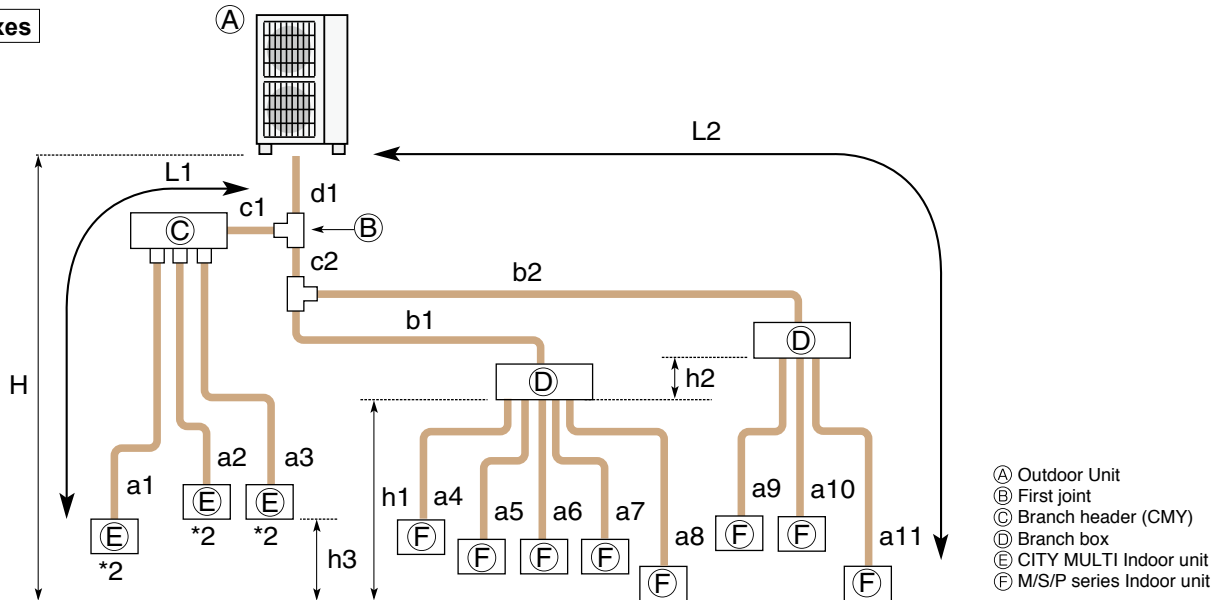


| | | |
|--|---|---|
| Permissible length (One-way) | Total piping length | $e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \leq 300 \text{ m}$ |
| | Farthest piping length (L1) | $e1 + d2 + a1 \text{ or } e1 + d1 + c1 + b2 \leq 85 \text{ m}$ |
| | Farthest piping length. Via Branch box (L2) | $e1 + d1 + c1 + b1 + a8 \leq 80 \text{ m}$ |
| | Piping length between outdoor unit and branch box | $e1 + d1 + c1 + b1 \leq 55 \text{ m}$ |
| | Farthest piping length from the first joint | $d1 + c1 + b1 \text{ or } d1 + c1 + b2 \leq 30 \text{ m}$ |
| | Farthest piping length after branch box | $a8 \leq 25 \text{ m}$ |
| | Total piping length between branch boxes and indoor units | $a4 + a5 + a6 + a7 + a8 \leq 95 \text{ m}$ |
| Permissible height difference (One-way) | In indoor/outdoor section (H)*1 | $H \leq 50 \text{ m}$ (In case of outdoor unit is set higher than indoor unit) $H \leq 40 \text{ m}$ (In case of outdoor unit is set lower than indoor unit) |
| | In branch box/indoor unit section (h1) | $h1 \leq 15 \text{ m}$ |
| | In each indoor unit (h3) | $h3 \leq 12 \text{ m}$ |
| | Number of bends | $le1 + d2 + a1l, le1 + d2 + a2l, le1 + d2 + a3l, le1 + d1 + c2l, le1 + d1 + c1 + b2l, le1 + d1 + c1 + b1 + a4l, le1 + d1 + c1 + b1 + a5l, le1 + d1 + c1 + b1 + a6l, le1 + d1 + c1 + b1 + a7l, le1 + d1 + c1 + b1 + a8l \leq 15$ |

*1: Branch box should be placed within the level between the outdoor unit and indoor units.

*2: PKFY and PFFY Series cannot be connected.

2-Branch boxes



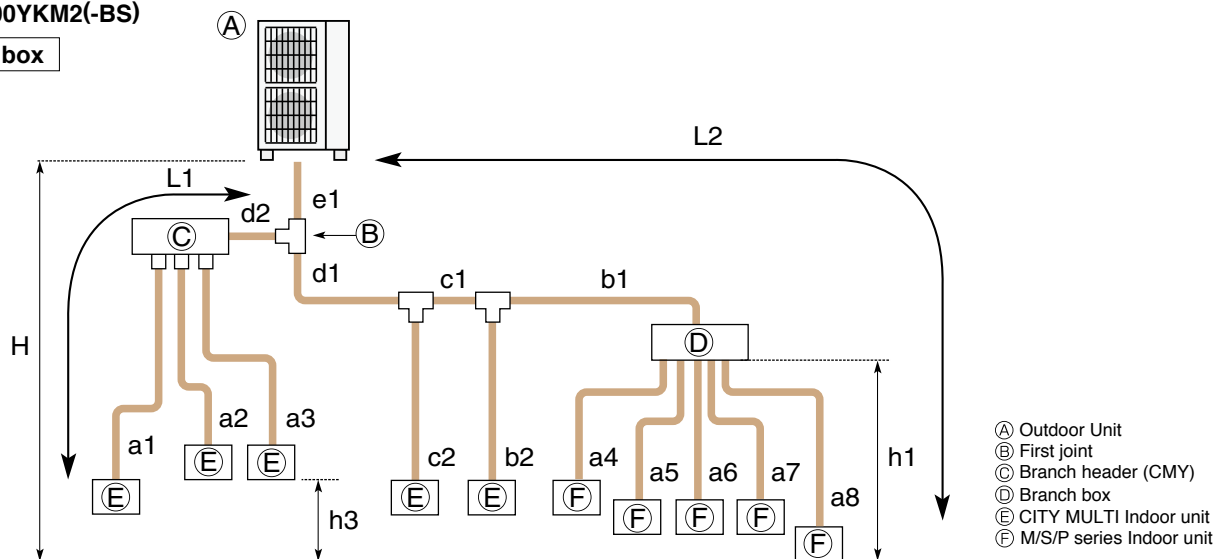
| | | |
|--|---|--|
| Permissible length (One-way) | Total piping length | $d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \leq 240 \text{ m}$ |
| | Farthest piping length (L1) | $d1 + c1 + a1 \leq 85 \text{ m}$ |
| | Farthest piping length. Via Branch box (L2) | $d1 + c2 + b2 + a11 \leq 80 \text{ m}$ |
| | Piping length between outdoor unit and branch boxes | $d1 + c2 + b1 + b2 \leq 55 \text{ m}$ |
| | Farthest piping length from the first joint | $c2 + b2 \text{ or } c1 + a1 \leq 30 \text{ m}$ |
| | Farthest piping length after branch box | $a11 \leq 25 \text{ m}$ |
| | Farthest branch box from outdoor unit | $d1 + c2 + b2 \leq 55 \text{ m}$ |
| Permissible height difference (One-way) | Total piping length between branch boxes and indoor units | $a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \leq 95 \text{ m}$ |
| | In indoor/outdoor section (H)*1 | $H \leq 50 \text{ m}$ (In case of outdoor unit is set higher than indoor unit) $H \leq 40 \text{ m}$ (In case of outdoor unit is set lower than indoor unit) |
| | In branch box/indoor unit section (h1) | $h1 + h2 \leq 15 \text{ m}$ |
| | In each branch unit (h2) | $h2 \leq 15 \text{ m}$ |
| | In each indoor unit (h3) | $h3 \leq 12 \text{ m}$ |
| Number of bends | | $ld1 + c1 + a1l, ld1 + c1 + a2l, ld1 + c1 + a3l, ld1 + c2 + b1 + a4l, ld1 + c2 + b1 + a5l, ld1 + c2 + b1 + a6l, ld1 + c2 + b1 + a7l, ld1 + c2 + b1 + a8l, ld1 + c2 + b2 + a9l, ld1 + c2 + b2 + a10l, ld1 + c2 + b2 + a11l \leq 15$ |

*1: Branch box should be placed within the level between the outdoor unit and indoor units.

*2: PKFY and PFFY Series cannot be connected.

PUMY-P200YKM2(-BS)

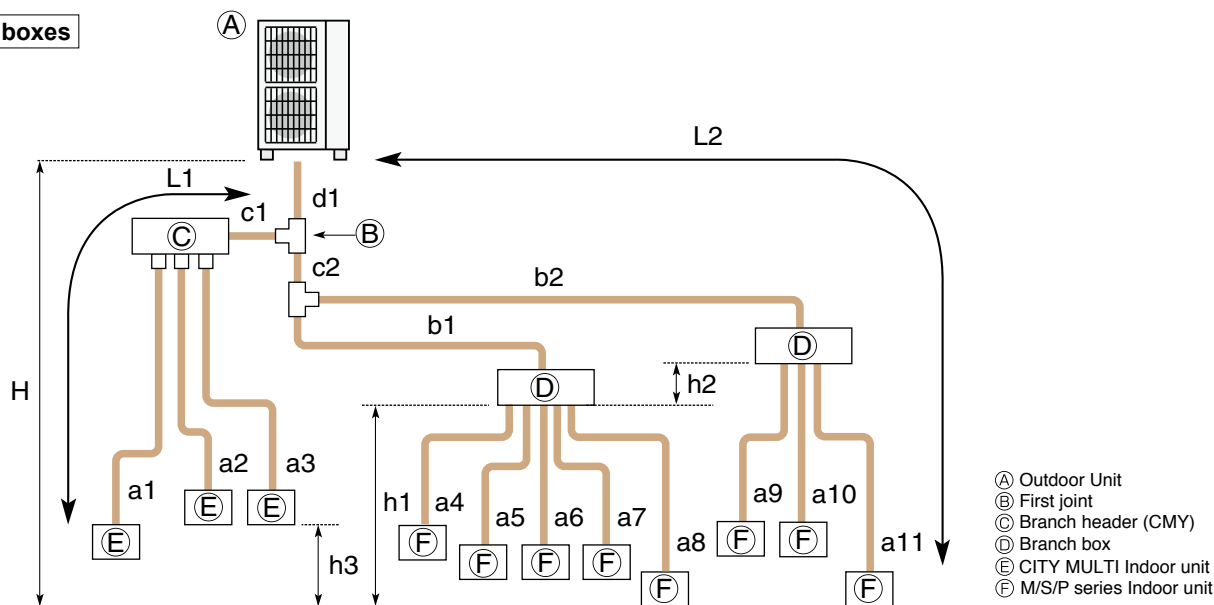
1-Branch box



| | | |
|---|---|---|
| Permissible length (One-way) | Total piping length | $e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \leq 150 \text{ m}$ |
| | Farthest piping length (L1) | $e1 + d2 + a1$ or $e1 + d1 + c1 + b2 \leq 80 \text{ m}$ |
| | Farthest piping length. Via Branch box (L2) | $e1 + d1 + c1 + b1 + a8 \leq 80 \text{ m}$ |
| | Piping length between outdoor unit and branch box | $e1 + d1 + c1 + b1 \leq 55 \text{ m}$ |
| | Farthest piping length from the first joint | $d1 + c1 + b1$ or $d1 + c1 + b2 \leq 30 \text{ m}$ |
| | Farthest piping length after branch box | $a8 \leq 25 \text{ m}$ |
| | Total piping length between branch boxes and indoor units | $a4 + a5 + a6 + a7 + a8 \leq 95 \text{ m}$ |
| Permissible height difference (One-way) | In indoor/outdoor section (H)*1 | $H \leq 50 \text{ m}$ (In case of outdoor unit is set higher than indoor unit) $H \leq 40 \text{ m}$ (In case of outdoor unit is set lower than indoor unit) |
| | In branch box/indoor unit section (h1) | $h1 \leq 15 \text{ m}$ |
| | In each indoor unit (h3) | $h3 \leq 12 \text{ m}$ |
| Number of bends | | $le1 + d2 + a1l, le1 + d2 + a2l, le1 + d2 + a3l, le1 + d1 + c2l, le1 + d1 + c1 + b2l, le1 + d1 + c1 + b1 + a4l, le1 + d1 + c1 + b1 + a5l, le1 + d1 + c1 + b1 + a6l, le1 + d1 + c1 + b1 + a7l, le1 + d1 + c1 + b1 + a8l \leq 15$ |

*1: Branch box should be placed within the level between the outdoor unit and indoor units.

2-Branch boxes

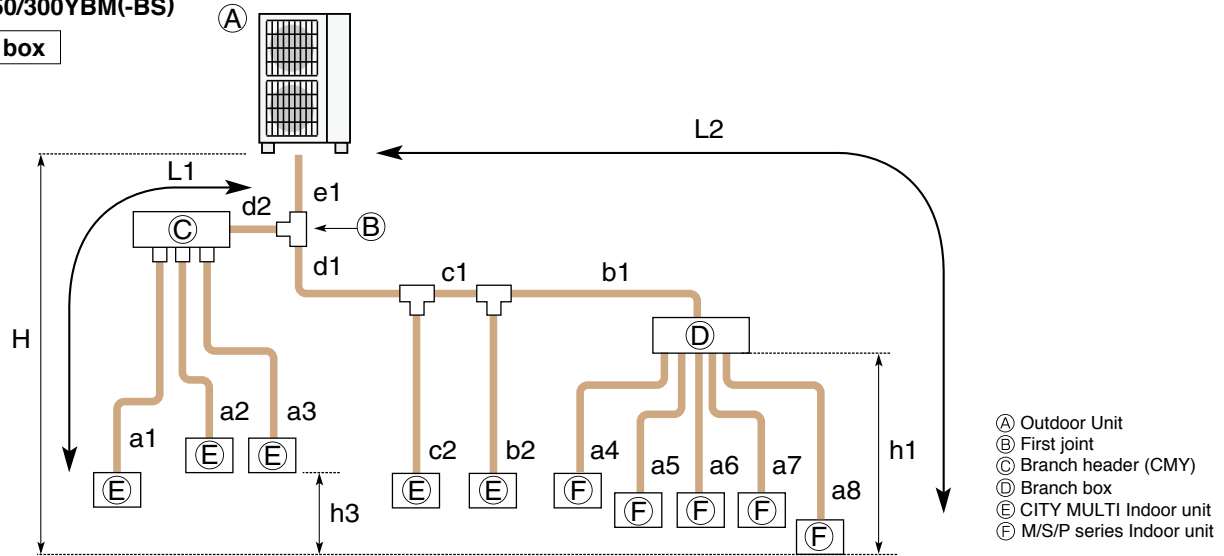


| | | |
|---|---|--|
| Permissible length (One-way) | Total piping length | $d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \leq 150 \text{ m}$ |
| | Farthest piping length (L1) | $d1 + c1 + a1 \leq 80 \text{ m}$ |
| | Farthest piping length. Via Branch box (L2) | $d1 + c2 + b2 + a11 \leq 80 \text{ m}$ |
| | Piping length between outdoor unit and branch boxes | $d1 + c2 + b1 + b2 \leq 55 \text{ m}$ |
| | Farthest piping length from the first joint | $c2 + b2$ or $c1 + a1 \leq 30 \text{ m}$ |
| | Farthest piping length after branch box | $a11 \leq 25 \text{ m}$ |
| | Farthest branch box from outdoor unit | $d1 + c2 + b2 \leq 55 \text{ m}$ |
| | Total piping length between branch boxes and indoor units | $a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \leq 95 \text{ m}$ |
| Permissible height difference (One-way) | In indoor/outdoor section (H)*1 | $H \leq 50 \text{ m}$ (In case of outdoor unit is set higher than indoor unit) $H \leq 40 \text{ m}$ (In case of outdoor unit is set lower than indoor unit) |
| | In branch box/indoor unit section (h1) | $h1 + h2 \leq 15 \text{ m}$ |
| | In each branch unit (h2) | $h2 \leq 15 \text{ m}$ |
| | In each indoor unit (h3) | $h3 \leq 12 \text{ m}$ |
| Number of bends | | $ld1 + c1 + a1l, ld1 + c1 + a2l, ld1 + c1 + a3l, ld1 + c2 + b1 + a4l, ld1 + c2 + b1 + a5l, ld1 + c2 + b1 + a6l, ld1 + c2 + b1 + a7l, ld1 + c2 + b1 + a8l, ld1 + c2 + b2 + a9l, ld1 + c2 + b2 + a10l, ld1 + c2 + b2 + a11l \leq 15$ |

*1: Branch box should be placed within the level between the outdoor unit and indoor units.

PUMY-P250/300YBM(-BS)

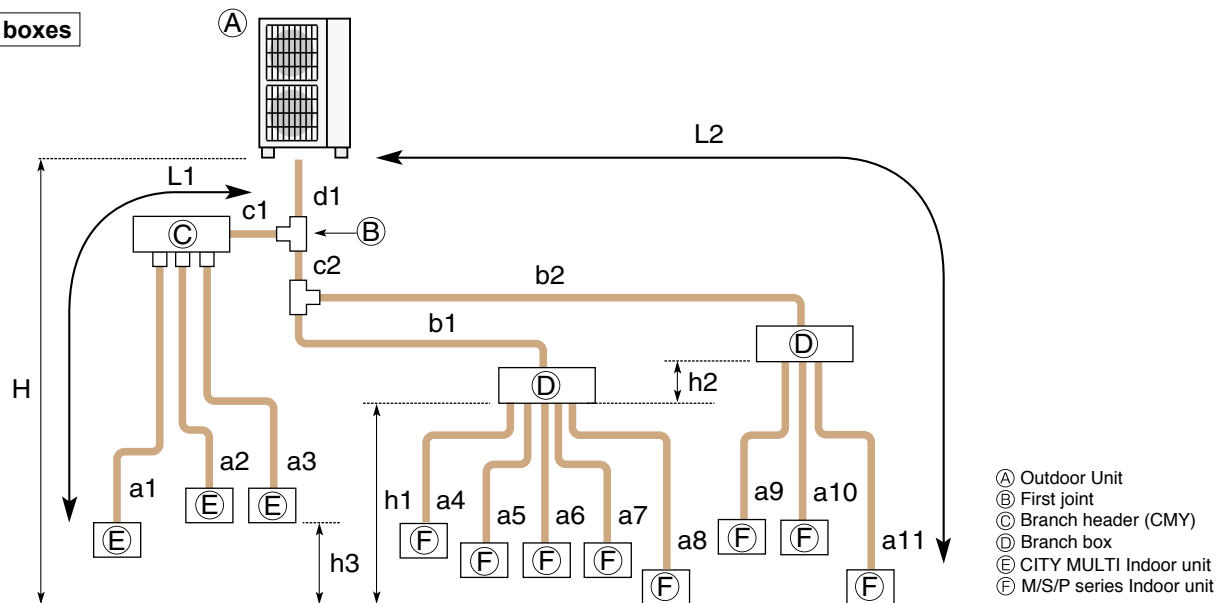
1-Branch box



| | | |
|---|---|---|
| Permissible length (One-way) | Total piping length | $e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \leq 310 \text{ m}$ |
| | Farthest piping length (L1) | $e1 + d2 + a1 \text{ or } e1 + d1 + c1 + b2 \leq 85 \text{ m}$ |
| | Farthest piping length. Via Branch box (L2) | $e1 + d1 + c1 + b1 + a8 \leq 80 \text{ m}$ |
| | Piping length between outdoor unit and branch box | $e1 + d1 + c1 + b1 \leq 80 \text{ m}$ |
| | Farthest piping length from the first joint | $d1 + c1 + b1 \text{ or } d1 + c1 + b2 \leq 30 \text{ m}$ |
| | Farthest piping length after branch box | $a8 \leq 25 \text{ m}$ |
| | Total piping length between branch boxes and indoor units | $a4 + a5 + a6 + a7 + a8 \leq 145 \text{ m}$ |
| Permissible height difference (One-way) | In indoor/outdoor section (H)*1 | $H \leq 50 \text{ m}$ (In case of outdoor unit is set higher than indoor unit) $H \leq 40 \text{ m}$ (In case of outdoor unit is set lower than indoor unit) |
| | In branch box/indoor unit section (h1) | $h1 \leq 15 \text{ m}$ |
| | In each indoor unit (h3) | $h3 \leq 12 \text{ m}$ |
| Number of bends | $le1 + d2 + a1l, le1 + d2 + a2l, le1 + d2 + a3l, le1 + d1 + c2l, le1 + d1 + c1 + b2l, le1 + d1 + c1 + b1 + a4l, le1 + d1 + c1 + b1 + a5l, le1 + d1 + c1 + b1 + a6l, le1 + d1 + c1 + b1 + a7l, le1 + d1 + c1 + b1 + a8l \leq 23$ | |

*1: Branch box should be placed within the level between the outdoor unit and indoor units.

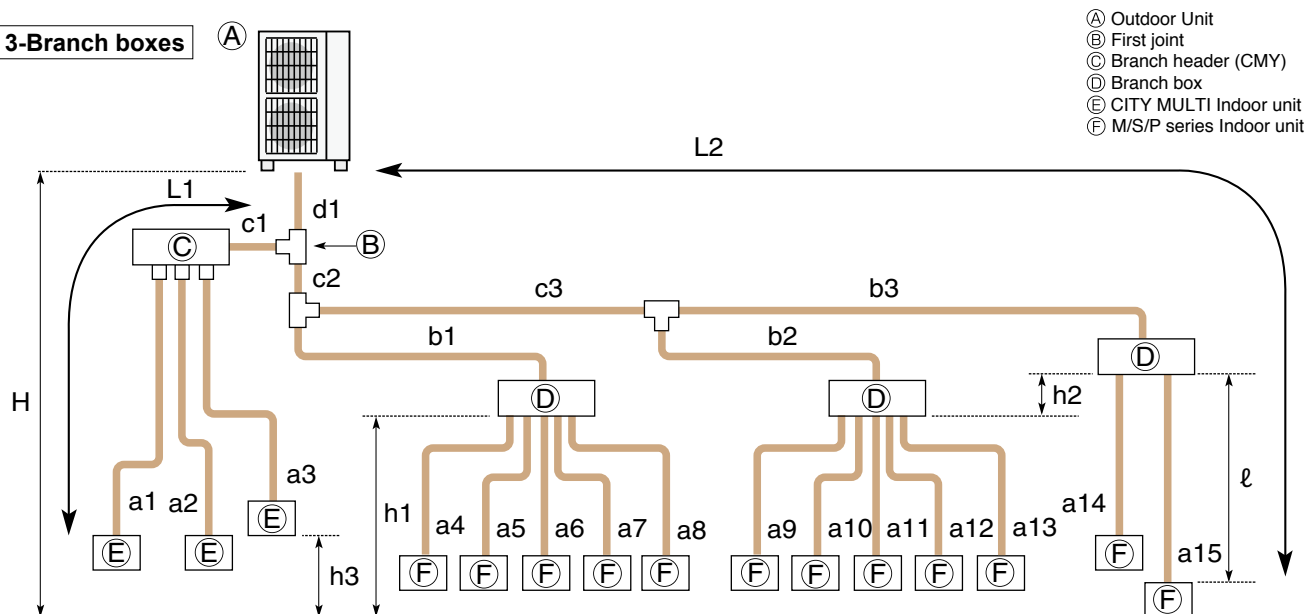
2-Branch boxes



| | | |
|---|--|---|
| Permissible length (One-way) | Total piping length | $d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \leq 310 \text{ m}$ |
| | Farthest piping length (L1) | $d1 + c1 + a1 \leq 85 \text{ m}$ |
| | Farthest piping length. Via Branch box (L2) | $d1 + c2 + b2 + a11 \leq 80 \text{ m}$ |
| | Piping length between outdoor unit and branch boxes | $d1 + c2 + b1 + b2 \leq 95 \text{ m}$ |
| | Farthest piping length from the first joint | $c2 + b2 \text{ or } c1 + a1 \leq 30 \text{ m}$ |
| | Farthest piping length after branch box | $a11 \leq 25 \text{ m}$ |
| | Total piping length between branch boxes and indoor units | $a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \leq 145 \text{ m}$ |
| Permissible height difference (One-way) | In indoor/outdoor section (H)*1 | $H \leq 50 \text{ m}$ (In case of outdoor unit is set higher than indoor unit) $H \leq 40 \text{ m}$ (In case of outdoor unit is set lower than indoor unit) |
| | In branch box/indoor unit section | $h1 + h2 \leq 15 \text{ m}$ |
| | In each branch unit (h2) | $h2 \leq 15 \text{ m}$ |
| | In each indoor unit (h3) | $h3 \leq 12 \text{ m}$ |
| Number of bends | $ld1 + c1 + a1l, ld1 + c1 + a2l, ld1 + c1 + a3l, ld1 + c2 + b1 + a4l, ld1 + c2 + b1 + a5l, ld1 + c2 + b1 + a6l, ld1 + c2 + b1 + a7l, ld1 + c2 + b1 + a8l, ld1 + c2 + b2 + a9l, ld1 + c2 + b2 + a10l, ld1 + c2 + b2 + a11l \leq 23$ | |

*1: Branch box should be placed within the level between the outdoor unit and indoor units.

