

SPLIT-TYPE AIR CONDITIONERS

NOTICE

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)

CAUTION

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.

WARNING

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

**Full Product Line Catalogue
2023**



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 2050

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

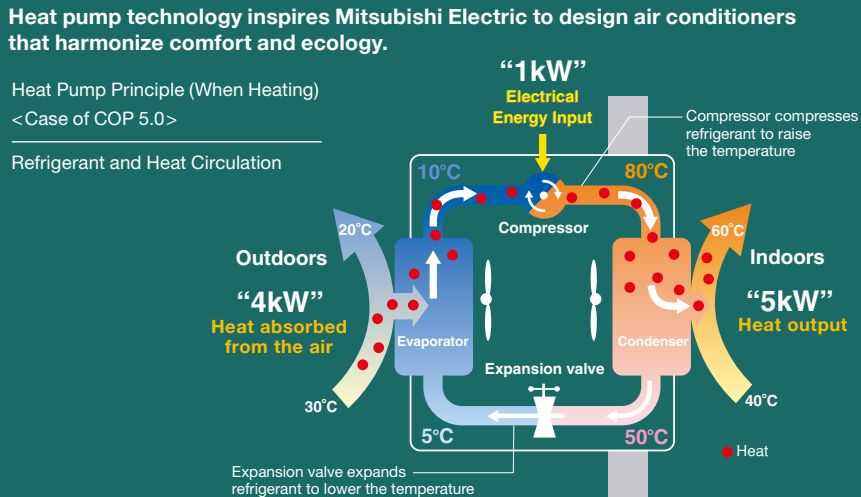
- Innovation

- Nurturing Human Resources

- Understanding Needs

- Co-create and Disseminate New Values

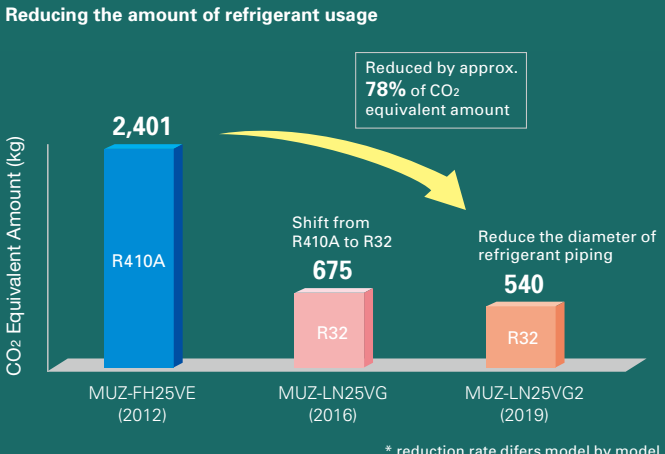
- Live in Harmony with the Region



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.



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.*

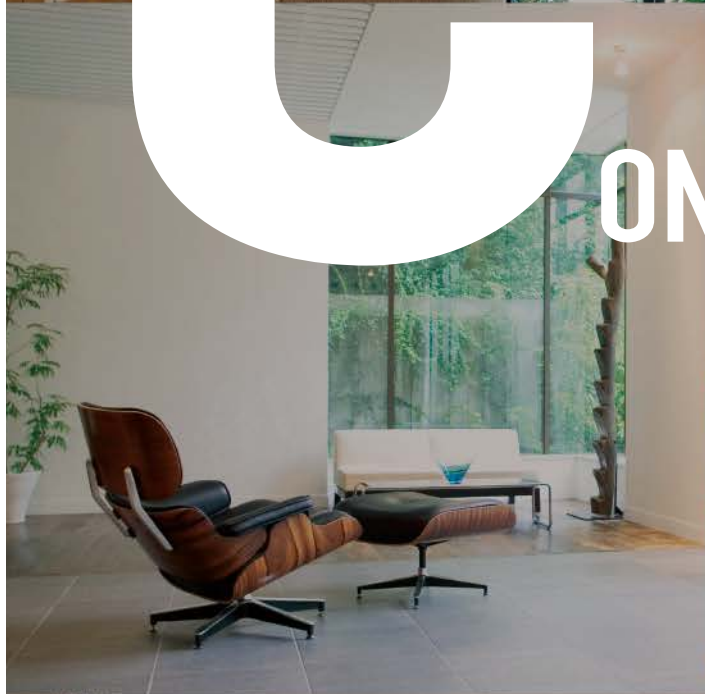
*WEEE and RoHS directive: The Waste Electrical and Electronic Equipment (WEEE) Directive is a recycling directive for this type for equipment, while the Restrictions of Hazardous Substances (RoHS) Directive is an EU directive restricting the use of ten specified substances in electronic and electrical 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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AY Series