3-Branch boxes



| | | |
|---|---|---|
| Permissible length (One-way) | Total piping length | $d1 + c1 + c2 + c3 + b1 + b2 + b3 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 + a12 + a13 + a14 + a15 \leq 310 \text{ m}$ |
| | Farthest piping length (L1) | $d1 + c1 + a1 \leq 85 \text{ m}$ |
| | Farthest piping length. Via Branch box (L2) | $d1 + c2 + c3 + b3 + a15 \leq 80 \text{ m}$ |
| | Piping length between outdoor unit and branch boxes | $d1 + c2 + c3 + b1 + b2 + b3 \leq 95 \text{ m}$ |
| | Farthest piping length from the first joint | $c2 + c3 + b3 \text{ or } c1 + a1 \leq 30 \text{ m}$ |
| | Farthest piping length after branch box (ℓ) | $a15 \leq 25 \text{ m}$ |
| | Total piping length between branch boxes and indoor units | $a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 + a12 + a13 + a14 + a15 \leq 145 \text{ m}$ |
| Permissible height difference (One-way) | In indoor/outdoor section (H)*1 | $H \leq 50 \text{ m}$ (In case of outdoor unit is set higher than indoor unit) $H \leq 40 \text{ m}$ (In case of outdoor unit is set lower than indoor unit) |
| | In branch box/indoor unit section | $h1 + h2 \leq 15 \text{ m}$ |
| | In each branch unit (h2) | $h2 \leq 15 \text{ m}$ |
| | In each indoor unit (h3) | $h3 \leq 12 \text{ m}$ |
| Number of bends | | $ 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 + c3 + b2 + a9 , d1 + c2 + c3 + b2 + a10 , d1 + c2 + c3 + b2 + a11 , d1 + c2 + c3 + b2 + a12 , d1 + c2 + c3 + b2 + a13 , d1 + c2 + c3 + b3 + a14 , d1 + c2 + c3 + b3 + a15 \leq 23$ |

*1: 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 |
| | 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 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

| | |
|----|--|
| M | M : M Series S : S Series |
| S | "S"= Wall-mounted , "F"= Compact floor-standing , "E"= Compact ceiling-concealed , "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 |
| H | Generation |
| 25 | Rated cooling capacity (kW base) |
| V | 230V / Single phase / 50Hz |
| E | "A"= R410A with new A control , "B"= R410A with conventional control , "E"= R410A with new A control & ErP correspondance , "G"=R32 with new A control & ErP correspondance , "F"= R32 with new A control |
| HZ | "HZ"= Hyper Heating model , "H"= Anti-freeze heater equipped model , "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 |
| H | "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 |
| H | Generation |
| A | "A"= A control |

3) MXZ Series

| | |
|-------------|--|
| M | M Series |
| X | 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 |
| A | "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

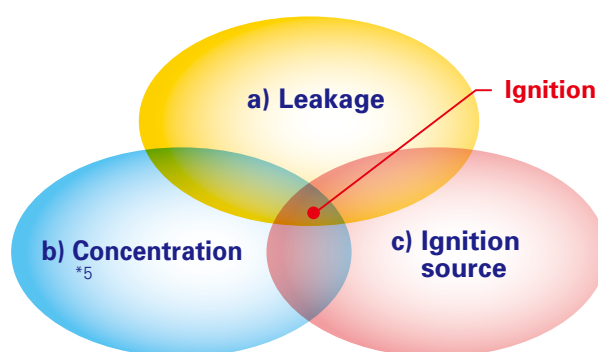
| | Model Name | Refrigerant | Pre-charged quantity | | | Max. added quantity | |
|----------|----------------|-------------|----------------------|-------------|--------------------------------|---------------------|--------------------------------|
| | | | GWPF | Weight [kg] | CO ₂ equivalent [t] | Weight [kg] | CO ₂ equivalent [t] |
| | MUZ-RW25VG | R32 | 675 | 1.20 | 0.81 | 1.40 | 0.95 |
| | MUZ-RW35VG | R32 | 675 | 1.10 | 0.74 | 1.30 | 0.88 |
| | MUZ-RW50VG | R32 | 675 | 1.21 | 0.82 | 1.51 | 1.02 |
| | MUZ-LN25VG | R32 | 675 | 1.00 | 0.68 | 0.26 | 0.18 |
| | MUZ-LN25VG2 | R32 | 675 | 0.8 | 0.54 | 0.20 | 0.135 |
| | MUZ-LN35VG | R32 | 675 | 1.00 | 0.68 | 0.26 | 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 | 1.25 | 0.85 | 0.10 | 0.07 |
| | MUZ-LN60VG | R32 | 675 | 1.45 | 0.98 | 0.46 | 0.32 |
| | MUZ-LN25VGHZ | R32 | 675 | 1.00 | 0.68 | 0.26 | 0.18 |
| | 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 | R32 | 675 | 0.85 | 0.58 | 0.25 | 0.17 |
| | MUZ-FT35VGHZ | R32 | 675 | 0.95 | 0.65 | 0.45 | 0.31 |
| | 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 | R32 | 675 | 0.55 | 0.37 | 0.26 | 0.18 |
| | MUZ-AP25VG | R32 | 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 | R32 | 675 | 1.00 | 0.68 | 0.26 | 0.18 |
| | MUZ-AP60VG | R32 | 675 | 1.05 | 0.71 | 0.30 | 0.20 |
| | 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 | 0.55 | 0.37 | 0.26 | 0.18 |
| | MUZ-AP42VGH | R32 | 675 | 0.70 | 0.47 | 0.26 | 0.18 |
| | MUZ-AP50VGH | R32 | 675 | 1.00 | 0.68 | 0.26 | 0.18 |
| | MUZ-EF25VGH(H) | R32 | 675 | 0.62 | 0.42 | 0.26 | 0.18 |
| | MUZ-EF35VGH(H) | R32 | 675 | 0.74 | 0.50 | 0.26 | 0.18 |
| | MUZ-EF42VG | R32 | 675 | 0.74 | 0.50 | 0.26 | 0.18 |
| | MUZ-EF50VG | R32 | 675 | 1.05 | 0.71 | 0.46 | 0.32 |
| | MUZ-BT20VG | R32 | 675 | 0.45 | 0.30 | 0.26 | 0.18 |
| | MUZ-BT25VG | R32 | 675 | 0.50 | 0.34 | 0.26 | 0.18 |
| | MUZ-BT35VG | R32 | 675 | 0.50 | 0.34 | 0.26 | 0.18 |
| | MUZ-BT50VG | R32 | 675 | 0.70 | 0.47 | 0.26 | 0.18 |
| | MUZ-HR25VF | R32 | 675 | 0.40 | 0.27 | 0.26 | 0.18 |
| | MUZ-HR35VF | R32 | 675 | 0.45 | 0.30 | 0.26 | 0.18 |
| | MUZ-HR42VF | R32 | 675 | 0.70 | 0.47 | 0.26 | 0.18 |
| | MUZ-HR50VF | R32 | 675 | 0.80 | 0.54 | 0.26 | 0.18 |
| | MUZ-HR60VF | R32 | 675 | 1.05 | 0.71 | 0.46 | 0.32 |
| | MUZ-HR71VF | R32 | 675 | 1.05 | 0.71 | 0.46 | 0.32 |
| | MUZ-DW25VG | R32 | 675 | 0.50 | 0.34 | 0.25 | 0.17 |
| | MUZ-DW35VG | R32 | 675 | 0.55 | 0.38 | 0.25 | 0.17 |
| | MUZ-DW50VG | R32 | 675 | 0.97 | 0.66 | 0.25 | 0.17 |
| M-Series | MUY-TP35VF | R410A | 2088 | 0.85 | 0.57 | 0.13 | 0.09 |
| | MUY-TP50VF | R410A | 2088 | 0.85 | 0.57 | 0.13 | 0.09 |
| | MUZ-FH25VE | R410A | 2088 | 1.15 | 2.41 | 0.39 | 0.82 |
| | 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 | R410A | 2088 | 1.15 | 2.41 | 0.39 | 0.82 |
| | MUZ-FH35VEHZ | R410A | 2088 | 1.15 | 2.41 | 0.39 | 0.82 |
| | MUZ-FH50VEHZ | R410A | 2088 | 1.55 | 3.24 | 0.46 | 0.97 |
| | MUZ-SF25VE(H) | R410A | 2088 | 0.70 | 1.47 | 0.39 | 0.82 |
| | MUZ-SF35VE(H) | R410A | 2088 | 0.80 | 1.68 | 0.39 | 0.82 |
| | MUZ-SF42VE(H) | R410A | 2088 | 1.15 | 2.41 | 0.39 | 0.82 |
| | MUZ-SF50VE(H) | R410A | 2088 | 1.55 | 3.24 | 0.46 | 0.97 |
| | MUZ-GF60VE | R410A | 2088 | 1.55 | 3.24 | 0.40 | 0.84 |
| | MUZ-GF71VE | R410A | 2088 | 1.90 | 3.97 | 1.10 | 2.30 |
| | MUZ-WN25VA | R410A | 2088 | 0.70 | 1.47 | 0.26 | 0.55 |
| | MUZ-WN35VA | R410A | 2088 | 0.70 | 1.47 | 0.26 | 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 | R410A | 2088 | 0.70 | 1.47 | 0.26 | 0.55 |
| | MUZ-HJ35VA | R410A | 2088 | 0.72 | 1.51 | 0.26 | 0.55 |
| | MUZ-HJ50VA | 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-KW25VGHZ | R32 | 675 | 1.0 | 0.68 | 1.26 | 0.86 |
| | MUFZ-KW35VGHZ | R32 | 675 | 1.0 | 0.68 | 1.26 | 0.86 |
| | MUFZ-KW50VGHZ | R32 | 675 | 1.3 | 0.88 | 1.76 | 1.19 |
| | MUFZ-KW60VGHZ | R32 | 675 | 1.3 | 0.88 | 1.76 | 1.19 |
| | 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 | R410A | 2088 | 1.3 | 2.72 | 0.2 | 0.42 |
| | MXZ-3E54VA | R410A | 2088 | 2.7 | 5.64 | 0.2 | 0.42 |
| | MXZ-3E68VA | R410A | 2088 | 2.7 | 5.64 | 0.4 | 0.84 |
| | 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 | R410A | 2088 | 2.99 | 6.25 | 1.6 | 3.35 |
| | MXZ-6D122VA | R410A | 2088 | 4.0 | 8.36 | 1.0 | 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 | R32 | 675 | 1.0 | 0.675 | 1.0 | 0.675 |
| | MXZ-3F54VF3 | R32 | 675 | 2.4 | 1.62 | 0 | 0 |
| | MXZ-3F68VF3 | R32 | 675 | 2.4 | 1.62 | 0 | 0 |
| | MXZ-4F72VF3 | R32 | 675 | 2.4 | 1.62 | 0 | 0 |
| | MXZ-4F80VF3 | R32 | 675 | 2.4 | 1.62 | 0 | 0 |
| | MXZ-4F83VF | R32 | 675 | 2.4 | 1.62 | 0 | 0 |
| | MXZ-5F102VF | R32 | 675 | 2.4 | 1.62 | 0 | 0 |
| | MXZ-6F122VF | R32 | 675 | 2.4 | 1.62 | 0 | 0 |
| | MXZ-2F53VFHZ | R32 | 675 | 2.4 | 1.62 | 0 | 0 |
| | MXZ-4F83VFHZ | R32 | 675 | 2.4 | 1.62 | 0 | 0 |
| | MXZ-2E53VAHZ | R410A | 2088 | 2.0 | 4.18 | 0.2 | 0.42 |
| | MXZ-4E83VAHZ | R410A | 2088 | 3.9 | 8.15 | 0.9 | 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 | R32 | 675 | 0.9 | 0.61 | 0.9 | 0.61 |
| | MXZ-2HA50VF | R32 | 675 | 0.9 | 0.61 | 0.9 | 0.61 |
| | MXZ-3HA50VF | R32 | 675 | 1.4 | 0.95 | 1.6 | 1.08 |

| | Model Name | Refrigerant | Pre-charged quantity | | | Max. added quantity | |
|-----------------------|--------------------|-------------|----------------------|-------------|--------------------------------|---------------------|--------------------------------|
| | | | GWPF | Weight [kg] | CO ₂ equivalent [t] | Weight [kg] | CO ₂ equivalent [t] |
| S-Series | SUZ-M25VA | R32 | 675 | 0.65 | 0.44 | 0.26 | 0.18 |
| | SUZ-M35VA | R32 | 675 | 0.90 | 0.61 | 0.26 | 0.18 |
| | SUZ-M50VA | R32 | 675 | 1.20 | 0.81 | 0.46 | 0.31 |
| | SUZ-M60VA | R32 | 675 | 1.25 | 0.84 | 0.46 | 0.31 |
| | SUZ-M71VA | R32 | 675 | 1.45 | 0.98 | 0.92 | 0.62 |
| | 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 | R410A | 2088 | 1.60 | 3.35 | 0.46 | 0.97 |
| | SUZ-KA60VA6 | R410A | 2088 | 1.60 | 3.35 | 0.46 | 0.97 |
| | SUZ-KA71VA6 | R410A | 2088 | 1.80 | 3.76 | 1.265 | 2.65 |
| | PUZ-ZM35VKA2 | R32 | 675 | 2.0 | 1.35 | 0.3 | 0.20 |
| | PUZ-ZM50VKA2 | R32 | 675 | 2.0 | 1.35 | 0.3 | 0.20 |
| P-Series | PUZ-ZM60VHA2 | R32 | 675 | 2.8 | 1.89 | 0.8 | 0.54 |
| | PUZ-ZM71VHA2 | R32 | 675 | 2.8 | 1.89 | 0.8 | 0.54 |
| | PUZ-ZM100VKA2 | R32 | 675 | 3.6 | 2.43 | 2.4 | 1.62 |
| | PUZ-ZM100YKA2 | R32 | 675 | 3.6 | 2.43 | 2.4 | 1.62 |
| | PUZ-ZM125VKA2 | R32 | 675 | 3.6 | 2.43 | 2.4 | 1.62 |
| | PUZ-ZM125YKA2 | R32 | 675 | 3.6 | 2.43 | 2.4 | 1.62 |
| | PUZ-ZM140VKA2 | R32 | 675 | 3.6 | 2.43 | 2.4 | 1.62 |
| | PUZ-ZM140YKA2 | R32 | 675 | 3.6 | 2.43 | 2.4 | 1.62 |
| | PUZ-ZM200YKA2 | R32 | 675 | 6.3 | 4.25 | 9.2 | 6.21 |
| | PUZ-ZM250YKA2 | R32 | 675 | 6.8 | 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 | R410A | 2088 | 3.5 | 7.31 | 1.2 | 2.51 |
| | PUHZ-ZRP100VKA3 | R410A | 2088 | 5.0 | 10.44 | 2.4 | 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 | R410A | 2088 | 5.0 | 10.44 | 2.4 | 5.02 |
| | PUHZ-ZRP140VKA3 | R410A | 2088 | 5.0 | 10.44 | 2.4 | 5.02 |
| | PUHZ-ZRP140YKA3 | R410A | 2088 | 5.0 | 10.44 | 2.4 | 5.02 |
| | 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-M100VKA2 | R32 | 675 | 3.1 | 2.1 | 1.0 | 0.7 |
| | PUZ-M100YKA2 | R32 | 675 | 3.1 | 2.1 | 1.0 | 0.7 |
| PUMY | PUZ-M125VKA2 | R32 | 675 | 3.6 | 2.4 | 1.4 | 0.95 |
| | PUZ-M125YKA2 | R32 | 675 | 3.6 | 2.4 | 1.4 | 0.95 |
| | PUZ-M140VKA2 | R32 | 675 | 3.6 | 2.4 | 1.4 | 0.95 |
| | PUZ-M140YKA2 | R32 | 675 | 3.6 | 2.4 | 1.4 | 0.95 |
| | PUZ-M200YKA2 | R32 | 675 | 5.6 | 3.78 | 1.6 | 1.08 |
| | PUZ-M250YKA2 | R32 | 675 | 6.8 | 4.59 | 2.4 | 1.62 |
| | PUHZ-P100VKA | R410A | 2088 | 3.3 | 6.89 | 1.2 | 2.51 |
| | PUHZ-P100YKA | R410A | 2088 | 3.3 | 6.89 | 1.2 | 2.51 |
| | PUHZ-P125VKA | R410A | 2088 | 3.8 | 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 | R410A | 2088 | 6.5 | 13.58 | 3.6 | 7.52 |
| | PUHZ-P250YKA3 | R410A | 2088 | 7.7 | 16.08 | 4.8 | 10.03 |
| | 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 | R410A | 2088 | 5.5 | 11.49 | 2.4 | 5.02 |
| | PUHZ-SHW140YHA | R410A | 2088 | 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) | R410A | 2088 | 3.5 | 7.31 | 9.0 | 18.79 |
| | PUMY-SP125YKM(-BS) | R410A | 2088 | 3.5 | 7.31 | 9.0 | 18.79 |
| | PUMY-SP140VKM(-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-SP112VKM5(-BS) | R410A | 2088 | 4.8 | 10.02 | 13.8 | 28.81 | |
| PUMY-P125VKM5(-BS) | R410A | 2088 | 4.8 | 10.02 | 13.8 | 28.81 | |
| PUMY-P140VKM5(-BS) | R410A | 2088 | 4.8 | 10.02 | 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 | 13.8 | 28.81 | |
| PUMY-P200YKM2(-BS) | R410A | 2088 | 7.3 | 15.24 | 13.1 | 27.35 | |
| ATW Packaged | PUMY-P250YBM(-BS) | R410A | 2088 | 9.3 | 19.42 | 32.1 | 67.03 |
| | PUMY-P300YBM(-BS) | R410A | 2088 | 9.3 | 19.42 | 32.1 | 67.03 |
| | PUZ-WM50VHA | R32 | 675 | 2.0 | 1.35 | – | – |
| | PUZ-WM60VAA | R32 | 675 | 2.2 | 1.49 | – | – |
| | PUZ-WM85VYAA | R32 | 675 | 2.2 | 1.49 | – | – |
| | PUZ-WM112VYAA | R32 | 675 | 3.0 | 2.03 | – | – |
| | PUZ-WM1140VYHA | R32 | 675 | 3.3 | 2.2275 | – | – |
| | SUZ-SWM40VA | R32 | 675 | 1.2 | 0.81 | 0.4 | 0.27 |
| | SUZ-SWM60VA | R32 | 675 | 1.2 | 0.81 | 0.4 | 0.27 |
| | SUZ-SWM80VA | R32 | 675 | 1.2 | 0.81 | 0.4 | 0.27 |
| | PUD-SWM60VAA | R32 | 675 | 1.3 | 0.8775 | 0.3 | 0.20 |
| | PUD-SWM80VYAA | R32 | 675 | 1.3 | 0.8775 | 0.3 | 0.20 |
| ATW Split | PUD-SWM100VYAA | R32 | 675 | 1.6 | 1.08 | 0.23 | 0.16 |
| | PUD-SWM120VYAA | R32 | 675 | 1.6 | 1.08 | 0.23 | 0.16 |
| | PUD-SHW60VAA | R32 | 675 | 1.4 | 0.945 | 0.3 | 0.20 |
| | PUD-SHW60VYAA | R32 | 675 | 1.4 | 0.945 | 0.3 | 0.20 |
| | PUD-SHWM100VYAA | R32 | 675 | 1.7 | 1.1475 | 0.13 | 0.09 |
| | PUD-SHWM120VYAA | R32 | 675 | 1.7 | 1.1475 | 0.13 | 0.09 |
| | PUD-SHWM1140VYAA | R32 | 675 | 1.7 | 1.1475 | 0.13 | 0.09 |
| | PUHZ-SW75VYAA | R410A | 2088 | 3.0 | 6.27 | 1.8 | 3.76 |
| | PUHZ-SW100VYAA | R410A | 2088 | 4.2 | 8.77 | 1.6 | 3.76 |
| | PUHZ-SW120VYHA | R410A | 2088 | 4.6 | 9.61 | 2.9 | 6.06 |
| | PUHZ-SW160YKA | R410A | 2088 | 7.1 | 14.83 | 4.0 | 8.36 |
| | PUHZ-SW200YKA | R410A | 2088 | 7.7 | 16.08 | 5.2 | 8.36 |
| Mr. Slim+ | PUHZ-SHW60VYAA | R410A | 2088 | 4.6 | 9.61 | 1.4 | 2.93 |
| | PUHZ-SHW112VYAA | R410A | 2088 | 4.6 | 9.61 | 1.4 | 2.93 |
| | PUHZ-SHW140YHA | R410A | 2088 | 5.5 | 11.49 | 2.4 | 5.02 |
| | PUHZ-SHW230YKA2 | R410A | 2088 | 7.1 | 14.83 | 8.4 | 17.54 |
| | | R410A | 2088 | 7.8 | 7.94 | 1.8 | 3.76 |

R32 REFRIGERANT

R32 REFRIGERANT PROPERTIES

Under the conditions shown below, there is a possibility that R32 could ignite.



| | R32 | R410A | R22 |
|-----------------------------------|--------------------------------|--|--------------------------|
| Chemical formula | CH ₂ F ₂ | CH ₂ F ₂ /CHF ₂ CF ₃ | CHClF ₂ |
| Composition (blend ratio wt. %) | Single composition | R32/R125 (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) |

*1 IPCC 4th assessment report.

*2 LFL : Lower flammable limit

*3 UFL : Upper flammable limit

*4 ISO 817:2014

*5 R32 consistency is higher than LFL*¹ and lower than UFL*².

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.

INSTALLATION RESTRICTIONS

In order to prevent the refrigerant from igniting, use the following instructions during installation.

1) Indoor Units

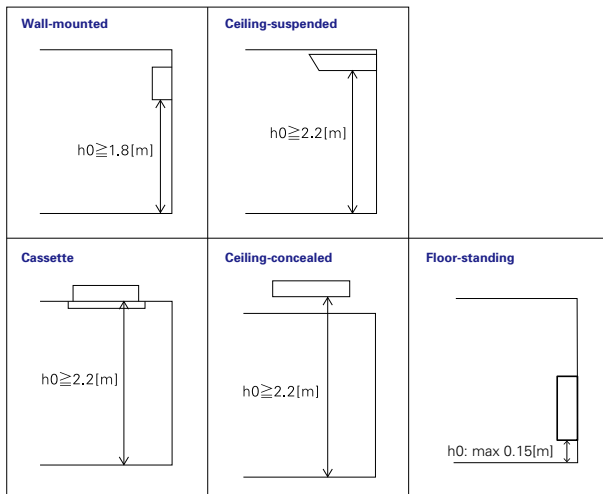
Install in a room with a floor area of A_{min}^* or more, corresponding to refrigerant quantity M.

(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^* .

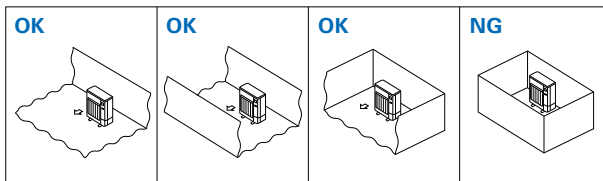
* Refer to table and drawings below.

| <M Series> | | <P Series> | | <MXZ Series> | | <Only for MFZ-KT/KW> | |
|------------|----------------|------------|----------------|--------------|----------------|----------------------|-----------------|
| M[kg] | $A_{min}[m^2]$ | M[kg] | $A_{min}[m^2]$ | M[kg] | $A_{min}[m^2]$ | M[kg] | $A_{min}[m^2]$ |
| 0.7 | 1.7 | 1.0 | 4 | 1.0 | 3 | 1.00 | No requirements |
| 0.8 | 2.0 | 1.5 | 6 | 1.5 | 4.5 | 1.50 | |
| 0.9 | 2.2 | 2.0 | 8 | 2.0 | 6 | 1.80 | |
| 1.0 | 2.5 | 2.5 | 10 | 2.5 | 7.5 | 1.84 | |
| 1.1 | 2.7 | 3.0 | 12 | 3.0 | 9 | 1.90 | 3.75 |
| 1.2 | 3.0 | 3.5 | 14 | 3.5 | 12 | 2.00 | 3.95 |
| 1.3 | 3.2 | 4.0 | 16 | 4.0 | 15.5 | 2.10 | 4.15 |
| 1.4 | 3.4 | 4.5 | 20 | 4.5 | 20 | 2.20 | 4.34 |
| 1.5 | 3.7 | 5.0 | 24 | 5.0 | 24 | 2.30 | 4.54 |
| 1.6 | 3.9 | 5.5 | 29 | 5.5 | 29 | 2.40 | 4.74 |
| 1.7 | 4.2 | 6.0 | 35 | 6.0 | 35 | | |
| 1.8 | 4.4 | 6.5 | 41 | 6.5 | 41 | | |
| 1.9 | 4.6 | 7.0 | 47 | 7.0 | 47 | | |
| 2.0 | 4.9 | 7.5 | 54 | 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.



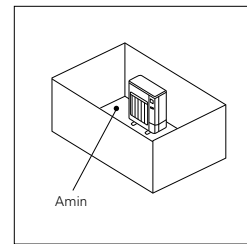
If you unavoidably install a unit in a space where all four sides are blocked or there are depressions, confirm that one of these situations (A, B or C) is satisfied.

A Secure sufficient installation space (minimum installation area A_{min}).

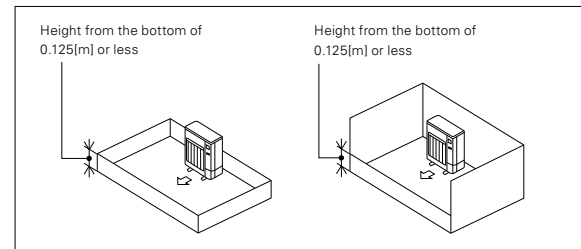
Install in a space with an installation area of A_{min}^* or more, corresponding to refrigerant quantity M. (M = factory-charged refrigerant + locally added refrigerant)

* Refer to table and drawings below.

| M[kg] | $A_{min}[m^2]$ |
|-------|----------------|
| 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 |

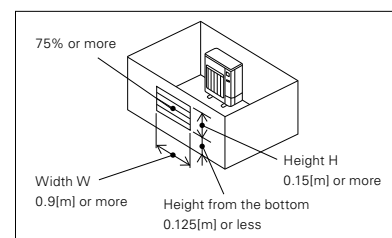


B Install in a space with a depression height of $\leq 0.125[m]$.



C 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)











L OSSNAY SYSTEM



SELECTION

Lossnay lineup consists of two types of ventilation: Energy Recovery Ventilation (ERV) and Heat Recovery Ventilation (HRV). Choose the model that best matches your building layout and indoor environment.

PRODUCT LINEUP

| Lossnay | | | |
|---|--|---|--|
| Energy Recovery Ventilation | Heat Recovery Ventilation | | Energy Recovery Ventilation |
| Centralized Ventilation | | | Decentralized Ventilation |
| Ceiling Concealed | | Vertical Type | Wall mounted Type |
| LGH-RVX Series A commercially oriented system that can be used to deliver high performance and functions virtually anywhere.  | LGH-RVS Series Sensible heat models of the LGH series that can also be installed in sanitary areas.  | VL-CZPVU Series Vertical type for residential use. Centralized ventilation with sensible heat exchange.  | VL-100(E)U5-E Wall mounted models. Particularly suitable for houses and small offices.  VL-50(E)S2-E VL-50SR2-E  |
| LGH-RVXT Series Thin, large airflow models of the LGH series that deliver high performance and functions.  | | | |
| GUF Series (Lossnay with Dx-Coil Unit) Heat recovery units with a heating and cooling system that uses the City Multi outdoor units as a heat source.  | | | |
| Dx-coil unit | | Remote controller | |
| For Lossnay LGH-RVX/RVXT Series | | For LGH-RVX/RVXT/RVS Series | |
| GUG Series Temperature control equipment that works with Lossnay units and Mr.Slim outdoor units.  | PZ-62DR-EA/EB  | | PZ-43SMF-E  |

LOSSNAY LINEUP

| Application | Model | Airflow | 50 CMH | 100 CMH | 150 CMH | 250 CMH | 350 CMH | 500 CMH | 650 CMH | 800 CMH | 1000 CMH | 1500 CMH | 2000 CMH | 2500 CMH |
|---------------------------|-------------------|---|--------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|
| Centralized Ventilation | Ceiling Concealed | LGH-RVX Series | | | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | | LGH-RVXT Series | | | | | | | | | | ● | ● | ● |
| | | LGH-RVS Series | | | | | | ● | | ● | ● | | | |
| | | GUF Series | | | | | | ● | | | ● | | | |
| | | GUG Series (Dx-coil unit for Lossnay LGH-RVX/RVXT Series) | | | | | | ● | ● | ● | ● | ● | ● | ● |
| | Vertical Type | VL-CZPVU Series | | | | ● | ● | ● | | | | | | |
| Decentralized Ventilation | Wall mounted Type | VL-100(E)U5-E | | ● | | | | | | | | | | |
| | | VL-50(E)S2-E VL-50SR2-E | ● | | | | | | | | | | | |

Commercial Use Lossnay

Mitsubishi Electric offers Energy Recovery Ventilation and Heat Recovery Ventilation solutions for optimizing building air quality by Lossnay

Energy Recovery Ventilation

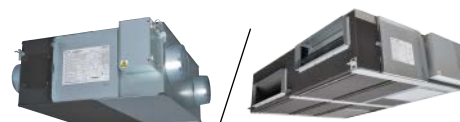
A total heat exchange ventilation system that uses paper characteristics (Lossnay core) to perform temperature (sensible heat) and humidity (latent heat) exchange.

ERV Solution

Environment friendly energy recovery and humidity control enables air conditioning systems to simultaneously provide optimum room comfort and energy savings.

- ✓ Total Heat Exchanger
- ✓ Eliminates excess humidity in the air
- ✓ Wide range of airflow lineup

LGH-RVX/RVXT Series



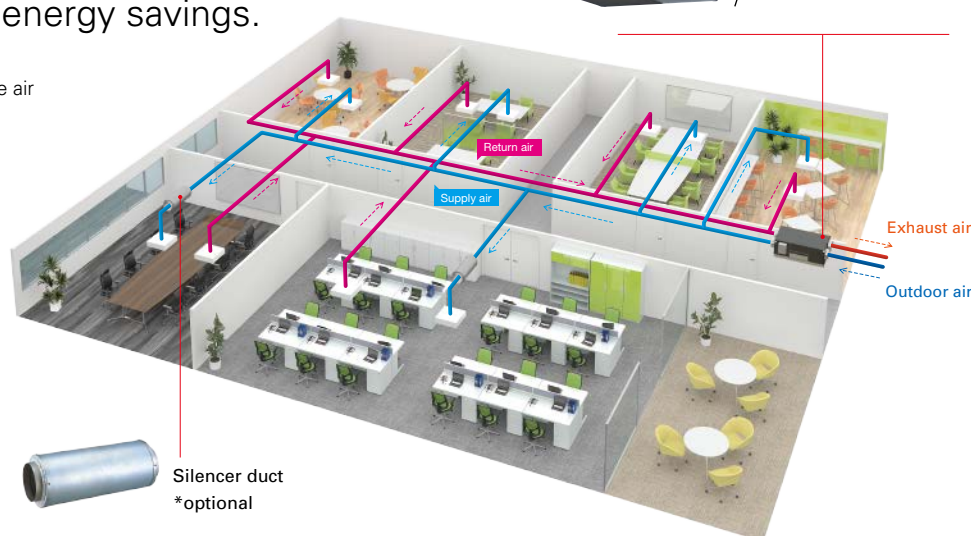
Remote Controller



*optional



Silencer duct
*optional



Heat Recovery Ventilation

A heat exchange ventilation system that uses a heat exchanger (Lossnay core) to perform temperature (sensible heat) exchange.

HRV Solution

Offering the best system solution for ventilation of all areas including the shower room and bathroom.

- ✓ Heat Exchanger
- ✓ Installation in sanitary areas
- ✓ Control with CO₂ sensor

LGH-RVS Series



Remote Controller



*optional



Silencer duct
*optional



CO₂ sensor
*optional



Residential Use Lossnay

Mitsubishi Electric offers you decentralized ventilation and centralized ventilation solutions for optimizing your indoor air quality by Lossnay.

Heat Recovery Ventilation

A heat exchange ventilation system that uses a heat exchanger (Lossnay core) to perform temperature (sensible heat) exchange.

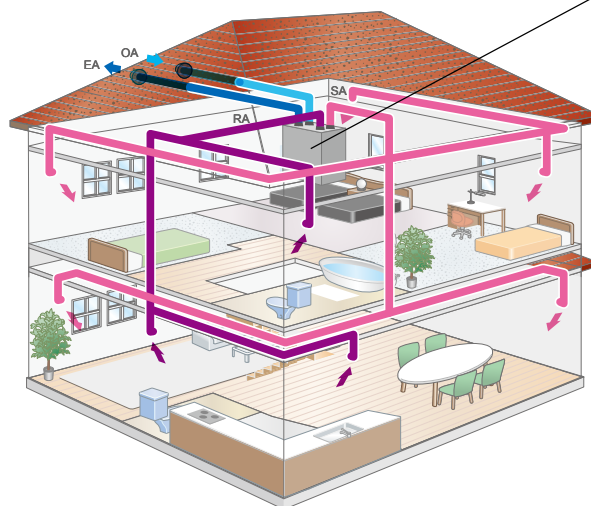
Centralized Ventilation Solution

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. A sensible heat exchanger effectively reduces excess humidity in the winter.

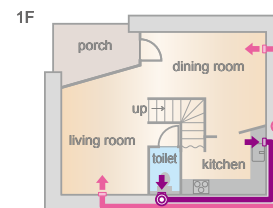
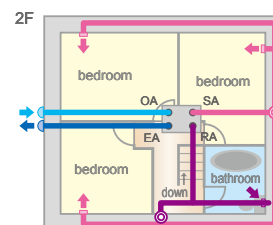
- ✓ Heat Exchanger
- ✓ Whole-house Solution
- ✓ Air Purification
- ✓ Quiet Operation
- ✓ MELCloud Control



* MELCloud uses the MAC-567IF-E interface



VL-250/350/500CZPVU-R-E
VL-250/350/500CZPVU-L-E



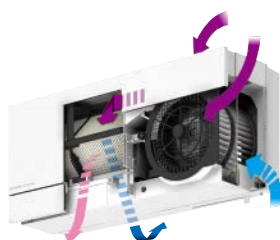
Energy Recovery Ventilation

A total heat exchange ventilation system that uses paper characteristics (Lossnay Core) to perform temperature (Sensible heat) and humidity (latent heat) exchange.

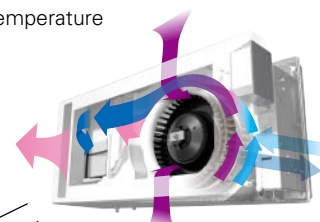
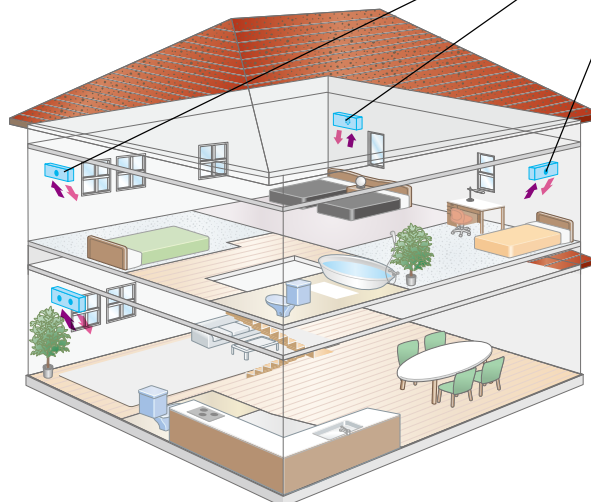
Decentralized Ventilation Solution

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.

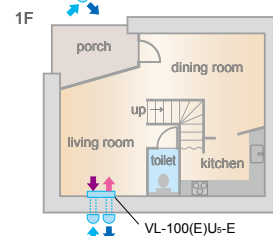
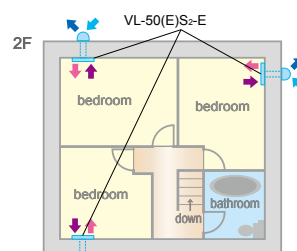
- ✓ Total Heat Exchanger
- ✓ Individual Ventilation
- ✓ Flexible Installation
- ✓ Easy Maintenance
- ✓ Stylish Design



VL-100U5-E (Pull-Switch Model)
VL-100EU5-E (Wall-Switch Model)



VL-50S2-E (Pull-Switch Model)
VL-50ES2-E (Wall-Switch Model)
VL-50SR2-E (Remote Controller Model)



LOSSNAY

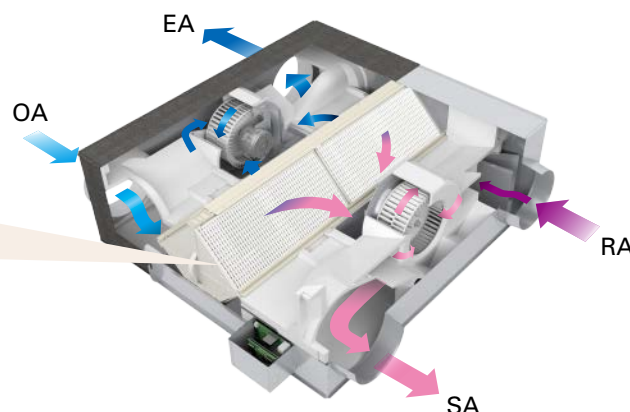
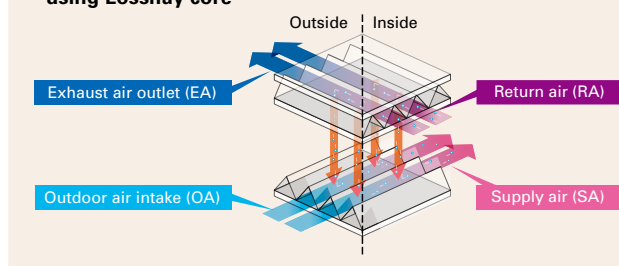
Lossnay ventilation systems are renowned industry-wide for their efficiency. They offer environment-friendly energy recovery and humidity control, and enable air conditioning systems to simultaneously provide optimum room comfort and energy savings.



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.

● The concept of sensible heat and latent heat exchange using Lossnay core

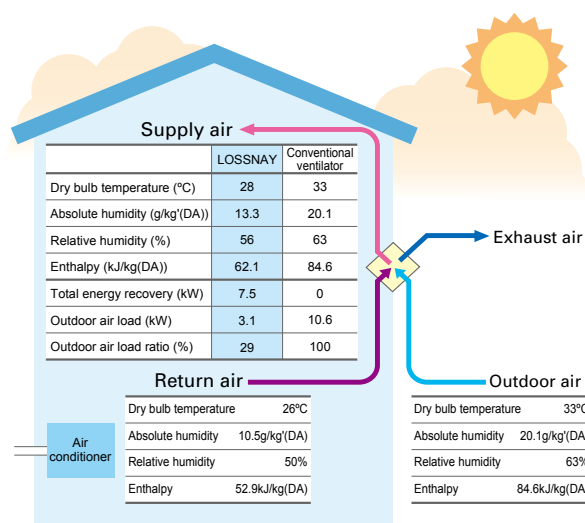


What can be improved by introducing Lossnay?

● Ventilation with maximized comfort

In summer

Air similar to the conditions of cooled (dehumidified) indoor air is supplied.



Heat recovery calculation

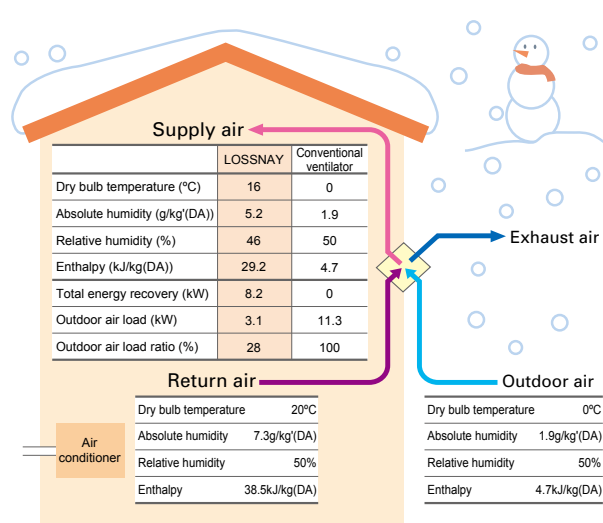
$$\text{Indoor supply-air temperature (°C)} = \text{Outdoor temperature (°C)} - \left\{ \text{Outdoor temperature (°C)} - \text{Indoor temperature (°C)} \right\} \times \text{Temp recovery efficiency (\%)}$$

Calculation example: $28^{\circ}\text{C} = 33^{\circ}\text{C} - (33^{\circ}\text{C} - 26^{\circ}\text{C}) \times 71.5\%$

*The above applies to the case of LGH-100RVX (fan speed 4).

In winter

Air similar to the conditions of heated (humidified) indoor air is supplied.



Heat recovery calculation

$$\text{Indoor supply-air temperature (°C)} = \left\{ \text{Indoor temperature (°C)} - \text{Outdoor temperature (°C)} \right\} \times \text{Temp recovery efficiency (\%)} + \text{Outdoor temperature (°C)}$$

Calculation example: $16^{\circ}\text{C} = (20^{\circ}\text{C} - 0^{\circ}\text{C}) \times 80\% + 0^{\circ}\text{C}$

*The above applies to the case of LGH-100RVX (fan speed 4).

LGH-RVX SERIES

A commercially oriented system that can be used to deliver high performance and functions virtually anywhere.

LGH-15/25/35/50/65/80/100/150RVX-E



Improved airflow range

Wide airflow range

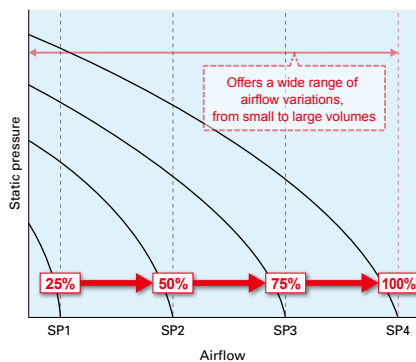
Each fan speed has a range setting of 25, 50, 75 and 100%, allowing much finer airflow control. When used in combination with the CO₂ sensor or timer function, airflow can be controlled according to conditions that realize better performance and reduce power consumption.

Fan speed adjustment function

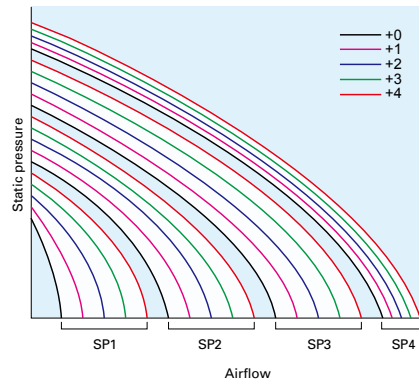
The default fan speed value can be adjusted in slight increments. Use the PZ-62DR-EA/EB remote controller to reset the speed.

- 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.

■ Characteristic curves of the LGH-RVX/RVXT Series



■ P-Q curve image



LGH-RVXT SERIES

The LGH-RVXT Series has a large airflow of 1500-2500 CMH but a thin body of approximately 500mm. Therefore, the unit can be easily installed in the ceiling.

LGH-150/200/250RVXT-E



Thin body type

■ LGH-150RVX-E



Height: 808mm

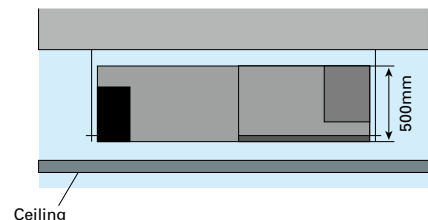
■ LGH-150/200/250RVXT-E



Height: 500mm

38%
Thinner
body

■ LGH-RVXT installation image



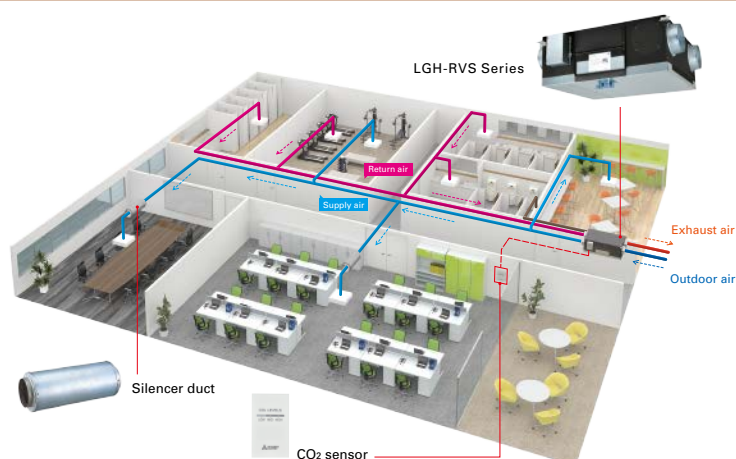
LGH-RVS SERIES

The LGH-RVS Series of sensible heat Lossnay models allows diverse solutions and options in response to customer needs.

LGH-50/80/100RVS-E



A system solution for all-area ventilation



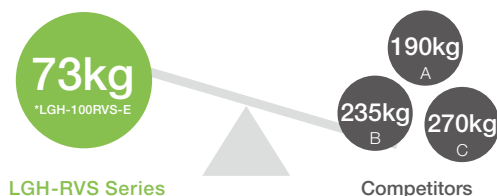
A sensible heat exchanger allows ventilation of all areas including sanitary area.

- Plug and play CO₂ sensor control including power
- Digital commissioning of fan speed increments
- Built-in condensate drainage traps

Easy installation

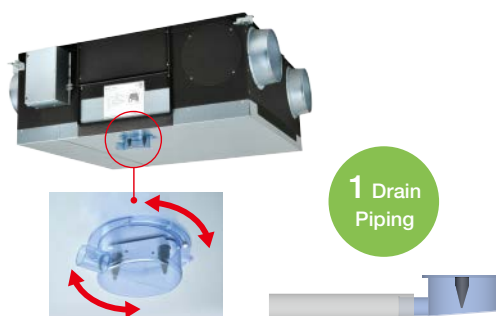
Light Chassis

Being light in weight is one of the most important factors for installation. The light chassis of the LGH-RVS series can provide a huge advantage in terms of installation cost and safety.



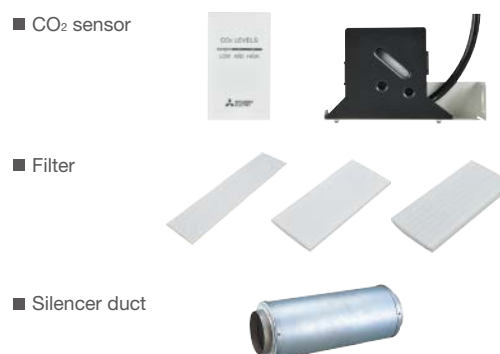
Easy Drain Piping

- Only one drain piping for both SA and EA.
- 360-degree drain pipe connection.
- Trap piping work is NOT required owing to an internal backflow stopper.



Various optional parts

The LGH-RVS series can connect with various optional parts. A CO₂ sensor is one of the best solutions for optimized airflow control. The unit operates while optimizing airflow in accordance with the level of CO₂ condensation in the room. Optimized ventilation can reduce the energy consumption of the air conditioner. A high-efficiency filter can be optionally installed in the unit as an easy solution for even better indoor air quality.



GUF SERIES



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.

GUF-50/100RD4, GUF-50/100RDH4

These units can be used with R410A.

Outdoor units available in the GUF-RD/RDH series (For details see Mitsubishi Electric's CITY MULTI catalog).

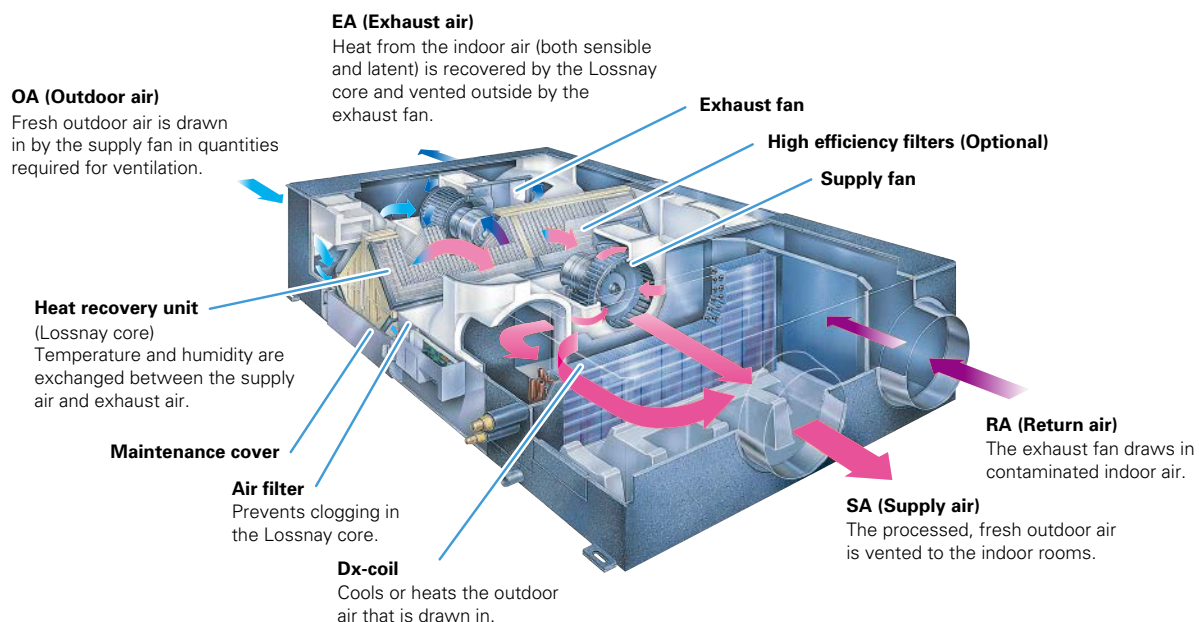
R410A refrigerant units

| Model Size | | P112 | P125 | P140 | P200 | P250 | P300 | P350 | P400 | P450 | P500 | P550 | P600 | P650 | P700 | P750 | P800 |
|-------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Y Series | PUHY-YGM-A | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| R2 Series | PURY-YGM-A | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| PUMY Series | PUMY-SP | ● | ● | ● | | | | | | | | | | | | | |
| | PUMY-P | ● | ● | ● | ● | | | | | | | | | | | | |

Lossnay ventilation and Air conditioning

The OA (outdoor-air) Processing Unit creates an optimum environment while providing substantial energy savings. The OA Processing Unit comprises forced air ventilation, heat recovery, heating and cooling, and air purification. This total air conditioning system keeps indoor air fresh and comfortable all year round, and keeps it free of contaminants preventing ailments such as sick building syndrome. Inside the OA Processing Unit is the Lossnay Core, a heat-exchange unit that transfers heat efficiently, cutting ventilation load by as much as 70%. A remarkable product found nowhere else, this special combination of functionality and performance contained within a single unit ensures users ample comfort, good health, and energy savings.

GUF-RD type



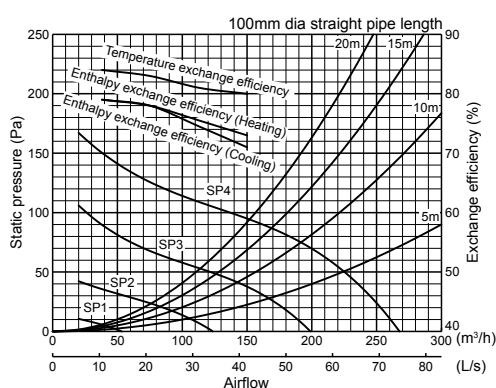
LGH-RVX SERIES

Specifications

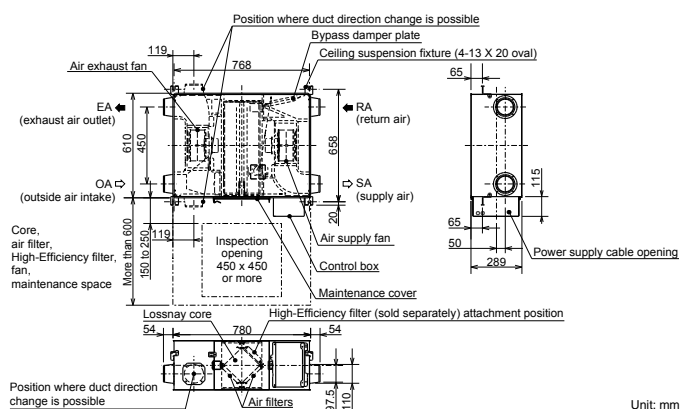
LGH-15RVX-E

| | | | | | | | | |
|---|--------------------------|------|------|------|-------------|------|------|------|
| 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 | (m ³ /h) | 150 | 113 | 75 | 38 | 150 | 113 | 75 |
| | (L/s) | 42 | 31 | 21 | 10 | 42 | 31 | 21 |
| External static pressure (Pa) | | 95 | 54 | 24 | 6 | 95 | 54 | 24 |
| Temperature exchange efficiency (%) | | 80 | 81 | 83 | 84 | — | — | — |
| Enthalpy exchange efficiency (%) | Heating | 73 | 75.5 | 78 | 79 | — | — | — |
| | 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 |
| Weight (kg) | | 20 | | | | | | |
| Specific energy consumption class | | A | | | | | | |

Characteristic Curves



Dimensions

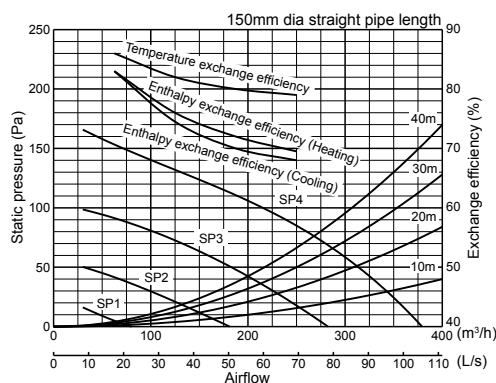


Unit: mm

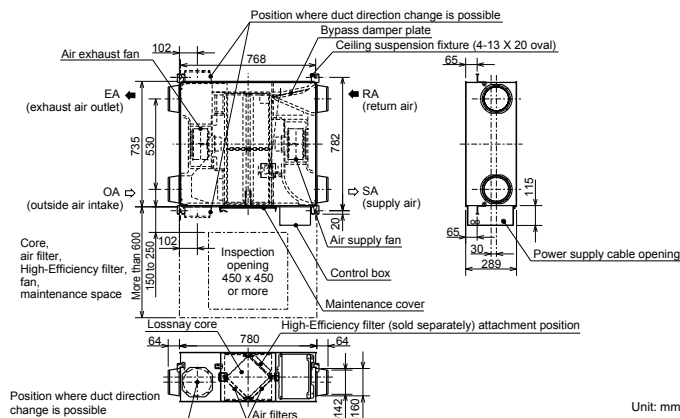
LGH-25RVX-E

| | | | | | | | | |
|---|--------------------------|------|------|------|-------------|------|------|------|
| 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) | 0.48 | 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 ³ /h) | 250 | 188 | 125 | 63 | 250 | 188 | 125 |
| | (L/s) | 69 | 52 | 35 | 17 | 69 | 52 | 35 |
| External static pressure (Pa) | | 85 | 48 | 21 | 5 | 85 | 48 | 21 |
| Temperature exchange efficiency (%) | | 79 | 80 | 82 | 86 | — | — | — |
| Enthalpy exchange efficiency (%) | Heating | 69.5 | 72 | 76 | 83 | — | — | — |
| | 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 |
| Weight (kg) | | 23 | | | | | | |
| Specific energy consumption class | | A | | | | | | |

Characteristic Curves



Dimensions



Unit: mm

■ 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.