Elegant and Sophisticated Matt



New releases in 2023

M SERIES



MSZ-AY25/35/42/50VGK(P)
R32
P.19



MLZ-KY20VG
R32
P.53

LOSSNAY SERIES



**LGH-15/25/35/50/65/80/
100/160/200RVX3-E**
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S SERIES



SFZ-M
R32
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ATW SERIES



PUZ-SHWM60/80/100/120/140
PUZ-SWM60/80/100/120/140
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EHWT17D-MHEDW
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SUZ-SWM30/40/60VA
SUZ-SHWM30/40VAH
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SUZ-SWM80/100VA(H)
SUZ-SHWM60VAH
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PXZ-4F75VG
P.184



PXZ-5F85VG
P.184

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-AY series  R32 R410A *3					SINGLE H	SINGLE H	SINGLE H	SINGLE H			19
	MSZ-AP series  R32 R410A *1 MSZ-AP60/71VG(K) MSZ-AP15/20VG(K)	SINGLE		SINGLE						SINGLE	SINGLE	23
	MSZ-E Series  R32 R410A *1		WSB Multi connection only		WSB Multi connection only	WSB SINGLE H	WSB SINGLE H	WSB SINGLE	WSB SINGLE			29
	MSZ-BT Series  R32			SINGLE		SINGLE	SINGLE		SINGLE			31
	MSZ-HR Series  R32 MSZ-HR25/35/42/50VF(K) MSZ-HR60/71VF(K)					SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	33
	MSZ-DW Series  R32					SINGLE	SINGLE		SINGLE			35
	MSY-TP Series  R32						SINGLE		SINGLE			37
	MSZ-F Series  R410A					SINGLE	SINGLE		SINGLE			39
	MSZ-S Series  R410A MSZ-SF15/20VA	Multi connection only		Multi connection only								41
	 MSZ-SF25/35/42/50VE3					SINGLE H	SINGLE H	SINGLE H	SINGLE H			41
	MSZ-G Series  R410A									SINGLE	SINGLE	41
	MSZ-W Series  R410A					SINGLE	SINGLE					45
	MSZ-D Series  R410A					SINGLE	SINGLE					47
	MSZ-H Series  R410A MSZ-HJ25/35/50 MSZ-HJ60/71					SINGLE	SINGLE		SINGLE	SINGLE	SINGLE	49
Compact floor	MFZ Series  R32					SINGLE	SINGLE		SINGLE	SINGLE		51
1-way cassette	MLZ Series  R32 MLZ-KP25/35/50VF MLZ-KY20VG			Multi connection only		SINGLE	SINGLE		SINGLE			53




*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 	Multi connection only	SINGLE	SINGLE	SINGLE	SINGLE	TWIN	TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TRIPLE QUADRUPLE	63
	SEZ Series R32 R410A 		* SINGLE	* SINGLE	* SINGLE	* SINGLE	SINGLE TWIN	TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TRIPLE QUADRUPLE	
Concealed floor standing	SFZ Series R32 		SINGLE	SINGLE	SINGLE	SINGLE					74

* 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	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	88
	PEAD Series R32 	SINGLE	SINGLE	SINGLE	SINGLE TWIN *	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	
Ceiling-concealed	PEA Series R32 								SINGLE	SINGLE	103
	PKA Series R32 	* SINGLE	* SINGLE	* SINGLE	* SINGLE TWIN *	* SINGLE TWIN	TWIN	TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TRIPLE QUADRUPLE	106
Ceiling-suspended	PCA-KA Series R32 	SINGLE	SINGLE	SINGLE	SINGLE TWIN *	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	111
for Professional Kitchen	PCA-HA Series* R32 				SINGLE *			* TWIN		* TRIPLE	116
Floor-standing	PSA Series R32 				SINGLE	SINGLE	SINGLE	SINGLE TWIN	TWIN	TWIN TRIPLE	119

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	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	88
	PEAD Series R410A 	SINGLE	SINGLE	SINGLE	SINGLE TWIN *	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	
Ceiling-concealed	PEA Series R410A 								SINGLE	SINGLE	103
	PKA Series R410A 	* SINGLE	* SINGLE	* SINGLE	* SINGLE TWIN *	* SINGLE TWIN	TWIN	TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TRIPLE QUADRUPLE	106
Ceiling-suspended	PCA-KA Series R410A 	SINGLE	SINGLE	SINGLE	SINGLE TWIN *	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	111
for Professional Kitchen	PCA-HA Series* R410A 				SINGLE *			* TWIN		* TRIPLE	116
Floor-standing	PSA Series R410A 				SINGLE *	SINGLE	SINGLE	SINGLE TWIN	TWIN	TWIN TRIPLE	119