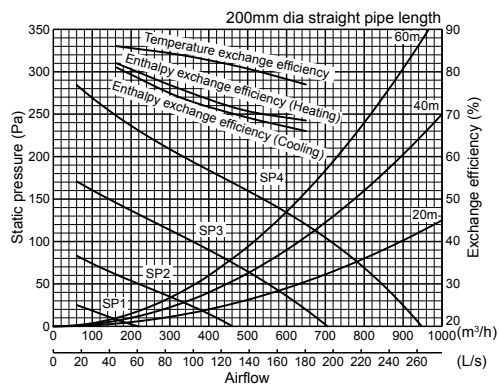
* Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

* For specifications at other frequencies, contact your dealer.

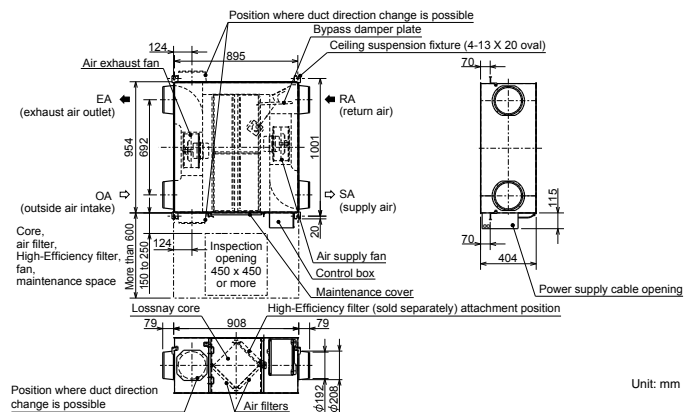
LGH-65RVX-E

| | | | | | | | | |
|---|--------------------------|------|------|------|-------------|------|------|------|
| 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) | 1.65 | 0.90 | 0.39 | 0.15 | 1.72 | 0.86 | 0.38 | 0.16 |
| Input power (W) | 252 | 131 | 49 | 15 | 262 | 131 | 47 | 17 |
| Airflow | (m ³ /h) | 650 | 488 | 325 | 163 | 650 | 488 | 325 |
| | (L/s) | 181 | 135 | 90 | 45 | 181 | 135 | 90 |
| External static pressure (Pa) | | 120 | 68 | 30 | 8 | 120 | 68 | 30 |
| 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) | | 34.5 | 29 | 22 | 18 | 35.5 | 29 | 22 |
| Weight (kg) | 38 | | | | | | | |

Characteristic Curves



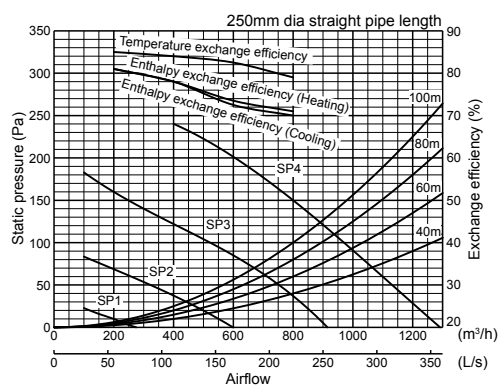
Dimensions



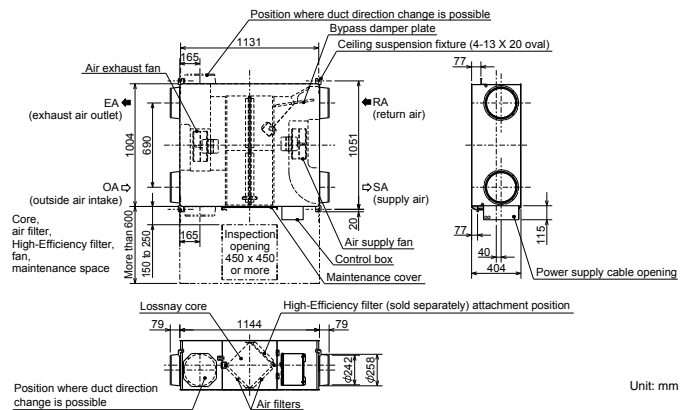
LGH-80RVX-E

| | | | | | | | | |
|---|--------------------------|------|------|------|-------------|------|------|------|
| 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) | 1.82 | 0.83 | 0.36 | 0.15 | 1.97 | 0.86 | 0.40 | 0.15 |
| Input power (W) | 335 | 151 | 60 | 18 | 340 | 151 | 64 | 20 |
| Airflow | (m ³ /h) | 800 | 600 | 400 | 200 | 800 | 600 | 400 |
| | (L/s) | 222 | 167 | 111 | 56 | 222 | 167 | 111 |
| External static pressure (Pa) | | 150 | 85 | 38 | 10 | 150 | 85 | 38 |
| 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) | | 34.5 | 30 | 23 | 18 | 36 | 30 | 23 |
| Weight (kg) | 48 | | | | | | | |

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.

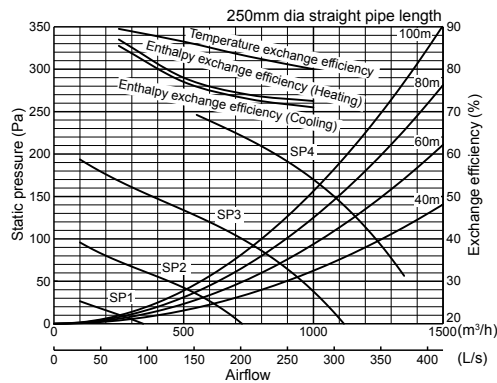
* Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

* For specifications at other frequencies, contact your dealer.

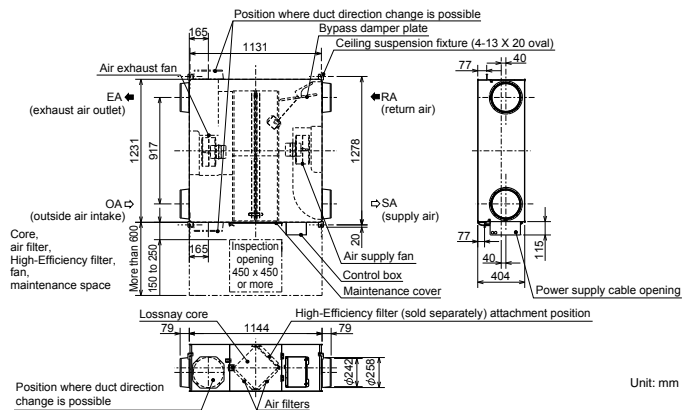
LGH-100RVX-E

| 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) | | 2.50 | 1.20 | 0.50 | 0.17 | 2.50 | 1.20 | 0.51 | 0.19 |
| Input power (W) | | 420 | 200 | 75 | 21 | 420 | 200 | 75 | 23 |
| Airflow | (m ³ /h) | 1000 | 750 | 500 | 250 | 1000 | 750 | 500 | 250 |
| | (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) | | 54 | | | | | | | |

Characteristic Curves



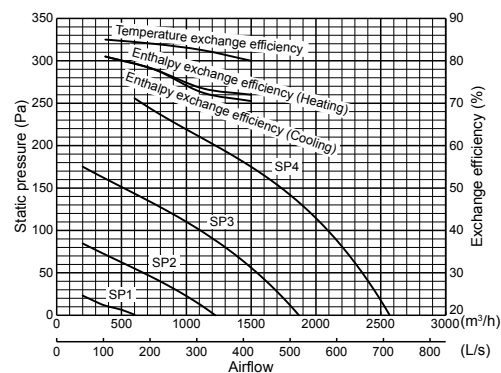
Dimensions



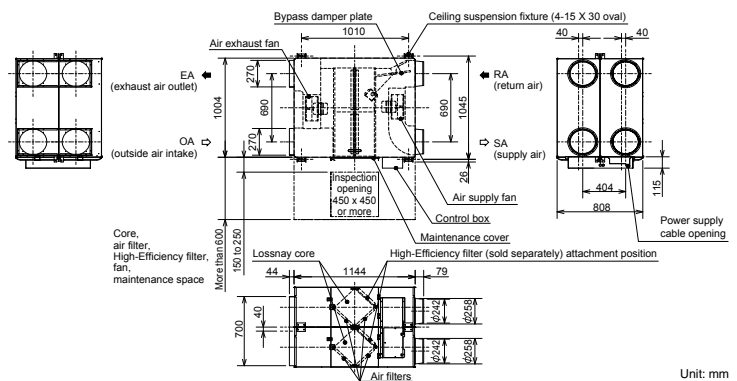
LGH-150RVX-E

| 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) | | 3.71 | 1.75 | 0.70 | 0.29 | 3.85 | 1.78 | 0.78 | 0.30 |
| Input power (W) | | 670 | 311 | 123 | 38 | 698 | 311 | 124 | 44 |
| Airflow | (m ³ /h) | 1500 | 1125 | 750 | 375 | 1500 | 1125 | 750 | 375 |
| | (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 | — | — | — | — |
| | Cooling | 70.5 | 72.5 | 78 | 81 | — | — | — | — |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) | | 39 | 32 | 24 | 18 | 40.5 | 33 | 26 | 18 |
| Weight (kg) | | 96 | | | | | | | |

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.

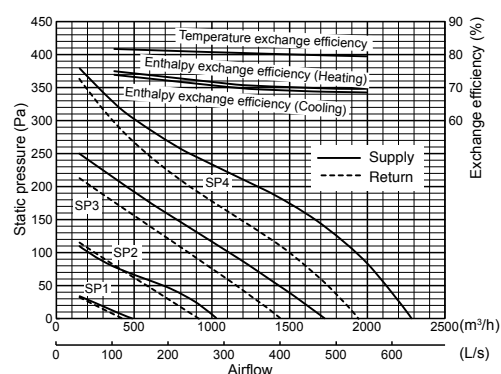
LGH-RVXT SERIES

Specifications

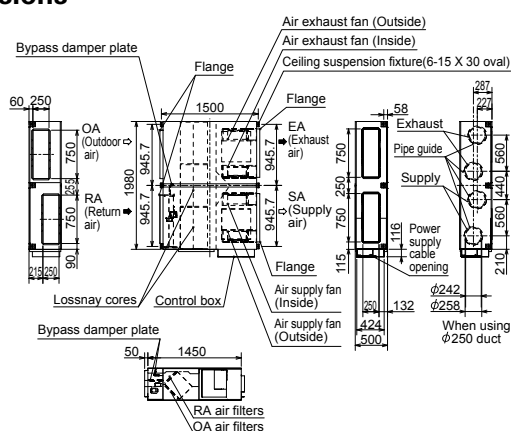
LGH-150RVXT-E

| 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) | | 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 | 37 |
| Airflow | (m ³ /h) | 1500 | 1125 | 750 | 375 | 1500 | 1125 | 750 | 375 |
| | (L/s) | 417 | 313 | 208 | 104 | 417 | 313 | 208 | 104 |
| External static pressure (Pa) | Supply | 175 | 98 | 44 | 11 | 175 | 98 | 44 | 11 |
| | 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) | | 39.5 | 35.5 | 29.5 | 22 | 39 | 33 | 26.5 | 20.5 |
| Weight (kg) | | 156 | | | | | | | |

Characteristic Curves



Dimensions

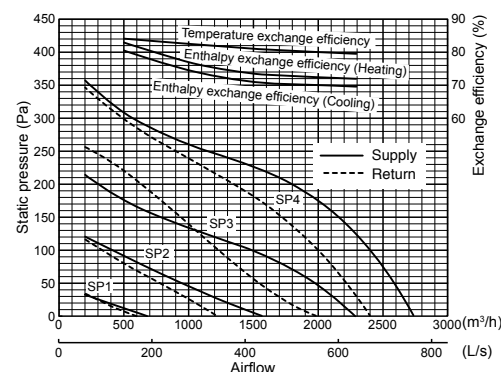


Unit: mm

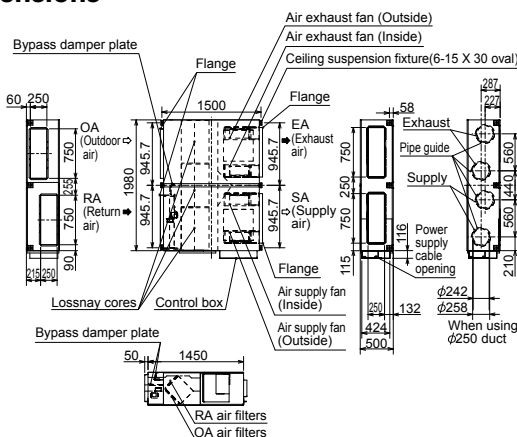
LGH-200RVXT-E

| 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) | | 5.40 | 2.70 | 1.10 | 0.39 | 5.00 | 2.20 | 0.85 | 0.34 |
| Input power (W) | | 1000 | 494 | 197 | 56 | 916 | 407 | 150 | 45 |
| Airflow | (m ³ /h) | 2000 | 1500 | 1000 | 500 | 2000 | 1500 | 1000 | 500 |
| | (L/s) | 556 | 417 | 278 | 139 | 556 | 417 | 278 | 139 |
| External static pressure (Pa) | Supply | 175 | 98 | 44 | 11 | 175 | 98 | 44 | 11 |
| | 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 | — | — | — | — |
| | 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) | | 159 | | | | | | | |

Characteristic Curves



Dimensions



Unit: mm

■ 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.

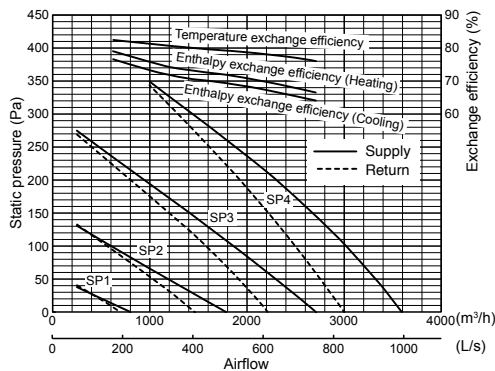
* Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

* For specifications at other frequencies, contact your dealer.

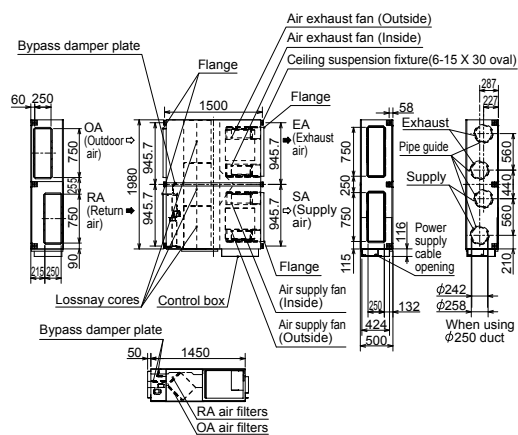
LGH-250RVXT-E

| | | | | | | | | |
|---|--------------------------|------|------|------|-------------|------|------|------|
| 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) | 7.60 | 3.60 | 1.40 | 0.57 | 6.90 | 3.10 | 1.30 | 0.49 |
| Input power (W) | 1446 | 687 | 244 | 82 | 1298 | 587 | 212 | 69 |
| Airflow | (m ³ /h) | 2500 | 1875 | 1250 | 625 | 2500 | 1875 | 1250 |
| | (L/s) | 694 | 521 | 347 | 174 | 694 | 521 | 347 |
| External static pressure (Pa) | Supply | 175 | 98 | 44 | 11 | 175 | 98 | 44 |
| | Return | 100 | 56 | 25 | 6 | 100 | 56 | 25 |
| Temperature exchange efficiency (%) | | 77 | 79 | 80.5 | 82.5 | — | — | — |
| Enthalpy exchange efficiency (%) | Heating | 68 | 71.5 | 74 | 79 | — | — | — |
| | Cooling | 65.5 | 69 | 71.5 | 76.5 | — | — | — |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) | | 43 | 39 | 32 | 24 | 44 | 38.5 | 31 |
| Weight (kg) | 198 | | | | | | | |

Characteristic Curves



Dimensions



Unit: mm

■ 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.

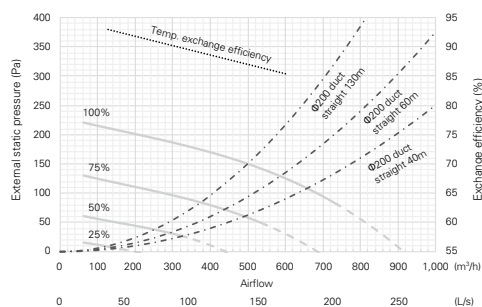
LGH-RVS SERIES

Specifications

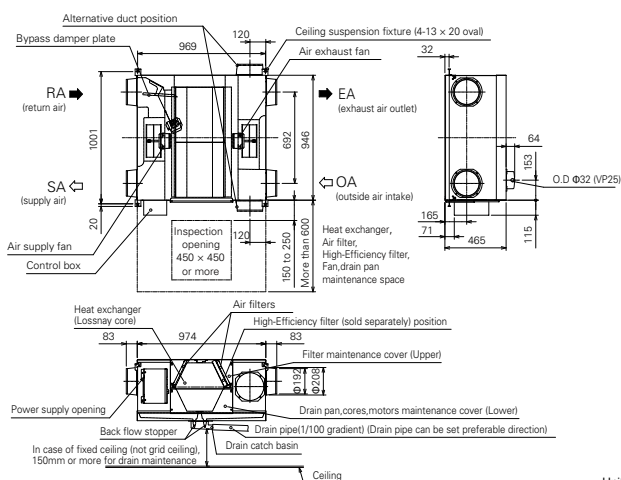
LGH-50RVS-E

| | | | | | |
|-------------------------------------|--------------------------------------|------|------|------|---|
| Weight | 55kg (67kg with maximum drain water) | | | | |
| Electrical power supply | 220-240V/50Hz, 220V/60Hz | | | | |
| Fan speed | 100% | 75% | 50% | 25% | Test condition |
| Input power (W) | 190 | 110 | 60 | 25 | ISO 16494 Temp. exchange efficiency is winter condition |
| Airflow | (m ³ /h) | 500 | 375 | 250 | |
| | (L/s) | 139 | 104 | 69 | |
| Specific fan power [W/(L/s)] | | 1.37 | 1.06 | 0.86 | |
| External static pressure (Pa) | | 150 | 84 | 38 | |
| Temperature exchange efficiency (%) | | 87.0 | 89.0 | 91.0 | 93.0 |
| Noise (dB) | | 33.0 | 27.0 | 22.0 | 18.0 |
| Exhaust air transfer ratio (%) | 5 | | | | A-weighted sound pressure level @1.5m off from the center of the unit in an anechoic chamber Tracer gas method @100% airflow (prEN308) |

Characteristic Curves



Dimensions

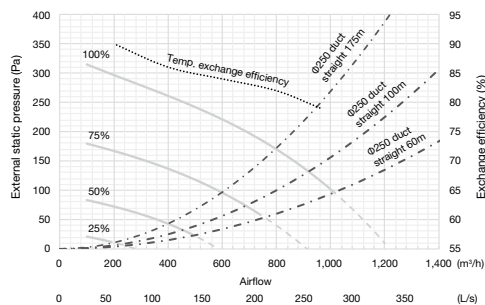


Unit: mm

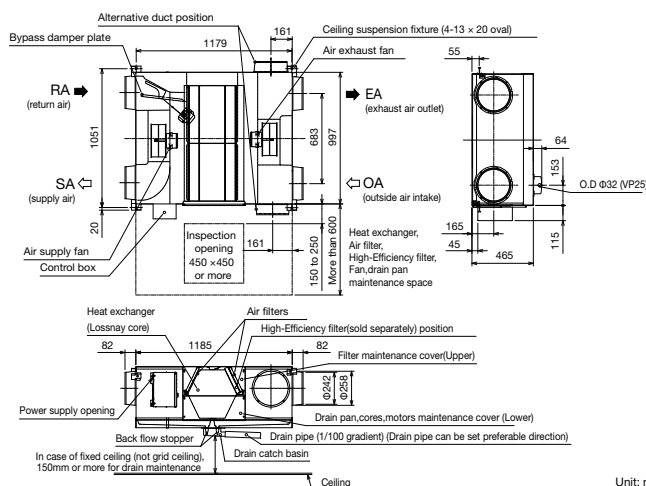
LGH-80RVS-E

| | | | | | |
|-------------------------------------|--------------------------------------|------|------|------|---|
| Weight | 63kg (77kg with maximum drain water) | | | | |
| Electrical power supply | 220-240V/50Hz, 220V/60Hz | | | | |
| Fan speed | 100% | 75% | 50% | 25% | Test condition |
| Input power (W) | 325 | 175 | 85 | 32 | ISO 16494 Temp. exchange efficiency is winter condition |
| Airflow | (m ³ /h) | 800 | 600 | 400 | |
| | (L/s) | 222 | 167 | 111 | |
| Specific fan power [W/(L/s)] | | 1.46 | 1.05 | 0.77 | |
| External static pressure (Pa) | | 170 | 96 | 43 | |
| Temperature exchange efficiency (%) | | 82.0 | 84.0 | 86.0 | 90.0 |
| Noise (dB) | | 36.0 | 30.0 | 25.0 | 18.0 |
| Exhaust air transfer ratio (%) | 5 | | | | A-weighted sound pressure level @1.5m off from the center of the unit in an anechoic chamber Tracer gas method @100% airflow (prEN308) |

Characteristic Curves



Dimensions



Unit: mm

■The input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz. Temperature exchange efficiency (%) is measured at indoor DB 20°C/WB15°C and outdoor DB 5°C/WB3°C. It is measured according to ISO16494.

When the indoor humidity is low and condensation in the heat exchanger does not occur, the exchange efficiency may be decreased in winter.

■The absolute humidity of RA shall be lower than 0.0139kg/kg (DA) in winter and relative humidity of RA shall be lower than 90%RH through the year. Example of the absolute humidity 0.0139kg/kg (DA) are 20.7°C 90%RH, 25°C 70%, 30°C 50% etc.

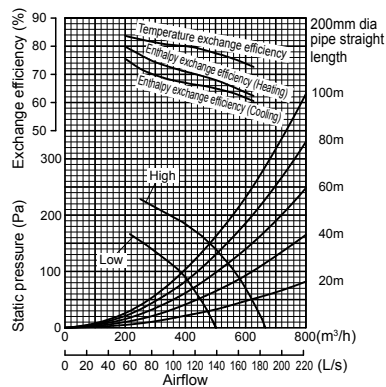
GUF SERIES

Specifications

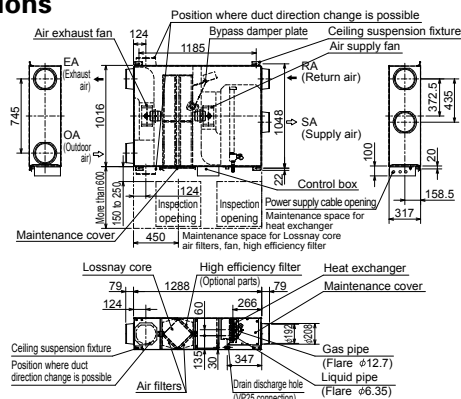
GUF-50RD4

| Electrical power supply | | 220-240V/50Hz | | | |
|---|-----------------------------|--------------------|-----------|-------------|-----------|
| Ventilation mode | | Heat recovery mode | | Bypass 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 ³ /h) | 500 | 400 | 500 | 400 |
| | (L/s) | 139 | 111 | 139 | 111 |
| External static pressure (Pa) | | 140 | 90 | 140 | 90 |
| Temperature exchange efficiency (%) | | 77.5 | 80 | — | — |
| Enthalpy exchange efficiency (%) | Heating | 68 | 71 | — | — |
| | Cooling | 65 | 67 | — | — |
| Cooling capacity (kW) | | 5.57 (1.94) | | | |
| Heating capacity (kW) | | 6.21 (2.04) | | | |
| Capacity equivalent to the indoor unit | | P32 | | | |
| Humidifier | Humidifying | — | | | |
| | Humidifying capacity (kg/h) | — | | | |
| | Water supply pressure | — | | | |
| Noise (dB) (Measured at 1.5m under 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) | | 48 | | | |

Characteristic Curves



Dimensions

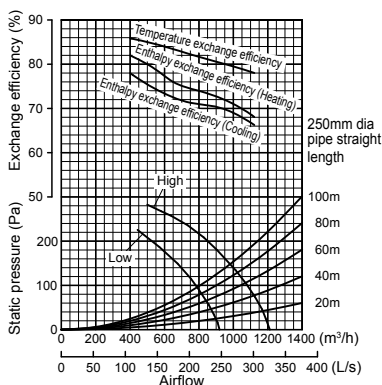


Unit: mm

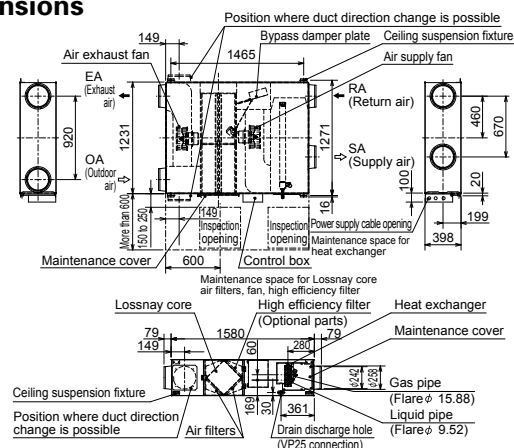
GUF-100RD4

| Electrical power supply | | 220-240V/50Hz | | | |
|---|-----------------------------|--------------------|---------|-------------|---------|
| Ventilation mode | | Heat recovery 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 | 385-410 |
| Airflow | (m ³ /h) | 1000 | 800 | 1000 | 800 |
| | (L/s) | 278 | 222 | 278 | 222 |
| External static pressure (Pa) | | 140 | 90 | 140 | 90 |
| Temperature exchange efficiency (%) | | 79.5 | 81.5 | — | — |
| Enthalpy exchange efficiency (%) | Heating | 71 | 74 | — | — |
| | Cooling | 69 | 71 | — | — |
| Cooling capacity (kW) | | 11.44 (4.12) | | | |
| Heating capacity (kW) | | 12.56 (4.26) | | | |
| Capacity equivalent to the indoor unit | | P63 | | | |
| Humidifier | Humidifying | — | | | |
| | Humidifying capacity (kg/h) | — | | | |
| | Water supply pressure | — | | | |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) | | 38-39 | 34-35 | 38-39 | 35-36 |
| Weight (kg) | | 82 | | | |

Characteristic Curves



Dimensions



Unit: mm

■ For GUF series

*Cooling/Heating capacity indicates the maximum value at operation under the following condition.

Cooling: Indoor: 27°C DB/19°C WB Outdoor: 35°C DB/24°C WB

Heating: Indoor: 20°C DB/13.8°C WB Outdoor: 7°C DB/6°C WB

*The figures in () indicates heat recovering capacity of heat exchanger core.