* Power Inverter Models only

LINE-UP

MXZ SERIES INVERTER Models

Model Name	Capacity Class	Page
up to 2 indoor units MXZ-2F33VF4 R32	3.3kW <1-phase>	127
up to 2 indoor units MXZ-2F42VF4 R32	4.2kW <1-phase>	127
up to 2 indoor units MXZ-2F53VF(H)4 R32	5.3kW <1-phase>	127
up to 3 indoor units MXZ-3F54VF4 R32	5.4kW <1-phase>	127
up to 3 indoor units MXZ-3F68VF4 R32	6.8kW <1-phase>	127
up to 4 indoor units MXZ-4F72VF3 R32	7.2kW <1-phase>	127
up to 4 indoor units MXZ-4F80VF4 R32	8.0kW <1-phase>	127
up to 4 indoor units MXZ-4F83VF2 R32	8.3kW <1-phase>	127
up to 5 indoor units MXZ-5F102VF2 R32	10.2kW <1-phase>	127
up to 6 indoor units MXZ-6F120VF2 R32	12.0kW <1-phase>	127
up to 2 indoor units MXZ-2HA40VF2 R32	4.0kW <1-phase>	131
up to 2 indoor units MXZ-2HA50VF2 R32	5.0kW <1-phase>	131
up to 3 indoor units MXZ-3HA50VF2 R32	5.0kW <1-phase>	131

Model Name	Capacity Class	Page
up to 2 indoor units MXZ-2D33VA R410A	3.3kW <1-phase>	129
up to 2 indoor units MXZ-2D42VA2 R410A	4.2kW <1-phase>	129
up to 2 indoor units MXZ-2D53VA (H)2 R410A	5.3kW <1-phase>	129
up to 3 indoor units MXZ-3E54VA R410A	5.4kW <1-phase>	129
up to 3 indoor units MXZ-3E68VA R410A	6.8kW <1-phase>	129
up to 4 indoor units MXZ-4E72VA R410A	7.2kW <1-phase>	129
up to 4 indoor units MXZ-4E83VA R410A	8.3kW <1-phase>	129
up to 5 indoor units MXZ-5E102VA R410A	10.2kW <1-phase>	129
up to 6 indoor units MXZ-6D122VA2 R410A	12.2kW <1-phase>	129
up to 2 indoor units MXZ-2DM40VA R410A	4.0kW <1-phase>	133
up to 3 indoor units MXZ-3DM50VA R410A	5.0kW <1-phase>	133

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	✓	✓	✓				135
PUMY-P R410A	✓	✓	✓	✓	✓	✓	137

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					147
	MSZ-LN VGHZ Series R32 R410A	SINGLE H	SINGLE H	SINGLE H					151
	MSZ-FT VGHZ Series R32	SINGLE H	SINGLE H	SINGLE H					153
	MSZ-FH VEHZ Series R410A	SINGLE H	SINGLE H	SINGLE H					155
Compact floor	MFZ-KW Series R32	SINGLE H	SINGLE H	SINGLE H		SINGLE H			157
ZUBADAN	4-way cassette PLA Series R32 R410A						SINGLE TWIN	SINGLE TWIN	160
	Ceiling-concealed PEAD Series R32 R410A						SINGLE TWIN		162
	Wall-mounted PKA Series R32 R410A						SINGLE TWIN		163
Multi split	MXZ-F VFHZ2 Series MXZ-E VAHZ Series R32 R410A				2PORT H	4PORT H			166

* 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)*
		 PUZ-HWM140
	 PUZ-WM50	 PUZ-WM60/85/112
Split type	Small capacity (Under 5kW)*	Medium capacity (6.0kW–14kW)*
		 PUD-SHWM60/80/100/120/140
		 PUZ-SWM60/80/100/120
	 SUZ-SWM30/40/60VA SUZ-SHWM30/40VAH	 SUZ-SWM80/100VA(H) SUZ-SHWM60VAH

*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-SW75/100	 PUHZ-SW120
		 PUHZ-SW160/200

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

Other ATW-related system	Mr.SLIM+	PUMY + ecodan	PXZ + ecodan	ecodan geodan	ecodan hydrodan
					
	 PUHZ-FRP71	 PUMY-P112/125/140	 PXZ-4F75VG  PXZ-5F85VG	 EHGT17D-YM9ED	 EHWT17D-MHEDW

LOSSNAY SERIES

Centralized Ventilation				Decentralized Ventilation	
Ceiling Concealed Type				Vertical Type	Wall Mounted Type
 LGH-RVX3 Series	 LGH-RVXT Series	 LGH-RVS	 GUF Series	 VL-CZPVU Series	 VL-100(E)U<-E  VL-50(E)S<-E VL-50SR<-E