*Figures in the chart are measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

*When the total capacity of indoor units connected to 1 outdoor units (PUHY or PURY) exceeds the capacity of the total unit, the total capacity of GUF needs to be 30% and less of the connected outdoor unit capacity.

| | | | | | |
|---|-----------------------------|---|-----------|-------------|-----------|
| Electrical power supply | | 220-240V/50Hz | | | |
| Ventilation mode | | Heat recovery mode | | Bypass 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 | (m³/h) | 500 | 400 | 500 | 400 |
| | (L/s) | 139 | 111 | 139 | 111 |
| External static pressure (Pa) | | 125 | 80 | 125 | 80 |
| Temperature exchange efficiency (%) | | 77.5 | 80 | — | — |
| Enthalpy exchange efficiency (%) | Heating | 68 | 71 | — | — |
| | Cooling | 65 | 67 | — | — |
| Cooling capacity (kW) | | 5.57 (1.94) | | | |
| Heating capacity (kW) | | 6.21 (2.04) | | | |
| Capacity equivalent to the indoor unit | | P32 | | | |
| Humidifier | Humidifying | Permeable film humidifier | | | |
| | Humidifying capacity (kg/h) | 2.7 (heating) | | | |
| | Water supply pressure | Minimum pressure : 2.0 × 10⁴Pa Maximum pressure : 49.0 × 10⁴Pa | | | |
| Noise (dB) (Measured at 1.5m under 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) | | | |

Top View Labels:

- Position where duct direction change is possible
- Bypass damper plate
- Ceiling suspension fixture
- Air exhaust fan
- EA (Exhaust air)
- OA (Outdoor air)
- RA (Return air)
- Solenoid valve unit with pressure regulator
- SA (Supply air)
- Control box
- Power supply cable opening
- Maintenance space for heat exchanger
- permeable-film humidifier
- Maintenance space for Lossnay core air filters, fan, high efficiency filter
- High efficiency filter (Optional parts)
- Heat exchanger
- Permeable-film humidifier
- Maintenance cover (humidifier)
- Gas pipe (Flare $\phi 12.7$)
- Liquid pipe (Flare $\phi 6.35$)
- Drain discharge hole (VPZ connection)
- Air filters
- Water intake strainer (R1/2 of external thread)
- Ceiling suspension fixture
- Position where duct direction change is possible

Dimensions (mm):

- 745
- 1016
- 150 (max 600)
- 124
- 1185
- 1048
- 124
- 27
- 317
- 158.5
- 20
- 372.5
- 455
- 100
- 79
- 1288
- 79
- 266
- 124
- 60
- 79
- 137
- 347
- 102
- 30.9

| | | | | | |
|---|-----------------------------|---|---------|-------------|---------|
| Electrical power supply | | 220-240V/50Hz | | | |
| Ventilation mode | | Heat recovery mode | | Bypass 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 | 385-410 |
| Airflow | (m³/h) | 1000 | 800 | 1000 | 800 |
| | (L/s) | 278 | 222 | 278 | 222 |
| External static pressure (Pa) | | 135 | 86 | 135 | 86 |
| Temperature exchange efficiency (%) | | 79.5 | 81.5 | — | — |
| Enthalpy exchange efficiency (%) | Heating | 71 | 74 | — | — |
| | Cooling | 69 | 71 | — | — |
| Cooling capacity (kW) | | 11.44 (4.12) | | | |
| Heating capacity (kW) | | 12.56 (4.26) | | | |
| Capacity equivalent to the indoor unit | | P63 | | | |
| Humidifier | Humidifying | Permeable film humidifier | | | |
| | Humidifying capacity (kg/h) | 5.4 (heating) | | | |
| | Water supply pressure | Minimum pressure : 2.0 × 10⁴Pa Maximum pressure : 49.0 × 10⁴Pa | | | |
| Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) | | 38-39 | 34-35 | 38-39 | 35-36 |
| Weight (kg) | | 88 (filled with water 96) | | | |

The graph plots static pressure (Pa) on the y-axis (0 to 300) against airflow (m³/h) on the x-axis (0 to 400). It features three main efficiency curves: Temperature exchange efficiency (top), Enthalpy exchange efficiency (heating) (middle), and Enthalpy exchange efficiency (cooling) (bottom). The graph is divided into 'High' and 'Low' regions by a diagonal line. The static pressure ranges from 0 to 300 Pa, and the airflow ranges from 0 to 400 m³/h. The graph is labeled '250mm dia pipe straight length'.

[illegible]

304

GUG SERIES

(Optional Dx-coil Unit for Lossnay)

Temperature control equipment that works with Lossnay units and Mr.Slim outdoor units.

GUG-01SL-E (Connection to LGH-50RVX-E or 65RVX-E)

GUG-02SL-E (Connection to LGH-80RVX-E or 100RVX-E)

GUG-03SL-E (Connection to LGH-150RVX-E, LGH-150/200/250RVXT-E)

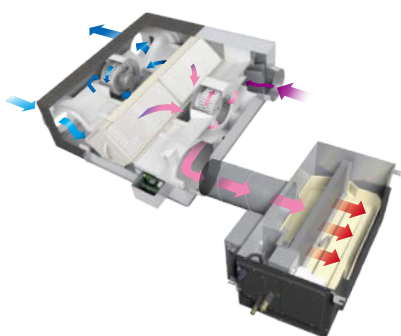


GUG-03SL-E

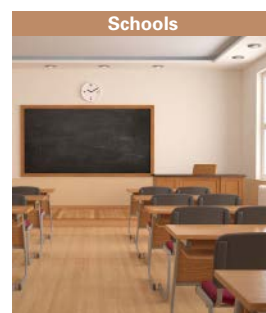
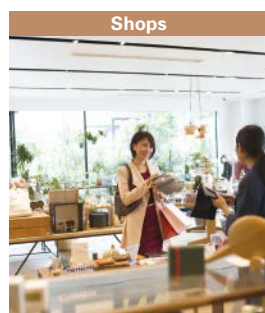
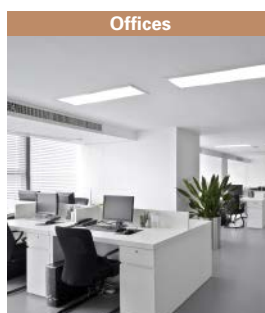
Supply comfortable control

Product Features

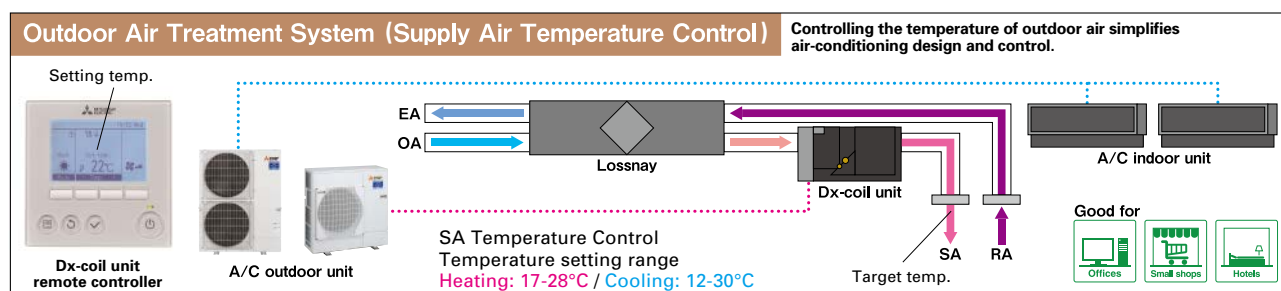
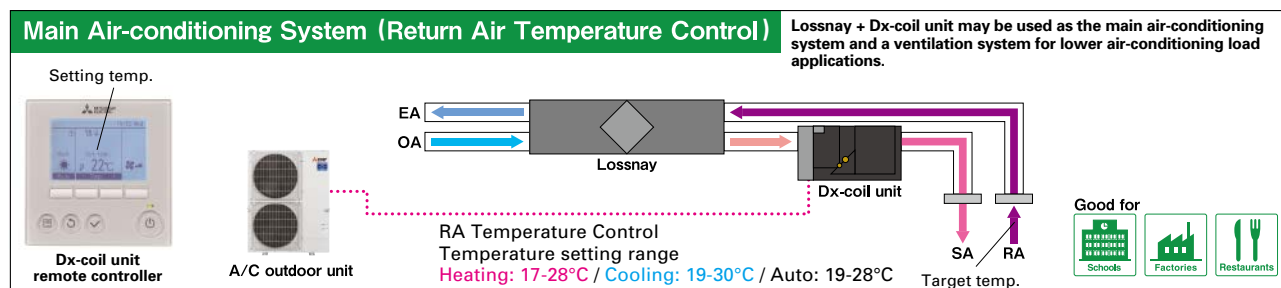
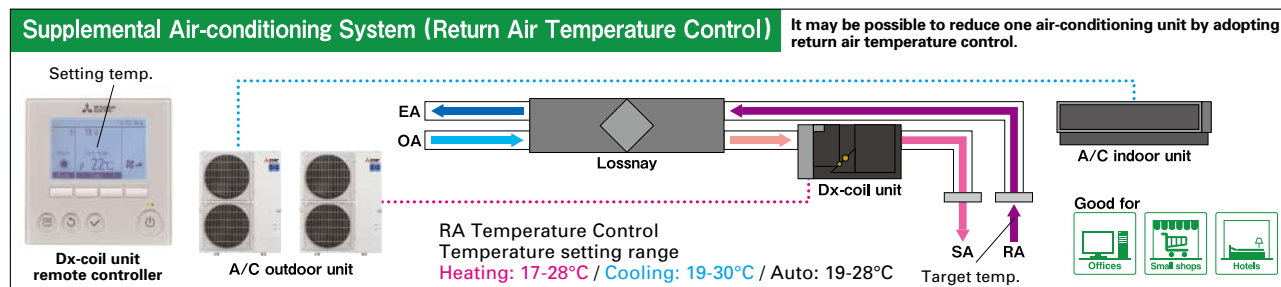
- Lossnay return air and supply air temperature control are possible by connecting the Dx-coil unit to Mr.Slim (power inverter series).
- Connecting the Dx-coil unit will expand Lossnay's temperature control range (500-2,500 CMH).
- Suitable for various applications such as offices, shops and schools etc.



■ Target Applications

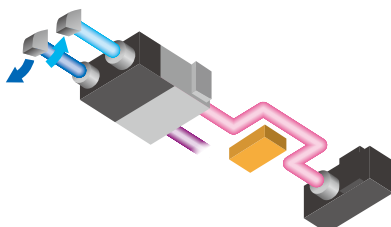


Application Examples



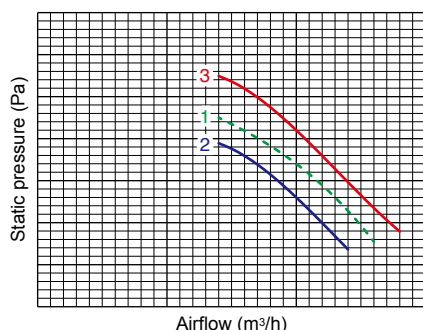
*The above images of using the LGH-RVXT Series are simply examples for reference.

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

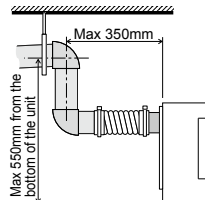
P-Q curve image

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-62DR-EA/EB Lossnay remote controller.

Drain Pump Equipment

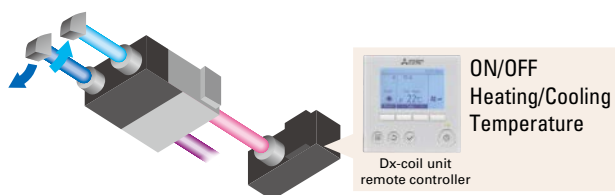
A built-in drain pump makes attaching the drain hose in the ceiling cavity easy, resulting in simple and fast installation.



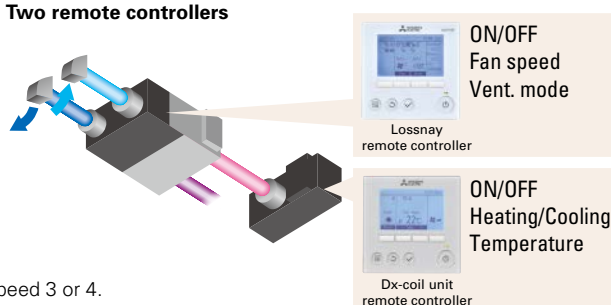
User-friendly system control

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 CO₂-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 mode | Fan speed order from external input | Actual fan speed | |
|--------------------|-------------------------------------|------------------|--------------------|
| | | Temp. priority | Fan speed priority |
| Heating or Cooling | FS4 | FS4 | FS4 |
| | FS3 | FS3 | FS3 |
| | FS2 | FS3 | FS2 |
| | FS1 | FS3 | FS1 |
| Fan | FS4 | FS4 | FS4 |
| | FS3 | FS3 | FS3 |
| | FS2 | FS2 | FS2 |
| | FS1 | FS1 | FS1 |

GUG SERIES

Specifications

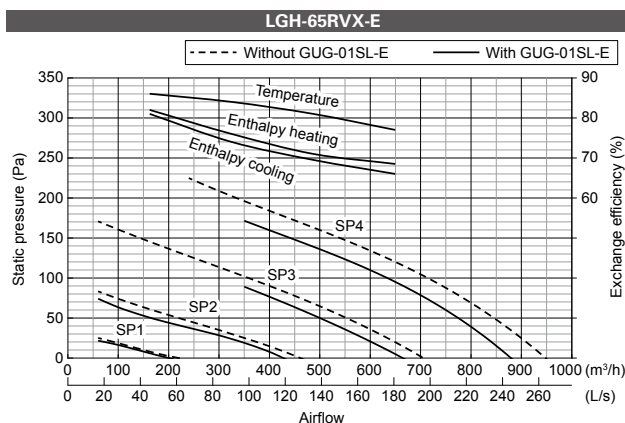
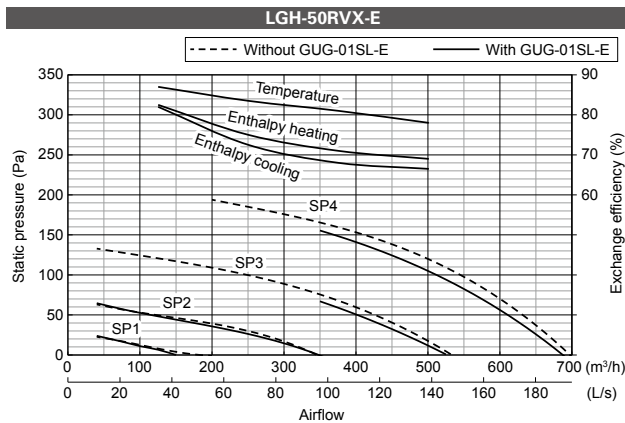


GUG-01SL-E

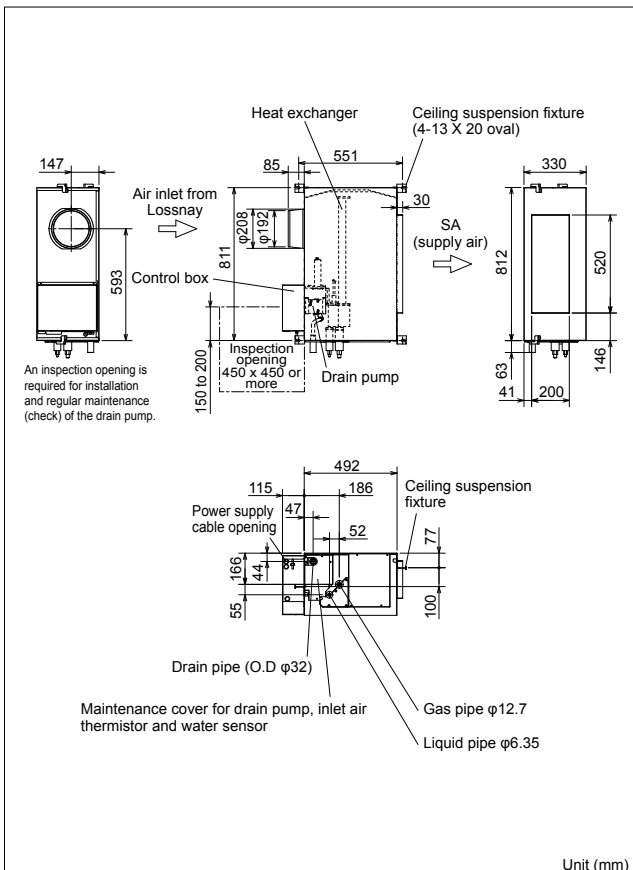
GUG-01SL-E (Connection to LGH-50RVX-E or LGH-65RVX-E)

| | | | | | | | | | |
|-------------------------------------|--|-------------------|-----|-----|-----|--|-------------------|-----|-----|
| Refrigerant | R410A | | | | | | | | |
| Electrical power supply | 220-240V / 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 | | | | | | | | |
| Function | Heating / Cooling / Auto / Fan *Auto is only available for RA temperature control | | | | | | | | |
| | RA (Return Air) temperature control | | | | | | | | |
| RA (Return Air) temperature control | | | | | | | | | |
| Connectable Lossnay unit | LGH-50RVX-E | | | | | LGH-65RVX-E | | | |
| Capacity [kW] | Heating | 6.5 (2.4 + 4.1) | | | | | 7.7 (3.2 + 4.5) | | |
| | Cooling | 5.6 (2.0 + 3.6) | | | | | 6.6 (2.6 + 4.0) | | |
| SHF | 0.66 | | | | | 0.69 | | | |
| Performance index | Heating | 4.09 | | | | | 4.72 | | |
| | Cooling | 4.69 | | | | | 5.03 | | |
| Airflow range at SP3 and SP4 | 350 - 695 m³/h | | | | | 350 - 900 m³/h | | | |
| Connectable outdoor unit | PUHZ-ZRP35 | | | | | PUHZ-ZRP35 | | | |
| Ext. piping | Diameter Liquid / Gas: 6.35 / 12.7 | | | | | Diameter Liquid / Gas: 6.35 / 12.7 | | | |
| | Maximum length: 50m, Maximum height: 30m | | | | | Maximum length: 50m, Maximum height: 30m | | | |
| Ventilation specifications | | | | | | | | | |
| Fan speed | | SP4 | SP3 | SP2 | SP1 | SP4 | SP3 | SP2 | SP1 |
| Airflow | [m³/h] | 500 | 375 | 250 | 125 | 650 | 488 | 325 | 163 |
| | [L/s] | 139 | 104 | 69 | 35 | 181 | 135 | 90 | 45 |
| External static pressure [Pa] | | 105 | 59 | 26 | 7 | 95 | 53 | 24 | 6 |

Characteristic Curves



Dimensions





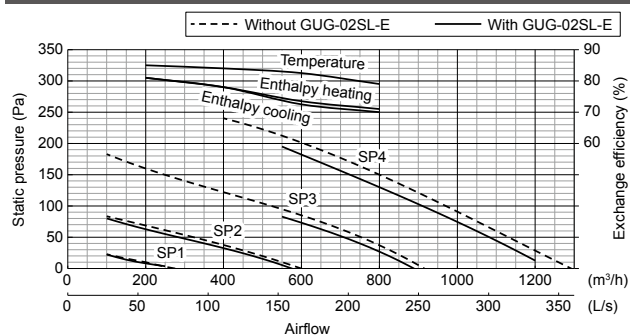
GUG-02SL-E

GUG-02SL-E (Connection to LGH-80RVX-E or LGH-100RVX-E)

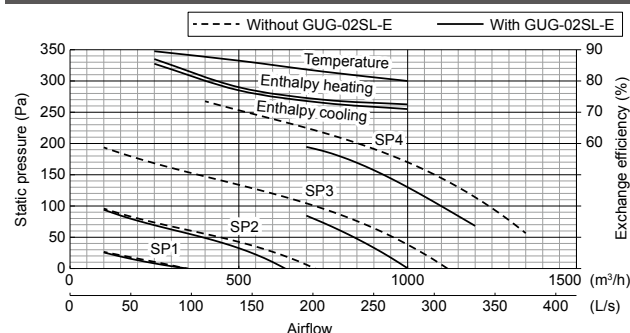
| | | | | | |
|-------------------------------------|---|--|-------------------------------|-----|-----|
| Refrigerant | R410A | | | | |
| Electrical power supply | 220-240V / 50Hz, 220V / 60Hz (Supplied from outdoor unit) | | | | |
| Input power | Heating / Fan: 2.5W, Cooling: 12.4W | | | | |
| Running current | Less than 0.1A | | | | |
| Weight | 26kg *Accessories: Approx. 1kg | | | | |
| Function | Heating / Cooling / Auto / Fan *Auto is only available for RA temperature control | | | | |
| | 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) temperature control | | | | | |
| Connectable Lossnay unit | LGH-80RVX-E | | LGH-100RVX-E | | |
| Capacity [kW] | Heating | 10.0 (4.0 + 6.0) | 13.2 (5.1 + 8.1) | | |
| | Cooling | 8.3 (3.3 + 5.0) | 11.3 (4.2 + 7.1) | | |
| SHF | 0.69 | | 0.66 | | |
| Performance index | Heating | 4.62 | 4.42 | | |
| | Cooling | 4.76 | 4.98 | | |
| Airflow range at SP3 and SP4 | 560 - 1200 m³/h | | 700 - 1200 m³/h | | |
| Connectable outdoor unit | PUHZ-ZRP50 | | PUHZ-ZRP71 | | |
| Ext. piping | Diameter Liquid / Gas: 6.35 / 12.7 | Diameter Liquid / Gas: 9.52 / 15.88 | | | |
| | Maximum length: 50m, Maximum height: 30m | Maximum length: 50m, Maximum height: 30m | | | |
| Required optional parts | PAC-SH30RJ-E and PAC-SH50RJ-E | | - | | |
| SA (Supply Air) temperature control | | | | | |
| Connectable Lossnay unit | LGH-80RVX-E | | LGH-100RVX-E | | |
| Capacity [kW] | Heating | 10.0 (4.0 + 6.0) | 11.4 (5.1 + 6.3) | | |
| | Cooling | 8.3 (3.3 + 5.0) | 9.5 (4.2 + 5.3) | | |
| SHF | 0.69 | | 0.73 | | |
| Performance index | Heating | 4.62 | 5.09 | | |
| | Cooling | 4.76 | 5.43 | | |
| Airflow range at SP3 and SP4 | 560 - 1200 m³/h | | 700 - 1200 m³/h | | |
| Connectable outdoor unit | PUHZ-ZRP50 | | PUHZ-ZRP50 | | |
| Ext. piping | Diameter Liquid / Gas: 6.35 / 12.7 | Diameter Liquid / Gas: 6.35 / 12.7 | | | |
| | Maximum length: 50m, Maximum height: 30m | Maximum length: 50m, Maximum height: 30m | | | |
| Required optional parts | PAC-SH30RJ-E and PAC-SH50RJ-E | | PAC-SH30RJ-E and PAC-SH50RJ-E | | |
| Ventilation specifications | | | | | |
| Connectable Lossnay unit | LGH-80RVX-E | | | | |
| Fan speed | SP4 | SP3 | SP2 | SP1 | |
| Airflow | [m³/h] | 800 | 600 | 400 | 200 |
| | [L/s] | 222 | 167 | 111 | 56 |
| External static pressure [Pa] | 130 | 73 | 33 | 8 | |
| LGH-100RVX-E | | | | | |
| Fan speed | SP4 | SP3 | SP2 | SP1 | |
| Airflow | [m³/h] | 1,000 | 750 | 500 | 250 |
| | [L/s] | 278 | 208 | 139 | 69 |
| External static pressure [Pa] | 130 | 73 | 33 | 8 | |

Characteristic Curves

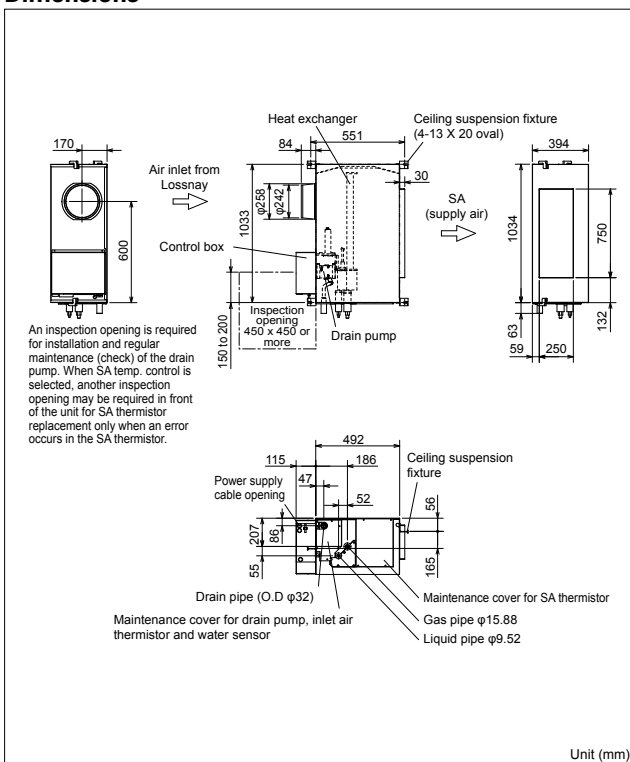
LGH-80RVX-E



LGH-100RVX-E



Dimensions



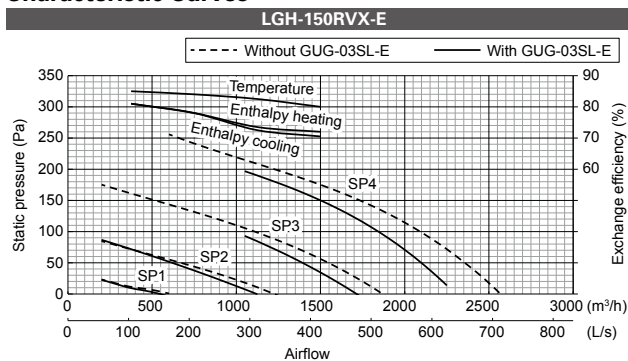


GUG-03SL-E

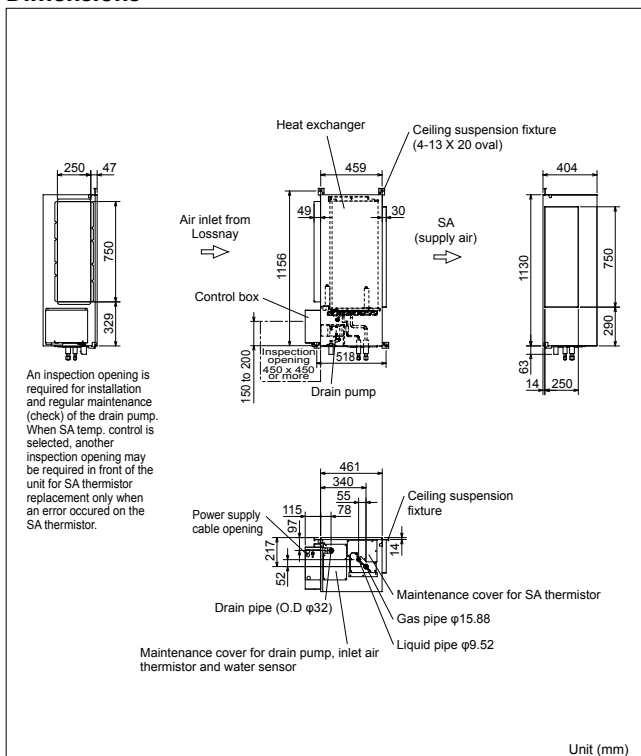
GUG-03SL-E (Connection to LGH-150RVX-E)

| | | | | | |
|-------------------------------------|---|--|-------|-----|-----|
| Refrigerant | R410A | | | | |
| Electrical power supply | 220-240V / 50Hz, 220V / 60Hz (Supplied from outdoor unit) | | | | |
| Input power | Heating / Fan: 2.5W, Cooling: 12.4W | | | | |
| Running current | Less than 0.1A | | | | |
| Weight | 28kg *Accessories: Approx. 1kg | | | | |
| Function | Heating / Cooling / Auto / Fan *Auto is only available for RA temperature control | | | | |
| | 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) temperature control | | | | | |
| Connectable Lossnay unit | LGH-150RVX-E | | | | |
| Capacity [kW] | Heating | 20.7 (7.7 + 13.0) | | | |
| | Cooling | 15.8 (6.3 + 9.5) | | | |
| SHF | | 0.68 | | | |
| Performance index | Heating | 4.24 | | | |
| | Cooling | 5.27 | | | |
| Airflow range at SP3 and SP4 | 1050 - 2250 m³/h | | | | |
| Connectable outdoor unit | PUHZ-ZRP100 | | | | |
| Ext. piping | Diameter | Liquid / Gas: 9.52 / 15.88 | | | |
| | | Maximum length: 75m, Maximum height: 30m | | | |
| SA (Supply Air) temperature control | | | | | |
| Connectable Lossnay unit | LGH-150RVX-E | | | | |
| Capacity [kW] | Heating | 16.6 (7.7 + 8.9) | | | |
| | Cooling | 13.4 (6.3 + 7.1) | | | |
| SHF | | 0.85 | | | |
| Performance index | Heating | 5.46 | | | |
| | Cooling | 5.32 | | | |
| Airflow range at SP3 and SP4 | 1050 - 2250 m³/h | | | | |
| Connectable outdoor unit | PUHZ-ZRP71 | | | | |
| Ext. piping | Diameter | Liquid / Gas: 9.52 / 15.88 | | | |
| | | Maximum length: 50m, Maximum height: 30m | | | |
| Ventilation specifications | | | | | |
| Connectable Lossnay unit | LGH-150RVX-E | | | | |
| Fan speed | | SP4 | SP3 | SP2 | SP1 |
| Airflow | [m³/h] | 1,500 | 1,125 | 750 | 375 |
| | [L/s] | 417 | 313 | 208 | 104 |
| External static pressure [Pa] | | 150 | 84 | 38 | 9 |