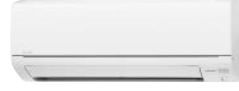



M

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-AY SERIES R32 R410A *2  25/35 25-50 SEER A+++ SCOP A+++ MXZ connection	MSZ-AP SERIES R32 R410A *1 MSZ-AP60/71VG(K)  MSZ-AP15/20VG(K) 20 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) SEER A+++ SCOP A+++ MXZ connection
MSZ-DW SERIES R32  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 SEER A+++ SCOP A+++ MXZ connection	MSZ-G SERIES R410A  SEER A+++ SCOP A+++ MXZ connection	MSZ-W SERIES R410A  SEER A+++ SCOP A+++
MSZ-DM SERIES R410A  SEER A+++ SCOP A+++ MXZ connection	MSZ-HJ 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  SEER A+++ SCOP A+++ MXZ connection
Cassette Units		
MLZ SERIES R32  MLZ-KP25/35/50VF MLZ-KY20VG MXZ connection	SEER A SCOP A Energy Rank MXZ connection Compatible for connection to MXZ Series system R32 R32 Refrigerant R410A R410A Refrigerant	

*1 R410A is for MXZ and PUMY connection.
*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-AY25/35/42/50VGH MUZ-EF25/35VGH MUZ-SF25/35/42/50VEH  MUZ-LN25/35VG	Hyper Heating MUZ-RW25/35/50VGHZ MUZ-LN25/35/50VGHZ MUZ-FT25/35/50VGHZ MUZ-FH25/35/50VEHZ MUZ-KW25/35/50/60VGHZ  MUZ-LN50VG2	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.

MSZ-L SERIES

R32
Single / MXZ, PUMY
R410A
PUMY

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



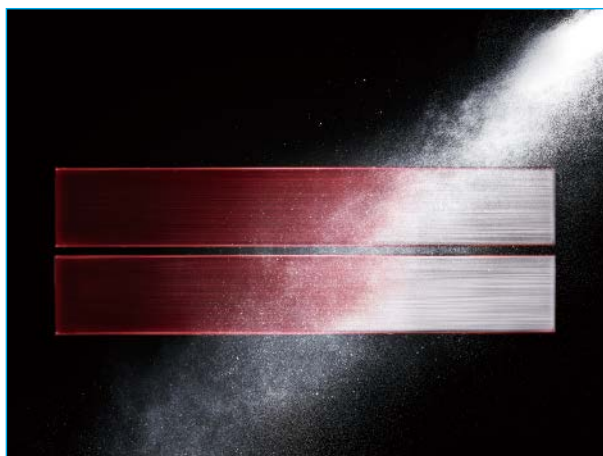
**GOOD DESIGN AWARD 2016
BEST 100**



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

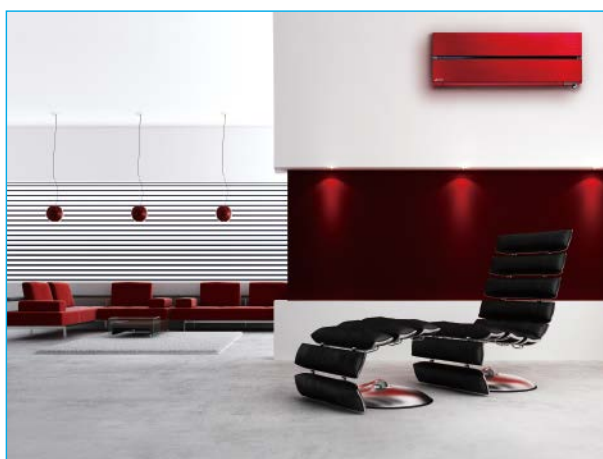
Natural White, Pearl White, Ruby Red, and Onyx Black. LN Series indoor units are available in four colours to match various lifestyles. The appearance of the indoor unit differs depending on the lighting in the room, attracting the attention of everyone that enters the room.



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

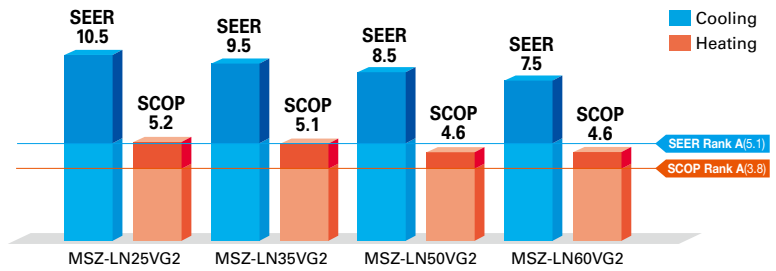


Natural White

High Energy Efficiency

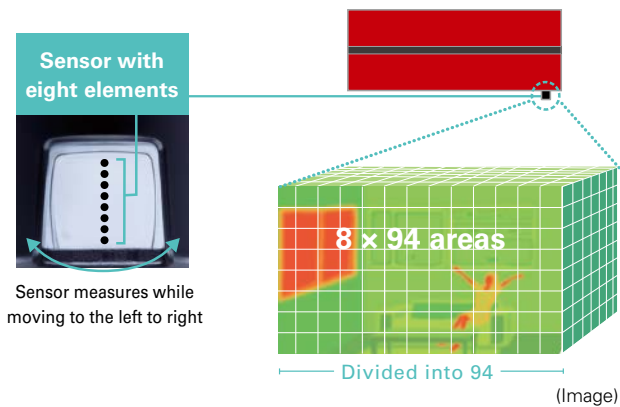


Optimum cooling/heating performance is another feature for the LN series. Models from capacities 25 to 50 have achieved the "Rank A+++" for SEER, and models for capacities 25 and 35 have achieved the "Rank A+++" for SCOP as well.



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.



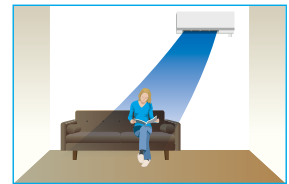
Indirect Airflow

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.



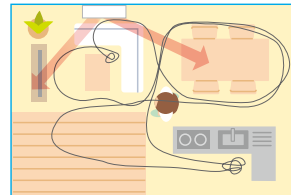
Direct Airflow

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



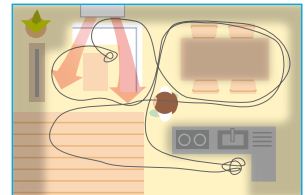
Even Airflow *LN Series only

Normal swing mode



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

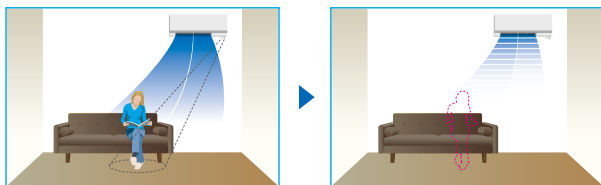
Even airflow mode



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

No occupancy energy-saving mode

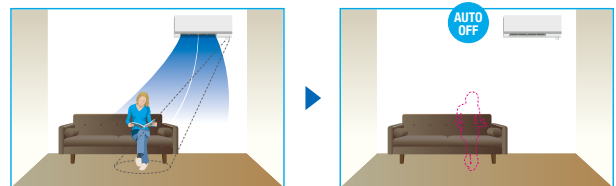
The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.



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

No 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.

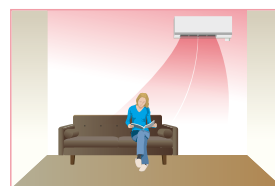


Circulator Operation

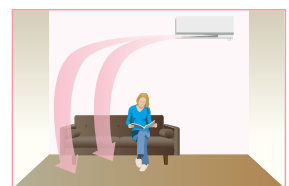
(MSZ-LN18/25/35/50/60VG-SC Scandinavian model)

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.

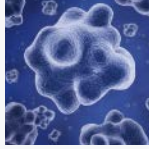


This operating can help to circulate and rene warm air.

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.

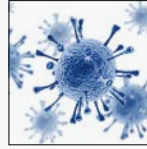
Bacteria



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

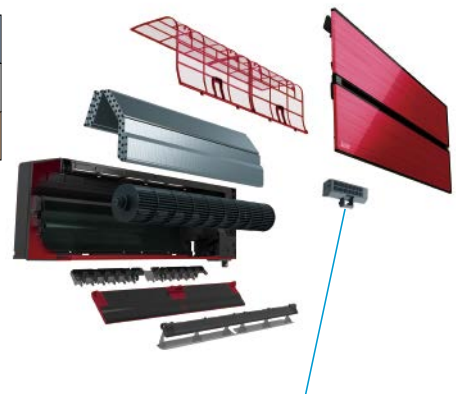
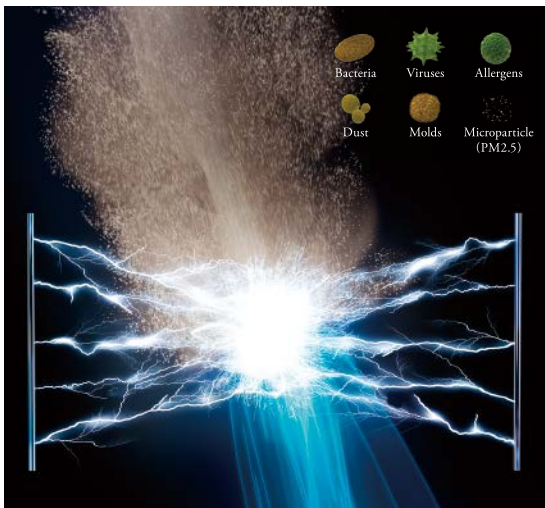
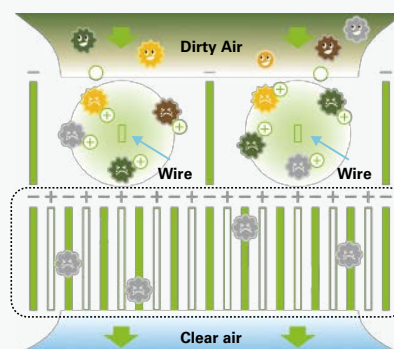