Characteristic Curves



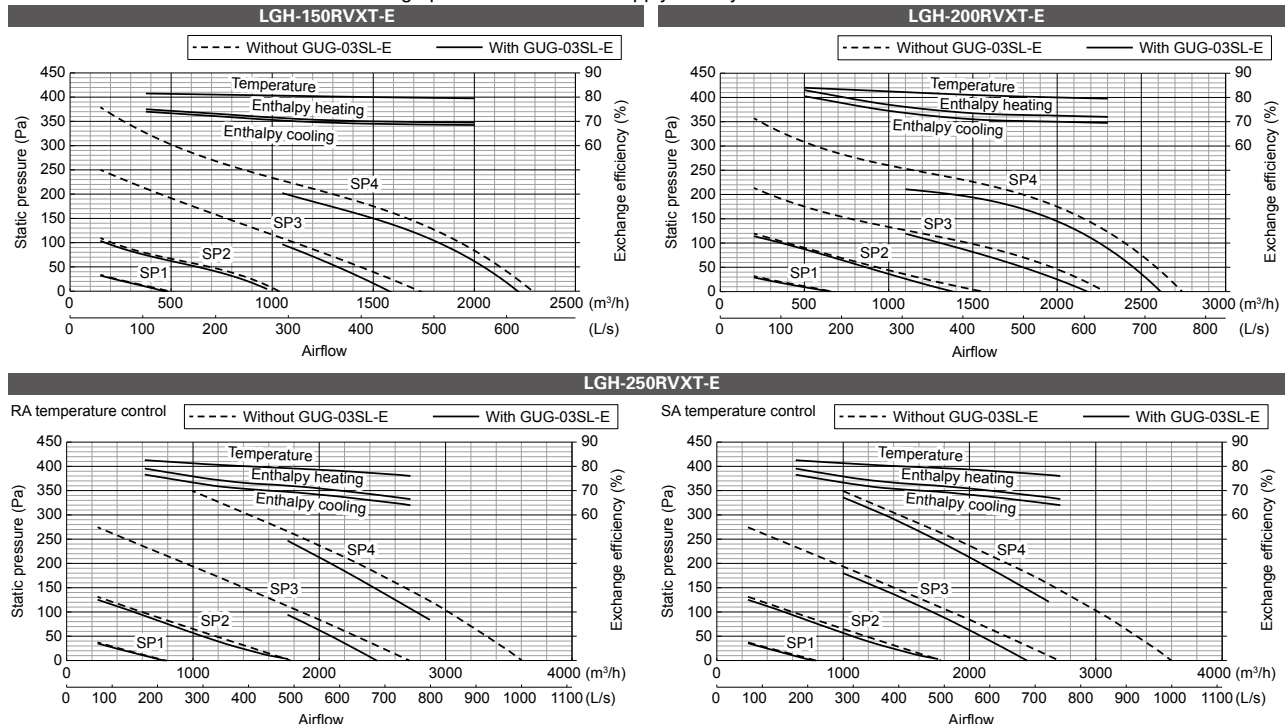
Dimensions



GUG-03SL-E (Connection to LGH-150RVXT-E, LGH-200RVXT-E or LGH-250RVXT-E)

| | | | | | | | | | | | | | |
|-------------------------------------|---|----------------------------|-------|-----|--|----------------------------|-------|-------|--|----------------------------|-------|-------|-----|
| Refrigerant | R410A | | | | | | | | | | | | |
| Electrical power supply | 220-240V / 50Hz, 220V / 60Hz (Supplied from outdoor unit) | | | | | | | | | | | | |
| Input power | Heating / Fan: 2.5W, Cooling: 12.4W | | | | | | | | | | | | |
| Running current | Less than 0.1A | | | | | | | | | | | | |
| Weight | 28kg *Accessories: Approx. 1kg | | | | | | | | | | | | |
| Function | Heating / Cooling / Auto / Fan *Auto is only available for RA temperature control | | | | | | | | | | | | |
| | 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) temperature control | | | | | | | | | | | | | |
| Connectable Lossnay unit | | LGH-150RVXT-E | | | | LGH-200RVXT-E | | | | LGH-250RVXT-E | | | |
| Capacity [kW] | Heating | 20.4 (7.4 + 13.0) | | | | 23.8 (10.3 + 13.5) | | | | 26.1 (12.1 + 14.0) | | | |
| | Cooling | 15.7 (6.2 + 9.5) | | | | 18.4 (8.4 + 10.0) | | | | 22.3 (9.8 + 12.5) | | | |
| SHF | | 0.68 | | | | 0.76 | | | | 0.87 | | | |
| Performance index | Heating | 4.07 | | | | 4.86 | | | | 4.75 | | | |
| | Cooling | 5.03 | | | | 5.59 | | | | 4.59 | | | |
| Airflow range at SP3 and SP4 | | 1050 - 2250 m³/h | | | | 1050 - 2600 m³/h | | | | 1750 - 2880 m³/h | | | |
| Connectable outdoor unit | | PUHZ-ZRP100 | | | | PUHZ-ZRP100 | | | | PUHZ-ZRP125 | | | |
| Ext. piping | Diameter | Liquid / Gas: 9.52 / 15.88 | | | | Liquid / Gas: 9.52 / 15.88 | | | | Liquid / Gas: 9.52 / 15.88 | | | |
| | Maximum length: 75m, Maximum height: 30m | | | | Maximum length: 75m, Maximum height: 30m | | | | Maximum length: 75m, Maximum height: 30m | | | | |
| SA (Supply Air) temperature control | | | | | | | | | | | | | |
| Connectable Lossnay 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 | | 0.86 | | | | 0.90 | | | | 0.95 | | | |
| Performance index | Heating | 5.16 | | | | 6.01 | | | | 5.97 | | | |
| | Cooling | 5.03 | | | | 5.54 | | | | 5.31 | | | |
| Airflow range at SP3 and SP4 | | 1050 - 2250 m³/h | | | | 1050 - 2600 m³/h | | | | 1000 - 2600 m³/h | | | |
| Connectable outdoor unit | | PUHZ-ZRP71 | | | | PUHZ-ZRP71 | | | | PUHZ-ZRP71 | | | |
| Ext. piping | Diameter | Liquid / Gas: 9.52 / 15.88 | | | | Liquid / Gas: 9.52 / 15.88 | | | | Liquid / Gas: 9.52 / 15.88 | | | |
| | Maximum length: 50m, Maximum height: 30m | | | | Maximum length: 50m, Maximum height: 30m | | | | Maximum length: 50m, Maximum height: 30m | | | | |
| Ventilation specifications | | | | | | | | | | | | | |
| Connectable Lossnay unit | | LGH-150RVXT-E | | | | LGH-200RVXT-E | | | | LGH-250RVXT-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 pressure [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

- 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
- 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.
- "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
- 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.
- 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.
- 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.
- 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 or disassemble the product yourself and always ask a professional.

CONTROL TECHNOLOGIES

New model



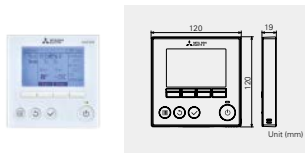
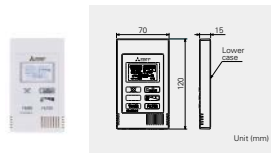
PZ-62DR-EA/EB

Multi-language Display

Control panel operation in 17 different languages. Choose a desired language, among the following languages.

| | | -EA | -EB |
|----------|------------|-----|-----|
| Language | English | ● | ● |
| | German | ● | ● |
| | Spanish | ● | ● |
| | French | ● | ● |
| | Italian | | ● |
| | Russian | ● | |
| | Portuguese | | ● |
| | Swedish | | ● |
| | Dutch | ● | |
| | Turkish | ● | |
| | Polish | ● | |
| | Greek | | ● |
| | Czech | ● | |
| | Hungarian | ● | |
| | Slovenian | | ● |
| | Bulgarian | ● | |
| | Danish | | ● |

Compatibility Table

| Function | PZ-62DR-EA/EB | | PZ-43SMF-E |
|--|--|---|---|
| |  | |  |
| | LGH-RVX / RVXT | LGH-RVS | LGH-RVX / RVXT / RVS |
| Fan speed selection | 4 fan speeds | 4 fan speeds and Auto (Auto is available when using a CO ₂ sensor) | 2 of 4 fan speeds |
| Control with a CO ₂ sensor (Mitsubishi Electric) | No | Yes (Fan speed automatically changes from 25% to 100% depending on the CO ₂ concentration*) | No |
| Control with a CO ₂ sensor (Field supply) | Yes (Fan speed automatically changes between 4 levels depending on the CO ₂ concentration) | Yes (Fan speed automatically changes from 25% to 100% depending on the CO ₂ concentration*) | No |
| Ventilation mode selection | Energy recovery / Bypass / Auto | Energy recovery / Bypass / Auto | Energy recovery / Bypass / Auto |
| Night-purge | Yes | Yes | No |
| Function setting from remote controller | Yes | Yes | No |
| Bypass temp. free setting | Yes (Set in Function setting menu) | Yes | No |
| Multi-stage airflow control | No | Yes (Both supply and exhaust fan speeds can be set separately from 25% to 100% in 5% pitches) | No |
| ON/OFF timer | Yes | Yes | Yes |
| Auto-off timer | Yes | Yes | No |
| Weekly timer | Yes | Yes | No |
| Fan speed timer | Yes | Yes | No |
| Operation restrictions (ON/OFF, ventilation mode, fan speed) | Yes | Yes | No |
| Operation restrictions (fan speed skip setting) | Yes | Yes | No |
| Screen contrast adjustment | Yes | Yes | No |
| Language selection | Yes | Yes | No (English only) |
| CO ₂ concentration indication | No | Yes (available when using our manufactured CO ₂ sensor) | No |
| Filter cleaning sign | Yes | Yes (maintenance interval can be changed) | Yes |
| Lossnay core cleaning sign | Yes | No | No |
| Error indication | Yes (displays model name, serial number, contact information) | Yes (displays model name, serial number, contact information) | Yes |
| Error history | Yes | Yes | No |
| OA / RA / SA temp. display | Yes | Yes | No |

*Upper and lower limits may differ when using a CO₂ sensor.

Filters & Accessories

Filters For LGH-RVX Series & LGH-RVXT Series & GUF Series

Standard Filters

Replacements for the standard filter supplied with the Lossnay main unit.



| Filter | | | | | Lossnay | |
|-------------------|----------------|--------------|--------------------------|--------------------|---------------------------------------|------------------------|
| Filter Material | Classification | | Model Name | Included piece/set | Applicable model | Required filter pieces |
| | ISO 16890 | EN779 (2012) | | | | |
| Non-woven Fabrics | Coarse 35% | G3* | PZ-15RF ₈ -E | 2 | LGH-15RVX-E | 2 |
| | | | PZ-25RF ₈ -E | 4 | LGH-25RVX-E | 4 |
| | | | PZ-35RF ₈ -E | 4 | LGH-35RVX-E | 4 |
| | | | PZ-50RF ₈ -E | 4 | LGH-50RVX-E, GUF-50RD4, GUF-50RDH4 | 4 |
| | | | PZ-65RF ₈ -E | 4 | LGH-65RVX-E | 4 |
| | | | PZ-80RF ₈ -E | 4 | LGH-80RVX-E | 4 |
| | | | PZ-100RF ₈ -E | 4 | LGH-100RVX-E, GUF-100RD4, GUF-100RDH4 | 4 |
| | Coarse 50% | G3 | PZ-150RTF-E | 4 | LGH-150RVXT-E | 4 |
| | | | PZ-250RTF-E | 4 | LGH-200RVXT-E, LGH-250RVXT-E | 4 |
| | | | | | | |

*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 Material | Classification | | Model Name | Included piece/set | Applicable model | Required filter pieces |
| | ISO 16890 | EN779 (2012) | | | | |
| Synthetic fiber | ePM ₁₀ 75% | M6* | PZ-15RFM-E | 1 | LGH-15RVX-E | 1 |
| | | | PZ-25RFM-E | 2 | LGH-25RVX-E | 2 |
| | | | PZ-35RFM-E | 2 | LGH-35RVX-E | 2 |
| | | | PZ-50RFM-E | 2 | LGH-50RVX-E, GUF-50RD4, GUF-50RDH4 | 2 |
| | | | PZ-65RFM-E | 2 | LGH-65RVX-E | 2 |
| | | | PZ-80RFM-E | 2 | LGH-80RVX-E | 2 |
| | | | | | LGH-150RVX-E | 4 |
| | | | PZ-100RFM-E | 2 | LGH-100RVX-E, GUF-100RD4, GUF-100RDH4 | 2 |

*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 0.5µm or larger)



| Filter | | | | | Lossnay | |
|-----------------|---|--------------------|---------------------------|--------------------|---------------------------------------|------------------------|
| Filter Material | Classification | | Model Name | Included piece/set | Applicable model | Required filter pieces |
| | ISO 16890 | ASHRAE 52.2 (2017) | | | | |
| Synthetic fiber | ePM ₁ 75% ePM _{2.5} 80% ePM ₁₀ 95% | MERV16 | PZ-15RFP ₂ -E | 1 | LGH-15RVX-E | 1 |
| | | | PZ-25RFP ₂ -E | 2 | LGH-25RVX-E | 2 |
| | | | PZ-35RFP ₂ -E | 2 | LGH-35RVX-E | 2 |
| | | | PZ-50RFP ₂ -E | 2 | LGH-50RVX-E, GUF-50RD4, GUF-50RDH4 | 2 |
| | | | PZ-65RFP ₂ -E | 2 | LGH-65RVX-E | 2 |
| | | | PZ-80RFP ₂ -E | 2 | LGH-80RVX-E | 2 |
| | | | | | LGH-150RVX-E | 4 |
| | | | PZ-100RFP ₂ -E | 2 | LGH-100RVX-E, GUF-100RD4, GUF-100RDH4 | 2 |

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 Material | Classification | | Model Name | Included piece/set | Applicable model | Required filter pieces |
| | ISO 16890 | EN779 (2012) | | | | |
| Non-woven Fabrics | ePM ₁₀ 75% | M6* | PZ-M6RTFM-E | 3 | LGH-150RVXT-E, LGH-200RVXT-E, LGH-250RVXT-E | 3 |
| | ePM ₁ 65% ePM _{2.5} 75% ePM ₁₀ 90% | F8* | PZ-F8RTFM-E | 3 | | |
| | | M6* | PZ-M6TDF-E | 3 | | |
| | | F8* | PZ-F8TDF-E | 3 | | |

*There is no data for the classification in EN779 (2002).

Filters For LGH-RVS Series

Filters

A lineup of three types of filters offers optimum indoor air quality solutions! All filters are ISO and EN779:2012 certified, and can be easily installed in the units. Maintenance and exchanges can also be performed easily, simply by opening the maintenance panel.



Standard Filter



| Filter | | | | Lossnay | | |
|-------------------|------------------|--------------|-------------|--------------------|------------------|-------------------|
| Filter material | Classification | | Model name | Included piece/set | Applicable model | Required set/unit |
| | ISO 16890 (2016) | EN779 (2012) | | | | |
| Non-woven fabrics | Coarse 50% | G3 | PZ-S50RF-E | 2 | LGH-50RVS-E | 1 |
| | | | PZ-S80RF-E | 2 | LGH-80RVS-E | 1 |
| | | | PZ-S100RF-E | 2 | LGH-100RVS-E | 1 |

High-efficiency Filter



| Filter | | | | Lossnay | | |
|-----------------|------------------|--------------|--------------|--------------------|------------------|-------------------|
| Filter material | Classification | | Model name | Included piece/set | Applicable model | Required set/unit |
| | ISO 16890 (2016) | EN779 (2012) | | | | |
| Pleated filter | ePM10 80% | M6 | PZ-S50RFM-E | 2 | LGH-50RVS-E | 1 |
| | | | PZ-S80RFM-E | 2 | LGH-80RVS-E | 1 |
| | | | PZ-S100RFM-E | 2 | LGH-100RVS-E | 1 |

Advanced High-efficiency Filter



| Filter | | | | Lossnay | | |
|-----------------|------------------------|--------------|--------------|--------------------|------------------|-------------------|
| Filter material | Classification | | Model name | Included piece/set | Applicable model | Required set/unit |
| | ISO 16890 (2016) | EN779 (2012) | | | | |
| Pleated filter | ePM ₁₀ 90% | F8 | PZ-S50RFH-E | 2 | LGH-50RVS-E | 1 |
| | ePM _{2.5} 75% | | PZ-S80RFH-E | 2 | LGH-80RVS-E | 1 |
| | ePM ₁ 65% | | PZ-S100RFH-E | 2 | LGH-100RVS-E | 1 |

Accessories For LGH-RVS Series

CO₂ Sensor

A CO₂ sensor connected directly to a Lossnay RVS unit optimizes the fan speed according to the level of CO₂ detected. It improves total heat exchange efficiency and contributes to energy saving.



PZ-70CSW-E

(Wall mounted type)

CO₂ levels are indicated by LED lights.



PZ-70CSB-E

(Built-in type)



■ Automatic operation with CO₂ sensor and PZ-62DR-E

Fan speed automatically changes depending on CO₂ concentration.

Accessories For LGH-RVX/RVS Series & GUF Series

Duct Silencer

In facilities and applications requiring quiet operations, the silencer duct that reduces noise levels is the ideal solution. It contains glass wool and attenuates sound power by absorbing the noise from the airflow or operation of the unit.

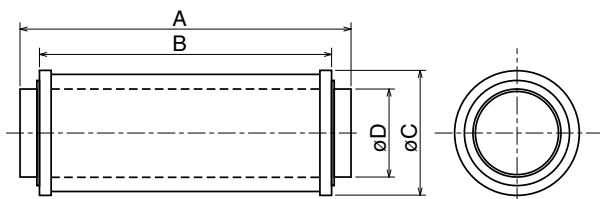


Specifications

| Model | Airflow [m³/h] | Attenuation of sound power level [dB] for center frequency (Discharge) | | | | | | | |
|------------|-------------------|--|-------|-------|-------|--------|--------|--------|--------|
| | | 62.5Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz |
| PZ-100SS-E | 50 | 0 | 3 | 5 | 7 | 6 | 6 | 6 | 8 |
| | 150 | 0 | 3 | 6 | 7 | 7 | 7 | 7 | 9 |
| PZ-150SS-E | 250 | 0 | 1 | 5 | 8 | 15 | 21 | 20 | 14 |
| | 350 | 0 | 1 | 4 | 8 | 14 | 21 | 21 | 16 |
| PZ-200SS-E | 500 | 0 | 1 | 4 | 7 | 13 | 18 | 16 | 9 |
| | 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 |

- Figures on the chart above are based on the comparison with a general steel duct of the same length.
- The silencer is placed on just before the outlet during the measurement.
- When the airflow rate differs, the insertion loss is also different from the chart above.
- Figures on the chart above are flat (No-weighted) values.

Dimensions

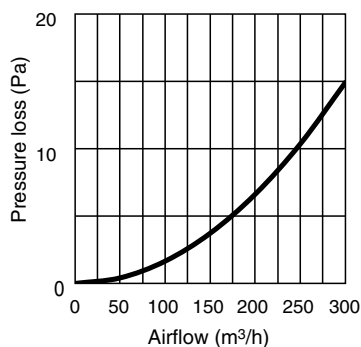


Unit: mm

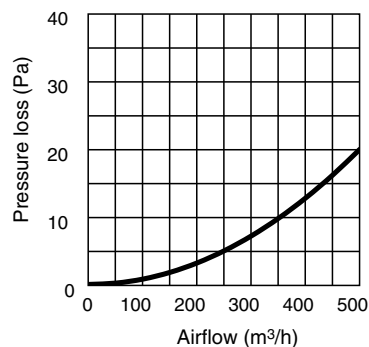
| Model | A | B | C | D | Connecting duct | Weight (kg) |
|------------|-----|-----|-----|-----|-----------------|-------------|
| PZ-100SS-E | 450 | 400 | 152 | 99 | ø100 | 1.9 |
| PZ-150SS-E | 560 | 500 | 202 | 149 | ø150 | 3.5 |
| PZ-200SS-E | 660 | 600 | 252 | 199 | ø200 | 5.3 |
| PZ-250SS-E | 660 | 600 | 332 | 249 | ø250 | 8.9 |

Pressure loss curve

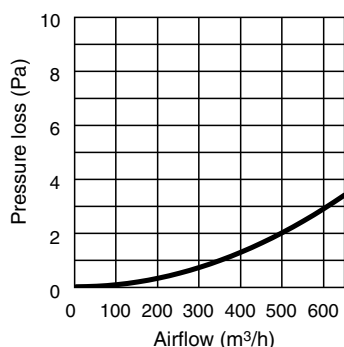
PZ-100SS-E



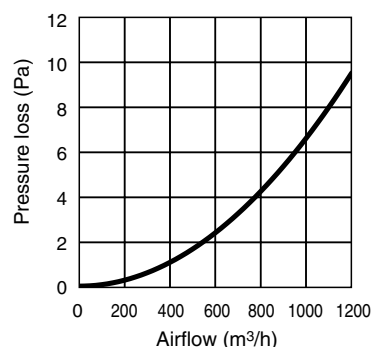
PZ-150SS-E



PZ-200SS-E



PZ-250SS-E



VL-CZPVU SERIES

Vertical type centralized ventilation with sensible heat exchange for residential use.

VL-250CZPVU-R/L-E
VL-350CZPVU-R/L-E
VL-500CZPVU-R/L-E



Key features



Quiet Operation

Noise is one of the most common concerns for residential ventilation. Ultra quiet operation is achieved with the sirocco fan designed by Mitsubishi Electric. The balance between airflow and static pressure is optimized and the fan rotation is minimized, leading to low noise levels.

Air Purification

An optional filter removes NOx and PM2.5 and improves 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).
*PM2.5: Airborne particulates that are 2.5µm or smaller in size.

Wi-Fi Control

MELCloud is a Cloud-based solution for controlling Lossnay units either locally or remotely by computer, tablet or smartphone via the Internet. It allows Lossnay operations to be checked and controlled via MELCloud from virtually anywhere and Internet connection is available. With MELCloud, the Lossnay system can be used much more easily and conveniently.

Energy efficiency

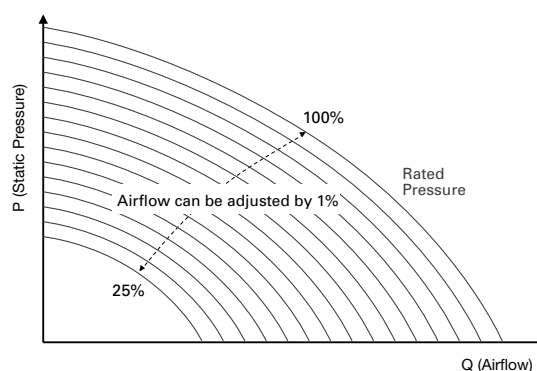
Under regulation (EU) No. 1254/2014, the VL-CZPVU series has the highest energy-saving performance in its class (ErP A⁺). It saves heating and cooling costs by minimizing the energy loss that occurs during ventilation.

ErP A⁺

A⁺

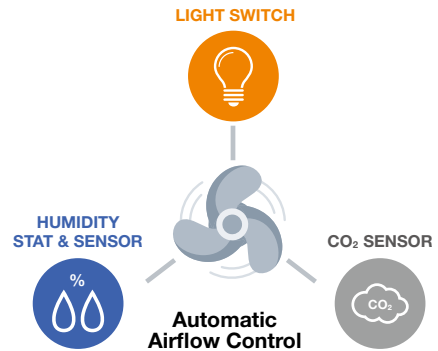
Variable airflow control

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 flexibly. Within the range between 25% and 100%, airflow can be adjusted by 1% increments to satisfactorily meet the designed airflow rate.



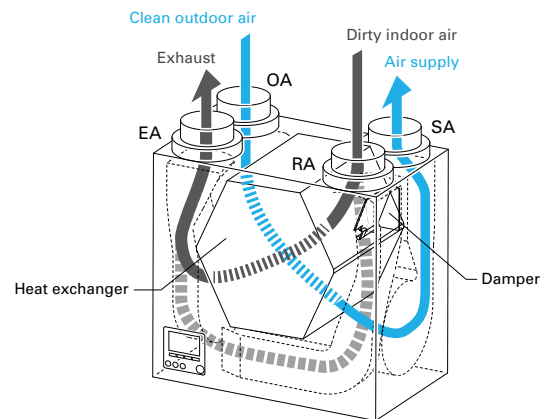
External airflow control

The airflow from the Lossnay unit can be altered using 0-10V signals from the controllers, such as the humidity stat and CO₂ sensor (field supply). The Lossnay unit is also connected to the light switch and can change to boost operation mode (input 220-240V). These devices are connected directly to the Lossnay unit, allowing automatic fan speed control according to bathroom occupation, CO₂ level, and humidity level.



Automatic bypass mode

It is possible to switch between "Lossnay ventilation (with heat exchange)" and "Bypass ventilation (without heat exchange)" either manually or automatically. When outside air is cooler than indoor air in summer, the unit directly draws in outside air, bypassing the heat exchanger.



* The figure shows VL-350CZPVU-L-E

Wide operating temperature range

The VL-CZPVU series can operate at temperatures down to -15°C . With a pre-heater, it can operate at temperatures down to -25°C .

* In areas where outdoor air falls below -20°C , an electric shutter (locally supplied) is required in the OA duct in addition to the pre-heater.

* The OA temperature must be higher than -15°C to use the pre-heater.

MELCloud for Lossnay

MELCloud enables fast, easy remote control and monitoring of Lossnay units. Wireless computer connectivity and an Internet-connected mobile or fixed terminal are all that are needed. MELCloud can also be used to control room air conditioners and Ecodan heat pumps simultaneously.

Key Control and Monitoring Features

1. Turn system on/off
2. Switching airflow & operating mode (Heat recovery / Bypass)
3. Confirming the status of the filter/core (Maintenance notification)



* MELCloud uses the MAC-567IF-E interface

VL-CZPVU SERIES

Specifications

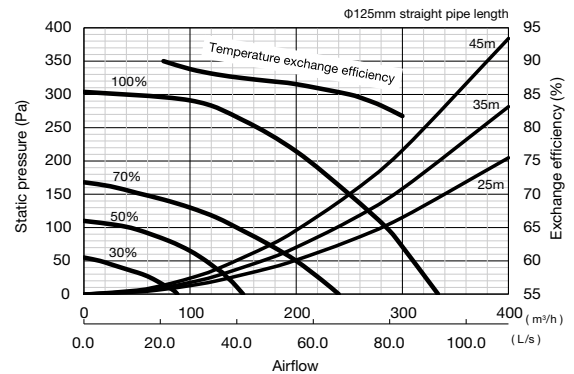
VL-250CZPVU-R/L-E

| | | | | |
|-------------------------------------|-----------------------------|-----------|-----------|-----------|
| Electrical Power Supply | 220-240V/50Hz, 220V/60Hz | | | |
| Ventilation Mode | Heat recovery 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 | (m³/h) | 250 | 175 | 125 |
| | (L/s) | 69 | 49 | 35 |
| External Static Pressure (Pa) | 150 | 74 | 38 | 14 |
| Temperature Exchange Efficiency (%) | 85 | 87 | 88 | 90 |
| Noise Level (dB) | 31 | 22 | 16 | 15 > |
| Energy Efficiency Class | A+ | | | |
| Weight (kg) | 26 | | | |
| Dimensions (mm) | (H) 565 x (W) 595 x (D) 356 | | | |

■ Attention

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 airflow, 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

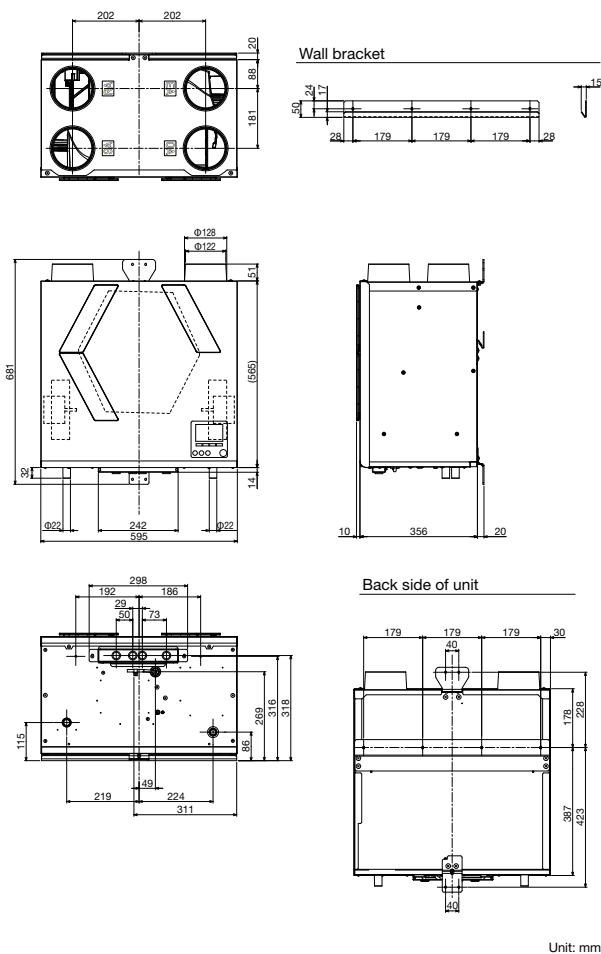


■ Attention

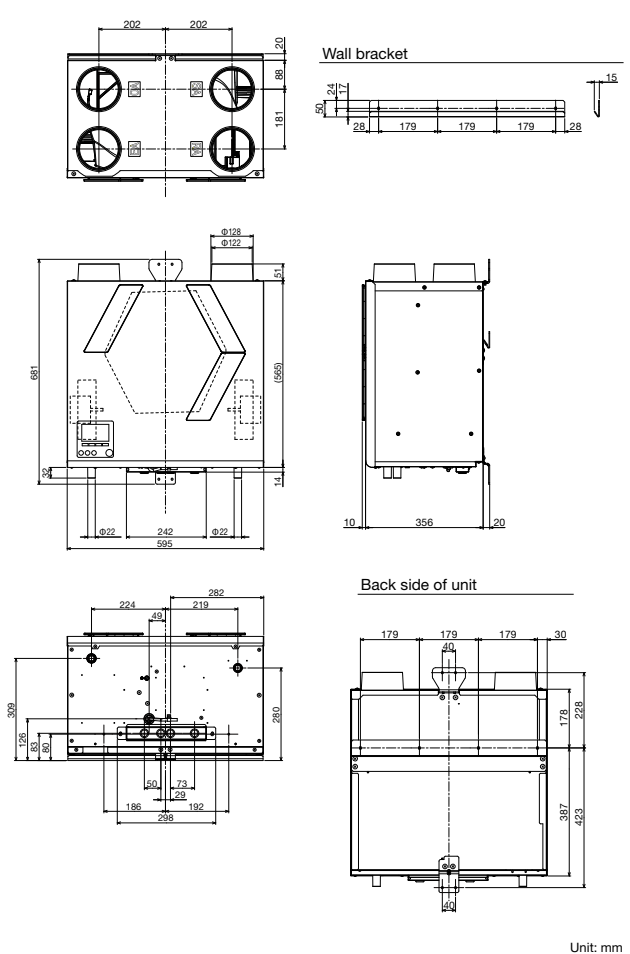
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Dimensions

VL-250CZPVU-R-E



VL-250CZPVU-L-E



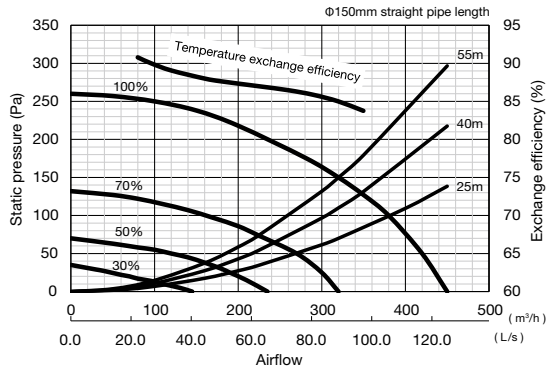
VL-350CZPVU-R/L-E

| | | | | |
|-------------------------------------|-----------------------------|-----------|-----------|-----------|
| Electrical Power Supply | 220-240V/50Hz, 220V/60Hz | | | |
| Ventilation Mode | Heat recovery 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 | (m³/h) | 320 | 224 | 160 |
| | (L/s) | 89 | 62 | 44 |
| External Static Pressure (Pa) | 150 | 74 | 38 | 14 |
| Temperature Exchange Efficiency (%) | 85 | 87 | 88 | 90 |
| Noise Level (dB) | 35 | 26 | 19 | 15> |
| Energy Efficiency Class | A+ | | | |
| Weight (kg) | 32 | | | |
| Dimensions (mm) | (H) 623 x (W) 658 x (D) 432 | | | |

Attention

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 airflow, 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

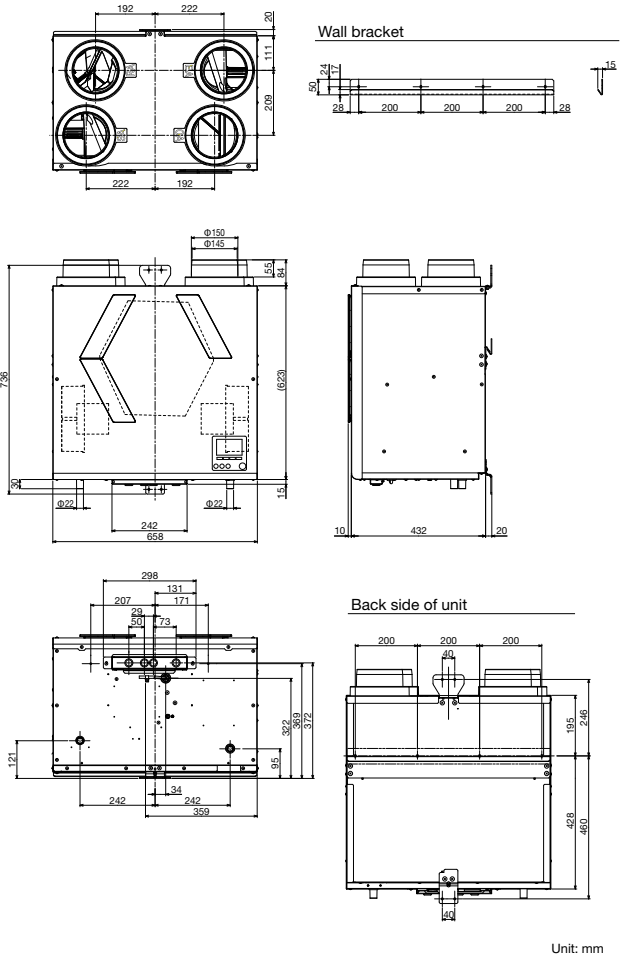


Attention

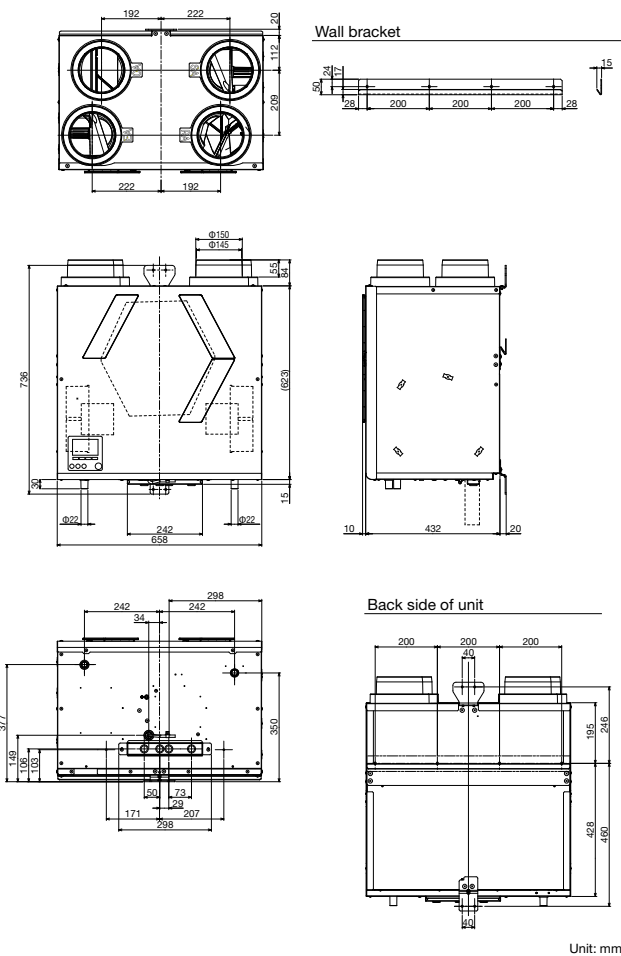
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Dimensions

VL-350CZPVU-R-E



VL-350CZPVU-L-E



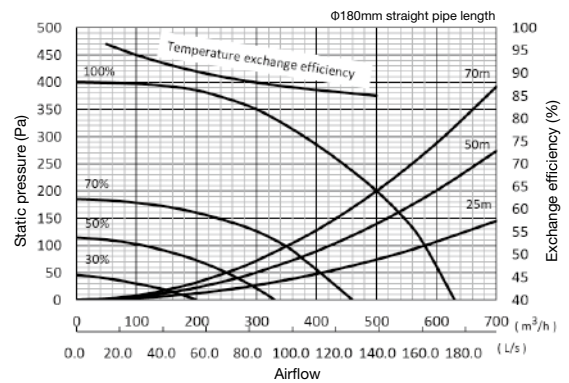
VL-500CZPVU-R/L-E

| | | | | |
|-------------------------------------|-----------------------------|-----------|-----------|-----------|
| Electrical Power Supply | 220-240V/50Hz, 220V/60Hz | | | |
| Ventilation Mode | Heat recovery mode | | | |
| Fan Speed | FS4 (100%) | FS3 (70%) | FS2 (50%) | FS1 (30%) |
| Running Current (A) | 1.73 | 0.77 | 0.40 | 0.19 |
| Input Power (W) | 275 | 104 | 49 | 21 |
| Airflow | (m³/h) | 500 | 350 | 250 |
| | (L/s) | 139 | 97 | 69 |
| External Static Pressure (Pa) | 200 | 98 | 50 | 18 |
| Temperature Exchange Efficiency (%) | 85 | 87 | 89 | 92 |
| Noise Level (dB) | 37 | 29 | 22 | 15> |
| Energy Efficiency Class | A+ | | | |
| Weight (kg) | 39 | | | |
| Dimensions (mm) | (H) 632 x (W) 725 x (D) 556 | | | |

■ Attention

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 airflow, 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

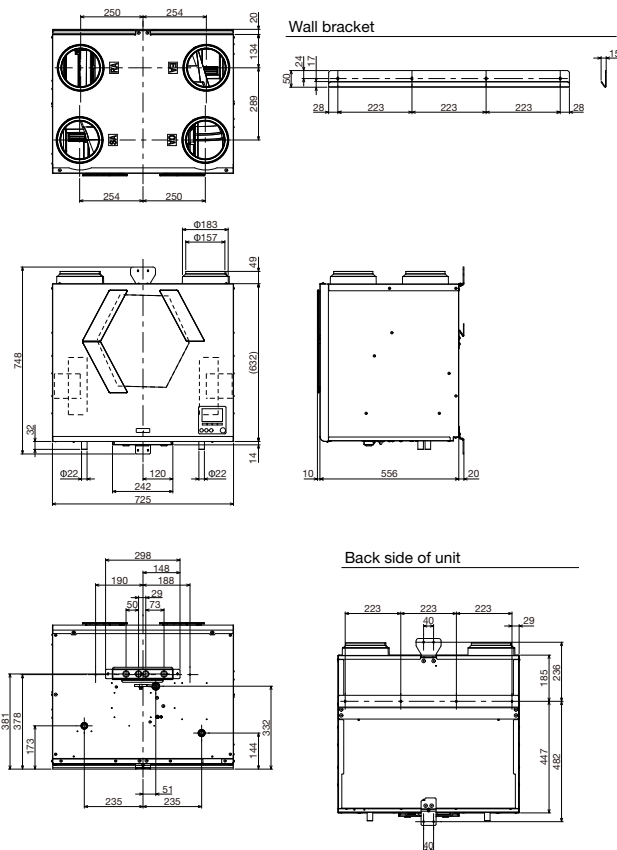


■ Attention

Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

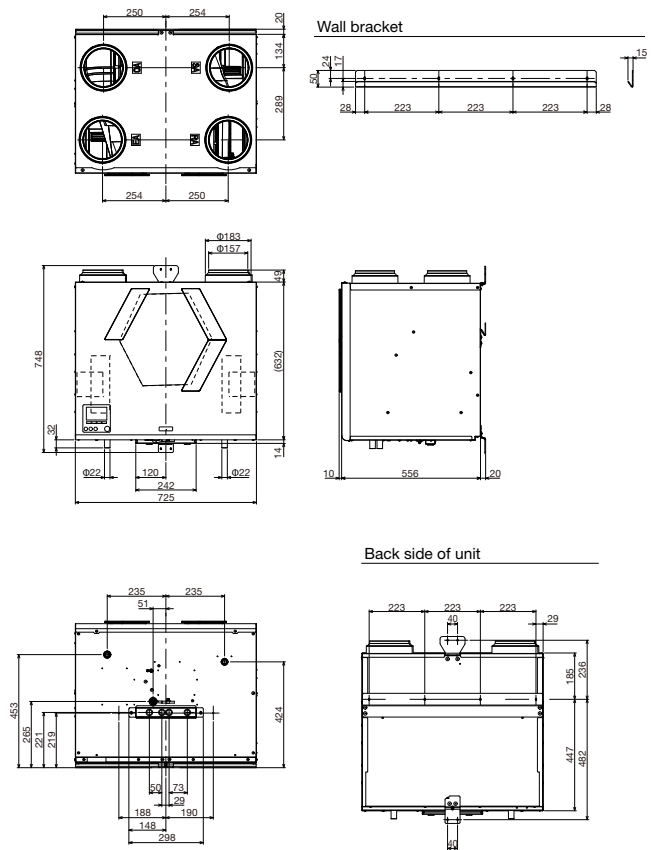
Dimensions

VL-500CZPVU-R-E









Unit: mm

VL-500CZPVU-L-E

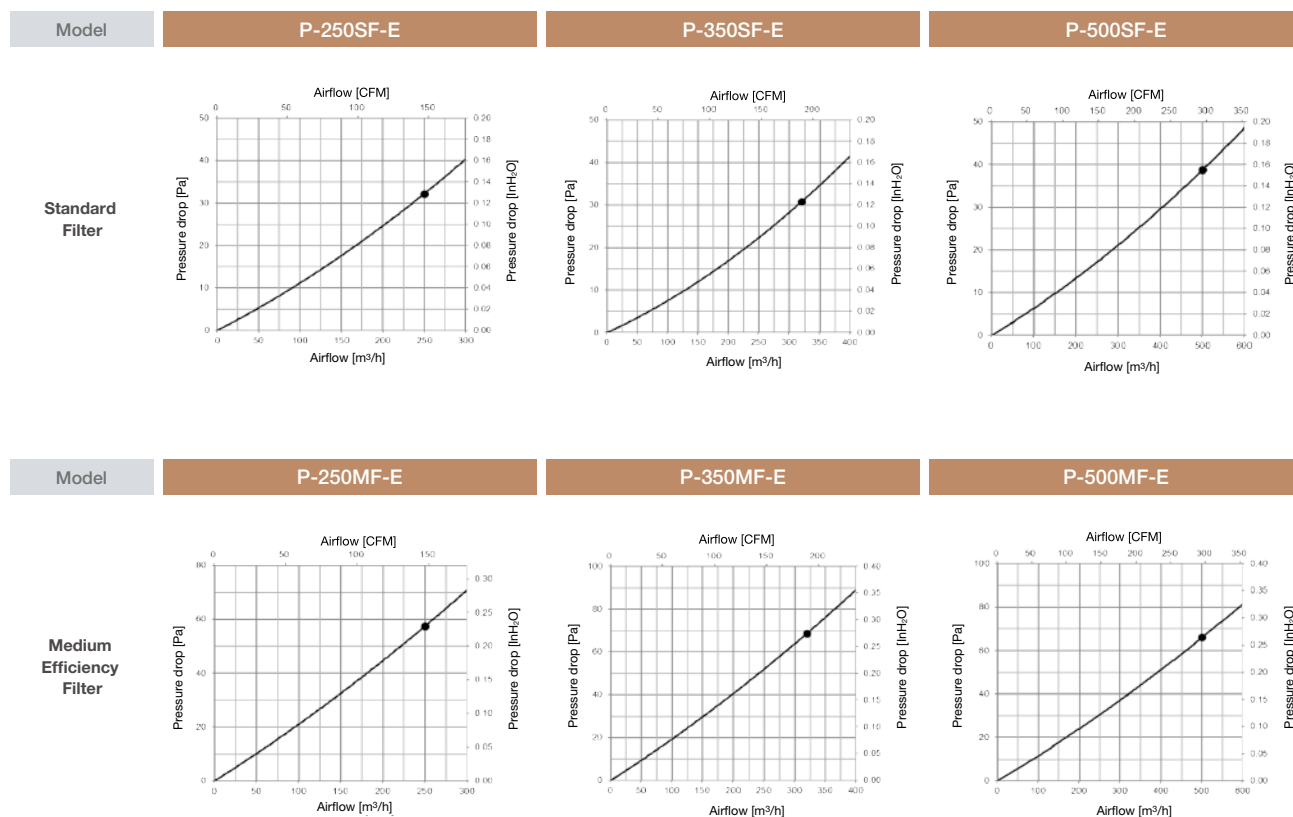


Unit: mm

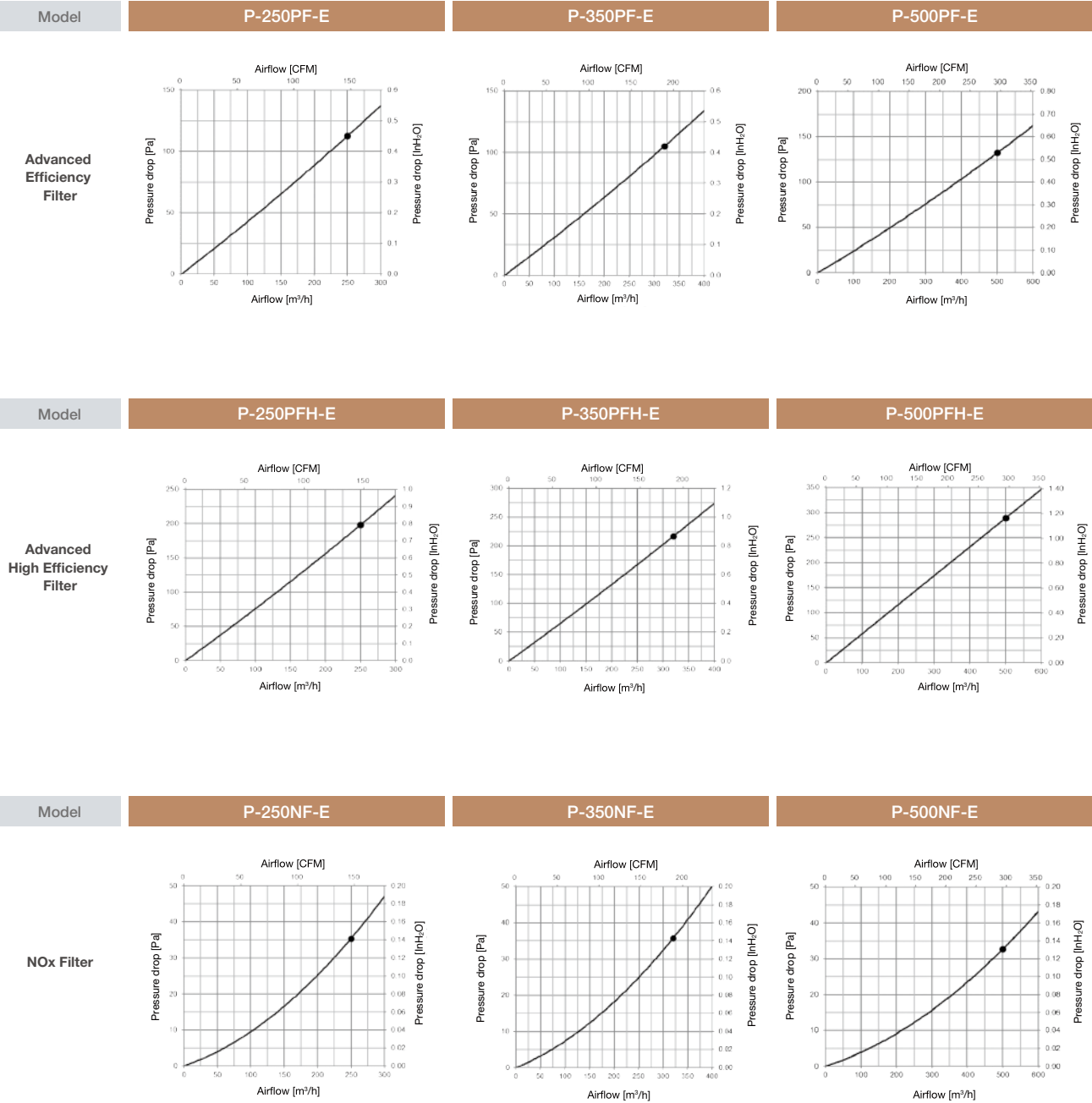
Filters

| Type | Replacement Filter | Standard Filter | Medium Efficiency Filter | Advanced Efficiency Filter | Advanced High Efficiency Filter | NOx Filter |
|----------------|---|---|---|--|---|---|
| |  |  |  |  |  |  |
| Model | P-250F-E P-350F-E P-500F-E | P-250SF-E P-350SF-E P-500SF-E | P-250MF-E P-350MF-E P-500MF-E | P-250PF-E P-350PF-E P-500PF-E | P-250PFH-E P-350PFH-E P-500PFH-E | P-250NF-E P-350NF-E P-500NF-E |
| Classification | EN779 (2012) G3 | G4 | M6 | M6 | ePM ₁ 55% | NO ₂ 90% |
| | ISO 16890 (2016) Coarse 55% | Coarse 90% | ePM ₁₀ 80% | ePM _{2.5} 50% | | |

Pressure loss characteristics



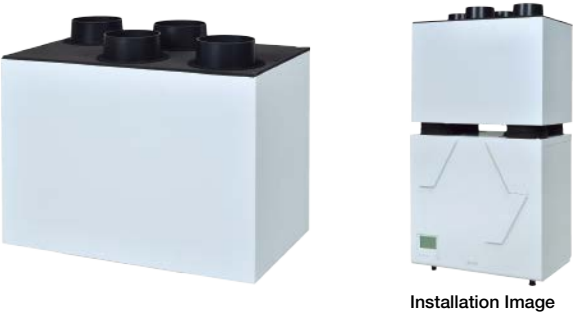
Pressure loss characteristics



Silencer Box

P-250/350/500SB-E

Noise level can be further decreased by using a
silencer box.