Image of Plasma Quad Plus



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 (+).

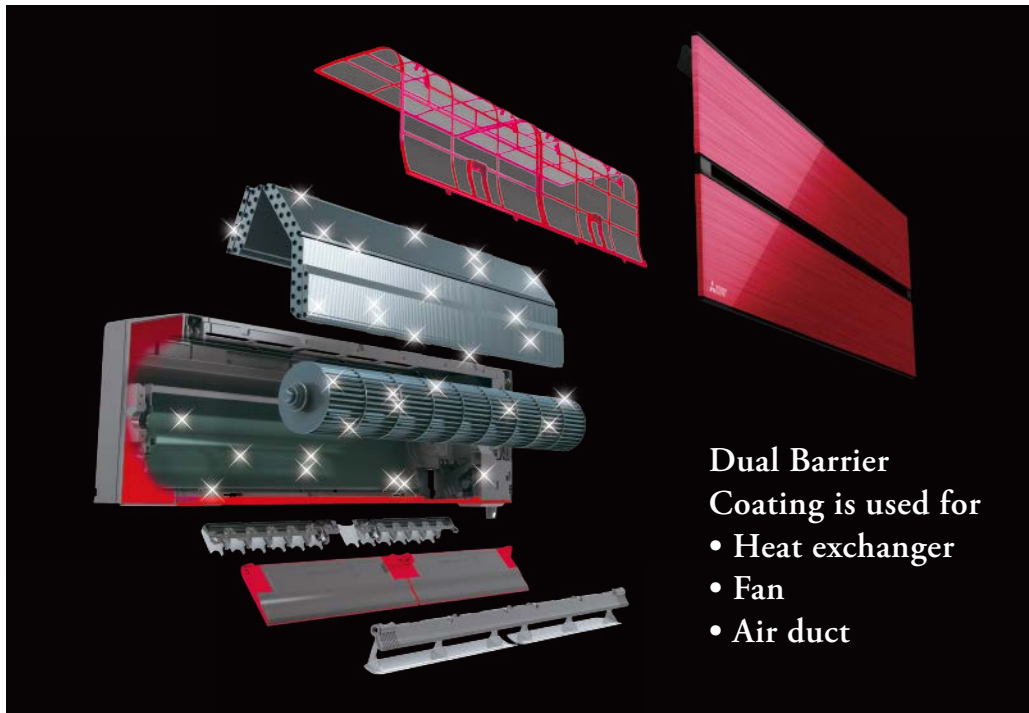
2nd stage

- 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.



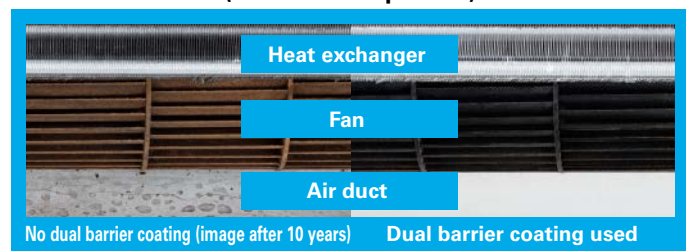
SIAA ^{*1}
Anti Fungus
 JP0512075X0001C
 (Fan, Air duct)

State-of-the-art coating technology

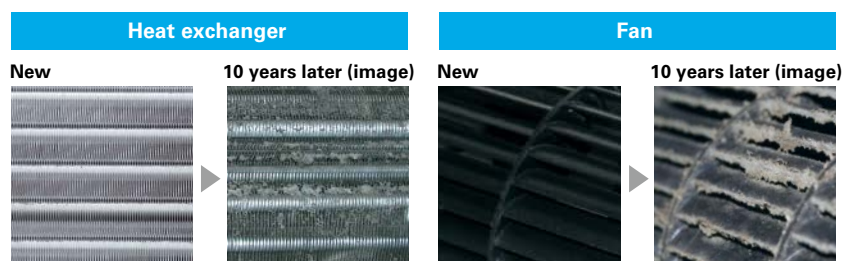
Dirt is generally classified into two groups: hydrophilic dirt such as fiber dust and sand dust, and hydrophobic dirt such as oil and cigarette smoke. Mitsubishi Electric's dual barrier coating works as a two-barrier coating that prevent hydrophilic dirt penetration and "hydrophilic particles" that prevent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



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



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.

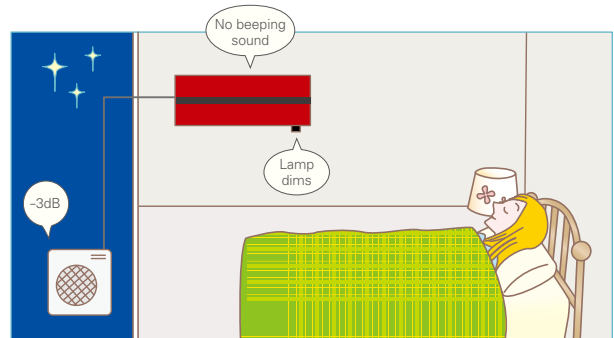


Night Mode

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.

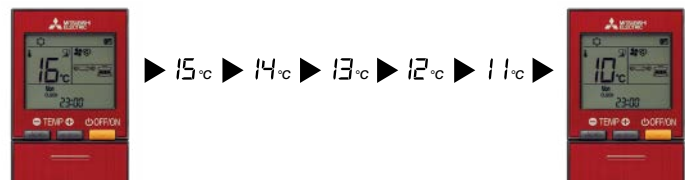
*The cooling/heating capacity may drop.



10°C Heating

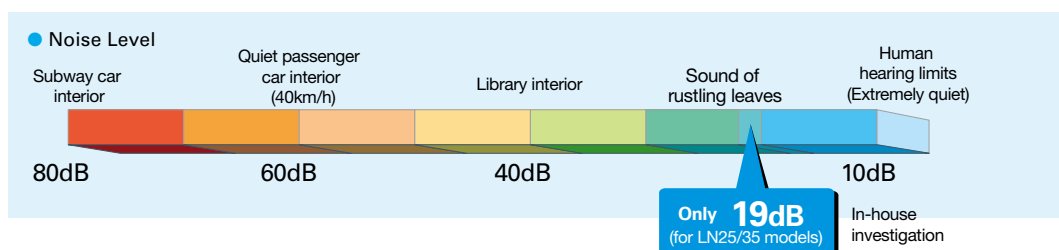
During heating operation, the temperature can be set in 1°C increments down to 10°C.

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



Quiet Operation

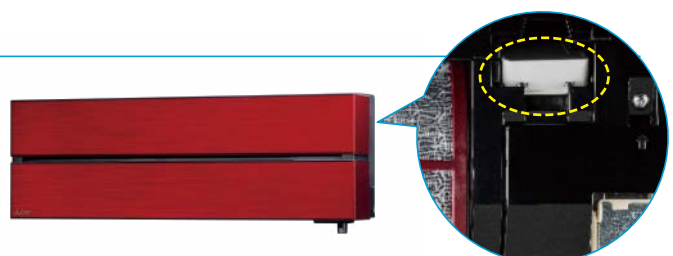
The indoor unit noise level is as low as 19dB for LN25/35 models, offering a peaceful inside environment.



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

PUMP
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-LN60VG2



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-LN60VG2
Refrigerant	Single: R32 ⁽¹⁾ / Multi: R410A or R32 ⁽¹⁾				
Power Supply	Outdoor Power Supply				
	230 / Single / 50				
Cooling	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
	Energy efficiency class		A+++	A+++	A++
	Capacity				
Heating	Design load	kW	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)
	Declared Capacity				
	at reference design temperature	kW	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)
	at valient 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)
Heating (Average Season) ⁽³⁾	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				
Operating Current (Max)	Rated	kW	3.2	4.0	6.0
	Min-Max	kW	0.7 - 5.4	0.9 - 6.3	1.0 - 8.2
	Total Input	kW	0.600	0.820	1.480
	Operating Current (Max)	A	7.1	9.9	13.9
	Input	kW	0.027	0.027	0.034
Indoor Unit	Operating Current(Max)	A	0.3	0.3	0.4
	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)	14.5 (W) 15.5 (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	4.7 - 5.9 - 7.1 - 9.2 - 13.0
	Sound Level (SPL)	dB(A)	19 - 23 - 29 - 36 - 42	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43
Outdoor Unit	Sound Level (PWL)	dB(A)	19 - 24 - 29 - 38 - 45	19 - 24 - 29 - 38 - 45	19 - 24 - 29 - 38 - 45
	Sound Level (SPL)	dB(A)	58	58	59
	Sound Level (PWL)	dB(A)	58	58	59
	Operating Current (Max)	A	6.8	9.6	13.5
	Breaker Size	A	10	10	16
Ext. Piping	Diameter	mm	6.35/9.52	6.35/9.52	6.35/9.52
	Max.Length	m	20	20	30
	Max.Height	m	12	12	15
	Guaranteed Operating Range (Outdoor)	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
		°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 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.