Installation Image

Model

P-250SB-E

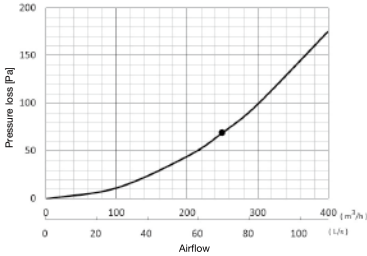
■ Attenuation of sound power level for center frequency

| Airflow (m³/h) | Static pressure (Pa) | Point | Attenuation of sound power level for center frequency Hz (dB) | | | | | | | |
|-------------------|----------------------------|-------------------|---|-----|-----|-----|------|------|------|------|
| | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 175 | 74 | Outlet (SA/EA) | 9 | 7 | 11 | 19 | 29 | 28 | 21 | 13 |

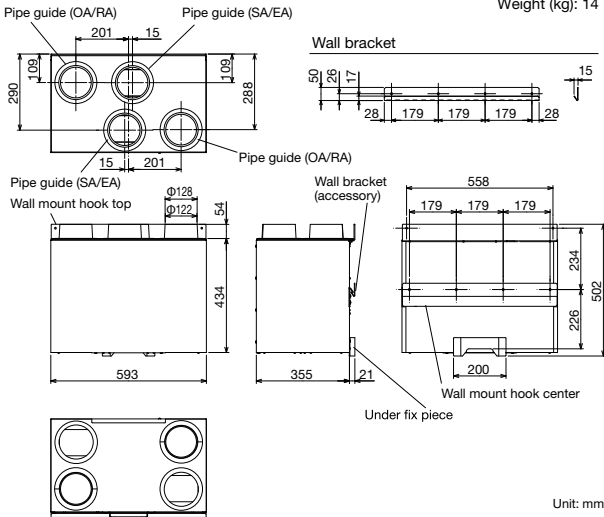
- Figures in the chart above are measured by Mitsubishi Electric.
- The silencer box is placed just after the outlet of the Lossnay unit as specified in the Installation Manual.
- When airflow differs, attenuation may also differ from the chart above.

■ Pressure loss curve

The curve on the right shows the
total pressure drop of the OA
and SA or RA and EA ducts in
the silencer box.



■ Dimensions



Model

P-350SB-E

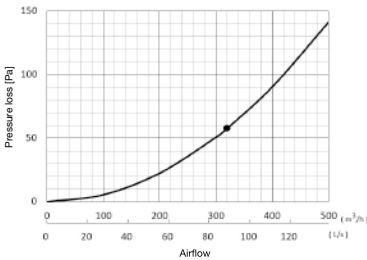
■ Attenuation of sound power level for center frequency

| Airflow (m³/h) | Static pressure (Pa) | Point | Attenuation of sound power level for center frequency Hz (dB) | | | | | | | |
|-------------------|----------------------------|-------------------|---|-----|-----|-----|------|------|------|------|
| | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 224 | 74 | Outlet (SA/EA) | 12 | 8 | 11 | 21 | 32 | 29 | 19 | 12 |

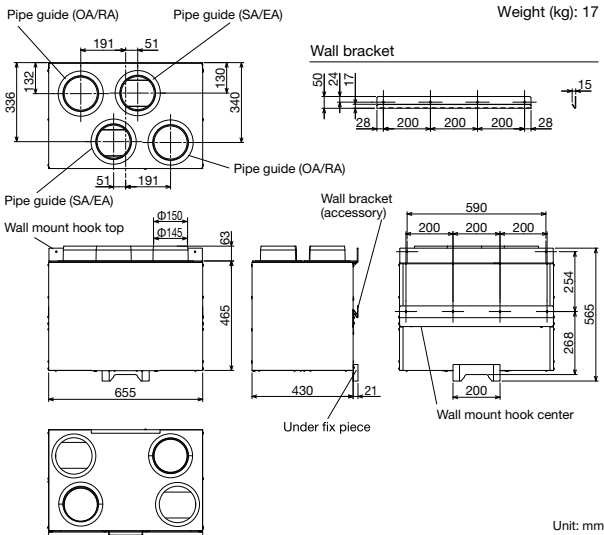
- Figures in the chart above are measured by Mitsubishi Electric.
- The silencer box is placed just after the outlet of the Lossnay unit as specified in the Installation Manual.
- When airflow differs, attenuation may also differ from the chart above.

■ Pressure loss curve

The curve on the right shows the
total pressure drop of the OA
and SA or RA and EA ducts in
the silencer box.



■ Dimensions



Model

P-500SB-E

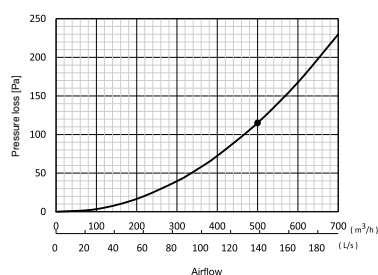
■ Attenuation of sound power level for center frequency

| Airflow (m³/h) | Static pressure (Pa) | Point | Attenuation of sound power level for center frequency Hz (dB) | | | | | | | |
|-------------------|----------------------------|-------------------|---|-----|------|------|------|------|------|------|
| | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 350 | 98 | Outlet (SA/EA) | 10.5 | 9.5 | 13.0 | 21.0 | 27.0 | 29.0 | 26.0 | 14.0 |

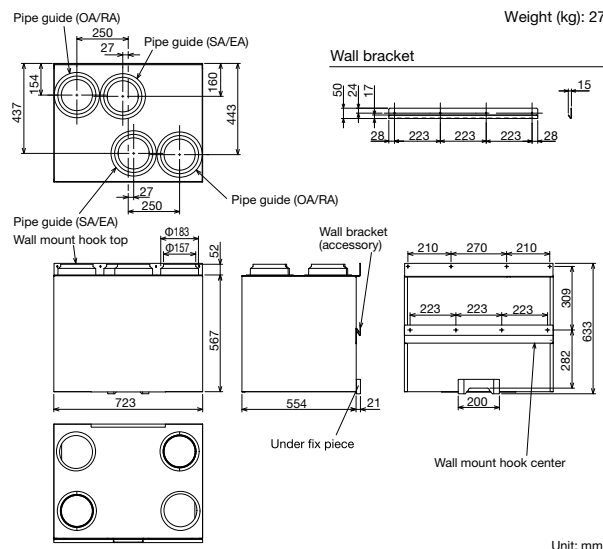
- Figures on the chart above are measured by Mitsubishi Electric.
- The silencer box is placed on the just after the outlet of the Lossnay unit as specified in the Installation Manual.
- When the airflow differs, the attenuation may be also different from the chart above.

■ Pressure loss curve

The curve on the right shows the total pressure drop of the OA and SA or RA and EA ducts in the silencer box.



■ Dimensions

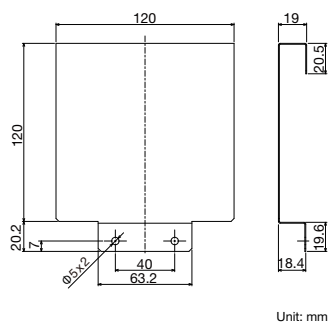


Remote Controller Cover

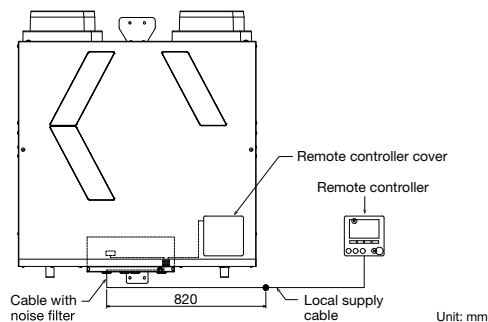
P-RCC-E

By attaching a Remote Controller Cover, the remote controller can be installed at a distance from the unit.

■ Dimensions



■ Configuration



Remote Controller Cover



Cable with Noise Filter
(Cable length outside the product:
Approximately 820 mm)

VL-50(E)S₂-E, VL-50SR₂-E VL-100(E)U₅-E

Wall mounted models. Particularly suitable for houses and small offices.



VL-50(E)S₂-E
VL-50SR₂-E



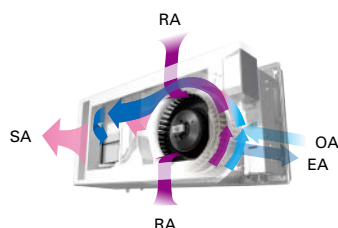
VL-100(E)U₅-E

Decentralized ventilation: VL-50(E)S₂-E, VL-50SR₂-E and VL-100(E)U₅-E

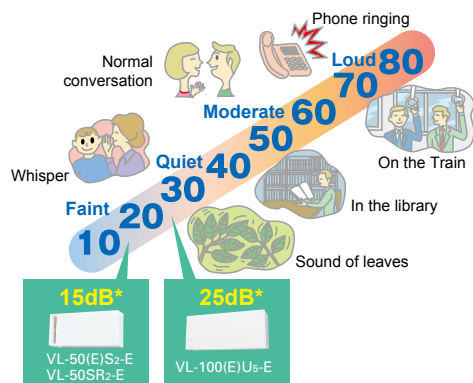
Product advantages

Air supplied and Exhausted Simultaneously

Air is supplied and exhausted simultaneously while transferring the heat.



Low noise levels are ideal for bedrooms and children's rooms.



*Condition: 50Hz, 230V, low fan speed

Energy Efficient

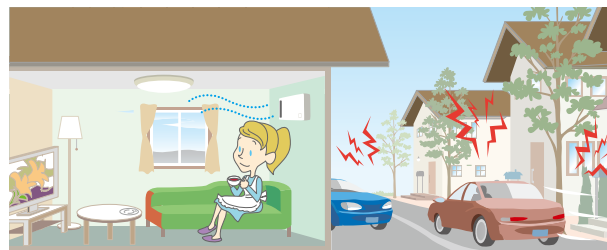
- Total heat exchange minimizes heat loss.
- Achieve over 80%* temperature efficiency.

*VL-100(E)U₅-E at low fan speed in 230V 50Hz

*VL-50(E)S₂-E at low fan speed in 230V 50Hz

Sound Insulation

A sound insulation effect reduces the level of noise generated outside.



| Sound Insulation Effect | Sound Source Side Average sound pressure dB | Sound Receiving Side Average sound pressure dB | Difference |
|-------------------------|--|---|------------|
| | 103.4 | 63.2 | 40.2 |

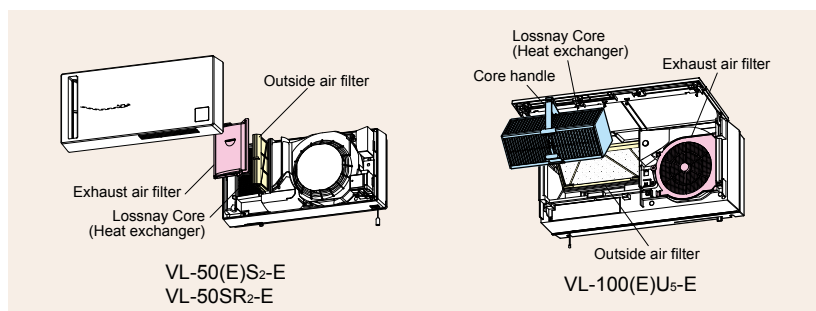
*Tested based on VL-08S₂-AE

*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

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)S₂-E and VL-50SR₂-E

Both horizontal and vertical installations are possible to fit various types of rooms.



VL-50(E)S₂-E, VL-50SR₂-E, VL-100(E)U₅-E

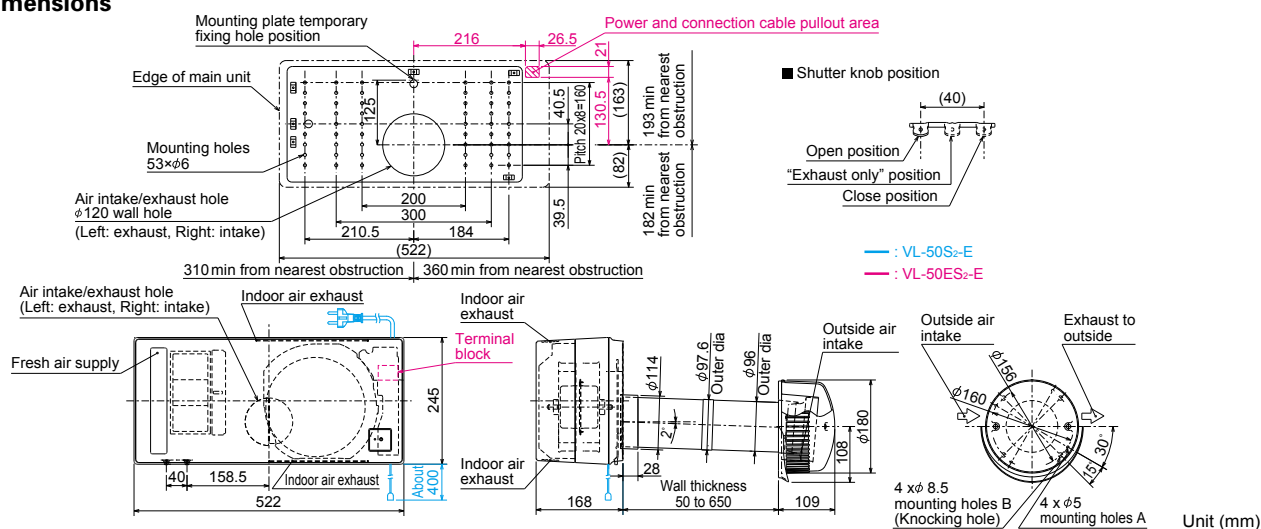
Specifications

Model: VL-50S₂-E (Pull-Switch Model) and VL-50ES₂-E (Wall-Switch Model)

| Model | VL-50(E)S ₂ -E | | | | | | | |
|-------------------------------------|---------------------------|-----|-----------|-----|-----------|------|-----------|------|
| Electrical power supply | 220V/50Hz | | 230V/50Hz | | 240V/50Hz | | 220V/60Hz | |
| Fan speed | High | Low | High | Low | High | Low | High | Low |
| Airflow (m ³ /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 | C | | | | | | | |

*Figures in the chart were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position.

Dimensions

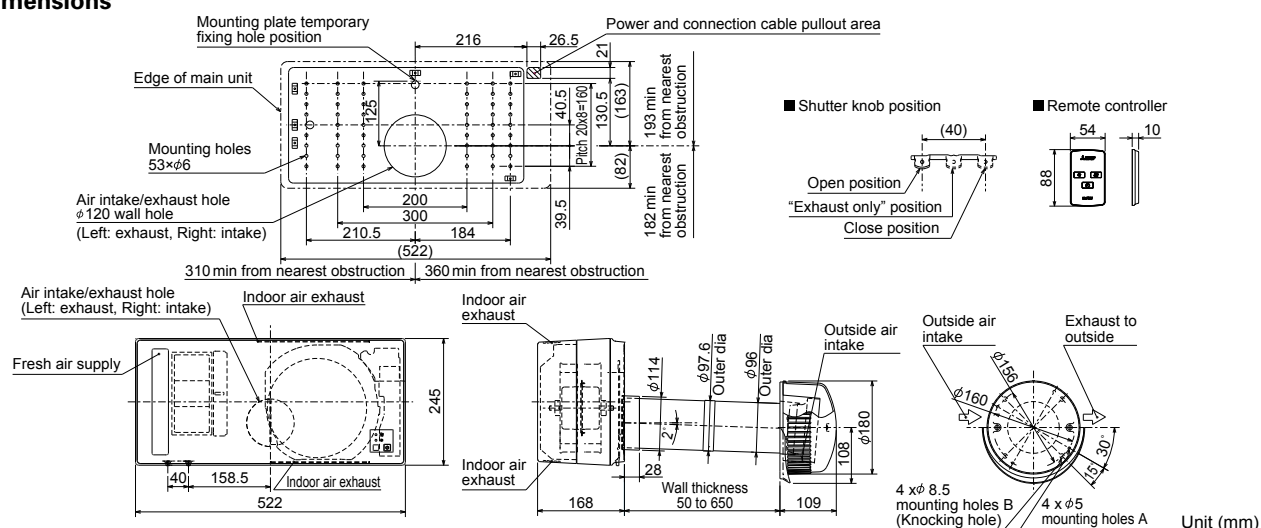


Model: VL-50SR₂-E (Remote Controller Model)

| Model | VL-50SR ₂ -E | | | | | | | |
|-------------------------------------|-------------------------|-----|-----------|-----|-----------|------|-----------|------|
| Electrical power supply | 220V/50Hz | | 230V/50Hz | | 240V/50Hz | | 220V/60Hz | |
| Fan speed | High | Low | High | Low | High | Low | High | Low |
| Airflow (m ³ /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 | C | | | | | | | |

*Figures in the chart were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position.

Dimensions

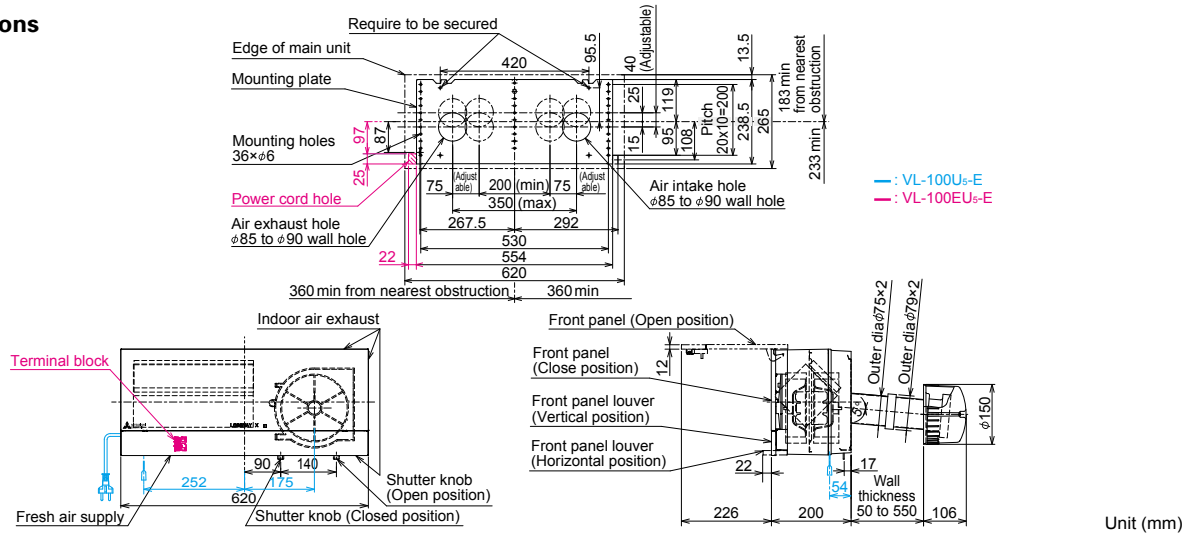


Model: VL-100U₅-E (Pull-Switch Model) and VL-100EU₅-E (Wall-Switch Model)

| Model | VL-100(E)U ₅ -E | | | | | | | |
|-------------------------------------|----------------------------|-----|-----------|-----|-----------|-----|-----------|-----|
| Electrical power supply | 220V/50Hz | | 230V/50Hz | | 240V/50Hz | | 220V/60Hz | |
| Fan speed | High | Low | High | Low | High | Low | High | Low |
| Airflow (m ³ /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 | B | | | | | | | |

*Figures in the chart were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position.

Dimensions



Optional Parts

Optional Parts for VL-50(E)S₂-E and VL-50SR₂-E

Filter, Extension Pipe and Stainless Hood

| Type | Replacement Filter | High Efficiency Filter | Extension Pipe | Joint | Stainless Hood |
|-----------------------------|--------------------|------------------------|--|--------------------------|------------------------|
| Design | | | | | |
| Model | P-50F2-E | P-50HF2-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 (EN779:2012) | G3 | - | - | - | - |
| Classification (ISO16890) | Coarse 35% | ePM ₁₀ 75% | - | - | - |

Optional Parts for VL-100(E)U₅-E

Filter and Extension Pipe

| Type | Replacement Filter | High Efficiency Filter | Extension Pipe | Joint |
|-----------------------------|--------------------|------------------------|--|---|
| Design | | | | |
| Model | P-100F5-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 (EN779:2012) | G3 | M6 | - | - |
| Classification (ISO16890) | Coarse 35% | ePM ₁₀ 70% | - | - |

List of optional parts

| Optional Parts | | Lossnay | | | | | | | | | | | | | | | | | |
|----------------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|---------------|---------------|---------------|-----------|------------|------------|-------------|-------------|-------------|--------------|
| | | 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-150RVXT-E | LGH-200RVXT-E | LGH-250RVXT-E | GUF-50RD4 | GUF-50RDH4 | GUF-100RD4 | GUF-100RDH4 | LGH-50RVS-E | LGH-80RVS-E | LGH-100RVS-E |
| Lossnay Remote Controller | PZ-62DR-EA/EB | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | ● | ● | ● |
| | PZ-43SMF-E | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | ● | ● | ● |
| Standard Filter | PZ-15RF ₈ -E | ● | | | | | | | | | | | | | | | | | |
| | PZ-25RF ₈ -E | | ● | | | | | | | | | | | | | | | | |
| | PZ-35RF ₈ -E | | | ● | | | | | | | | | | | | | | | |
| | PZ-50RF ₈ -E | | | | ● | | | | | | | | ● | ● | | | | | |
| | PZ-65RF ₈ -E | | | | | ● | | | | | | | | | | | | | |
| | PZ-80RF ₈ -E | | | | | | ● | | ● | | | | | | | | | | |
| | PZ-100RF ₈ -E | | | | | | | ● | | | | | | | ● | ● | | | |
| | PZ-150RTF-E | | | | | | | | | ● | | | | | | | | | |
| | PZ-250RTF-E | | | | | | | | | | ● | ● | | | | | | | |
| | PZ-S50RF-E | | | | | | | | | | | | | | | | ● | | |
| | PZ-S80RF-E | | | | | | | | | | | | | | | | | ● | |
| | PZ-S100RF-E | | | | | | | | | | | | | | | | | | ● |
| High-efficiency Filters | PZ-15RFM-E | ● | | | | | | | | | | | | | | | | | |
| | PZ-25RFM-E | | ● | | | | | | | | | | | | | | | | |
| | PZ-35RFM-E | | | ● | | | | | | | | | | | | | | | |
| | PZ-50RFM-E | | | | ● | | | | | | | | ● | ● | | | | | |
| | PZ-65RFM-E | | | | | ● | | | | | | | | | | | | | |
| | PZ-80RFM-E | | | | | | ● | | ● | | | | | | | | | | |
| | PZ-100RFM-E | | | | | | | ● | | | | | | | ● | ● | | | |
| | PZ-S50RFM-E | | | | | | | | | | | | | | | | ● | | |
| | PZ-S80RFM-E | | | | | | | | | | | | | | | | | ● | |
| | PZ-S100RFM-E | | | | | | | | | | | | | | | | | | ● |
| Advanced High-efficiency Filters | PZ-15RFP ₂ -E | ● | | | | | | | | | | | | | | | | | |
| | PZ-25RFP ₂ -E | | ● | | | | | | | | | | | | | | | | |
| | PZ-35RFP ₂ -E | | | ● | | | | | | | | | | | | | | | |
| | PZ-50RFP ₂ -E | | | | ● | | | | | | | | ● | ● | | | | | |
| | PZ-65RFP ₂ -E | | | | | ● | | | | | | | | | | | | | |
| | PZ-80RFP ₂ -E | | | | | | ● | | ● | | | | | | | | | | |
| | PZ-100RFP ₂ -E | | | | | | | ● | | | ● | | | | ● | ● | | | |
| | PZ-M6RTFM-E | | | | | | | | | ● | ● | ● | | | | | | | |
| | PZ-F8RTFM-E | | | | | | | | | ● | ● | ● | | | | | | | |
| | PZ-S50RFH-E | | | | | | | | | | | | | | | | ● | | |
| | PZ-S80RFH-E | | | | | | | | | | | | | | | | | ● | |
| | PZ-S100RFH-E | | | | | | | | | | | | | | | | | | ● |
| Duct Silencer | PZ-100SS-E | ● | | | | | | | | | | | | | | | | | |
| | PZ-150SS-E | | ● | ● | | | | | | | | | | | | | | | |
| | PZ-200SS-E | | | | ● | ● | | | | | | | ● | ● | | | ● | | |
| | PZ-250SS-E | | | | | | ● | ● | ● | | | | | | ● | ● | | ● | ● |
| CO ₂ Sensor | PZ-70CSW-E | | | | | | | | | | | | | | | | ● | ● | ● |
| | PZ-70CSB-E | | | | | | | | | | | | | | | | ● | ● | ● |

Note: Please refer to each product page for required number of pieces/sets.

List of optional parts for the VL-CZPVU Series

| Optional Parts | | | | | Lossnay | | | |
|-------------------------|---------------------------------|-----------------------------|---------------------------|------------|-------------------|-------------------|-------------------|--|
| Filter | Type | Classification (EN779:2012) | Classification (ISO16890) | Model | VL-250CZPVU-R/L-E | VL-350CZPVU-R/L-E | VL-500CZPVU-R/L-E | |
| | Replacement Filter | G3 | Coarse 55% | P-250F-E | ● | | | |
| | | | | P-350F-E | | ● | | |
| | | | | P-500F-E | | | ● | |
| | Standard Filter | G4 | Coarse 90% | P-250SF-E | ● | | | |
| | | | | P-350SF-E | | ● | | |
| | | | | P-500SF-E | | | ● | |
| | Medium Efficiency Filter | M6 | ePM ₁₀ 80% | P-250MF-E | ● | | | |
| | | | | P-350MF-E | | ● | | |
| | | | | P-500MF-E | | | ● | |
| | Advanced Efficiency Filter | M6 | ePM _{2.5} 50% | P-250PF-E | ● | | | |
| | | | | P-350PF-E | | ● | | |
| | | | | P-500PF-E | | | ● | |
| | Advanced High Efficiency Filter | | ePM ₁ 55% | P-250PFH-E | ● | | | |
| | | | | P-350PFH-E | | ● | | |
| | | | | P-500PFH-E | | | ● | |
| | NoxFiter | | NO ₂ 90% | P-250NF-E | ● | | | |
| | | | | P-350NF-E | | ● | | |
| | | | | P-500NF-E | | | ● | |
| Silencer Box | | | | P-250SB-E | ● | | | |
| | | | | P-350SB-E | | ● | | |
| | | | | P-500SB-E | | | ● | |
| Remote Controller Cover | | | | P-RCC-E | ● | ● | ● | |

List of optional parts for the VL-50/100 Series

| Optional Parts | | | | | Lossnay | | | | | |
|----------------|------------------------|-----------------------------|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|---|
| Filter | Type | Classification (EN779:2012) | Classification (ISO16890) | Model | VL-50S ₂ -E | VL-50ES ₂ -E | VL-50SR ₂ -E | VL-100U ₅ -E | VL-100EU ₅ -E | |
| | Replacement Filter | G3 | Coarse 35% | P-50F ₂ -E | ● | ● | ● | | | |
| | | | | P-100F ₅ -E | | | | ● | ● | |
| | High Efficiency Filter | | M6 | ePM ₁₀ 75% | P-50HF ₂ -E | ● | ● | ● | | |
| | | | | ePM ₁₀ 70% | P-100HF ₅ -E | | | | ● | ● |
| Extension Pipe | | | | P-50P-E | ● | ● | ● | | | |
| | | | | P-100P-E | | | | ● | ● | |
| Joint | | | | P-50PJ-E | ● | ● | ● | | | |
| | | | | P-100PJ-E | | | | ● | ● | |
| Stainless Hood | | | | P-50VSQ ₅ -E | ● | ● | ● | | | |