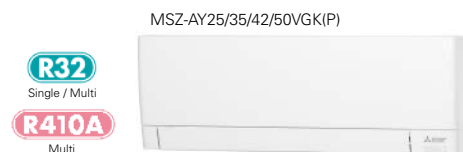
(3) SHi: Super High

(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 57-59 for heating (warmer season) specifications.

MSZ-AY SERIES

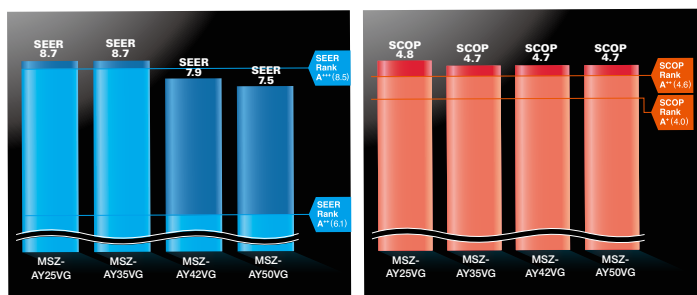
The AY series has an excellent cleanliness feature and ranges to two models: the VGK model comes standard with the V Blocking Filter, which has antiviral, antibacterial, anti-mold, and anti-allergen effects, and the VGKP model comes standard with Plasma Quad Plus, which can collect PM2.5 dust in addition to these effects. The AY series has also been upgraded in terms of quietness, energy efficiency, and ease of installation. Enjoy a comfortable air environment with the AY series.



High energy saving



The AY series have achieved either the "Rank A+++" or "Rank A++" for SEER and SCOP as energy-savings rating. The high-efficiency air conditioner is eco-friendly and economical.



Matt and Sophisticated Design



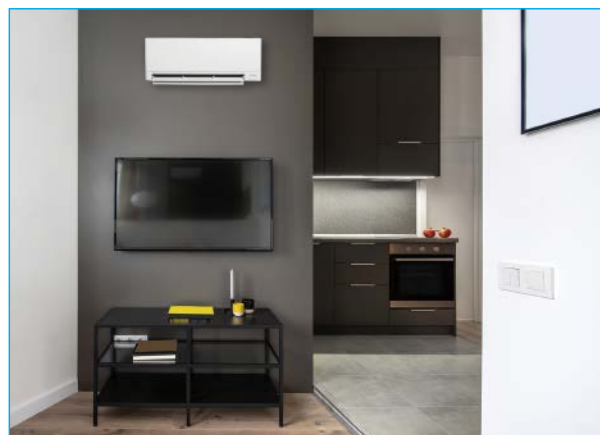
Rounded corners

The rounded corners give a soft impression that blends in with any room.

Simple and Compact size

While the plasma is built-in, the angle of the curve is carefully designed to maintain the compact unit.

The elegant and sophisticated design has been created to fit in any room, with careful attention to detail in the surface finish and panel angles.

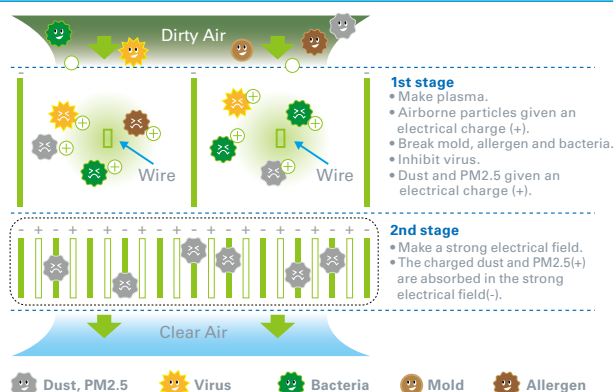


Plasma Quad Plus (only VGKP model)



You can enjoy the clean and safe air by 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.



We have confirmed Plasma Quad Plus inhibits 99% of adhered COVID-19.

*Tested Organization: National Hospital Organization Sendai Medical Center, Test Report No: R4-001 Test result: Neutralised 99% of influenza A virus in 210.5 minutes in a 25m³ test space.

*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%.

V Blocking Filter (only VGK model)

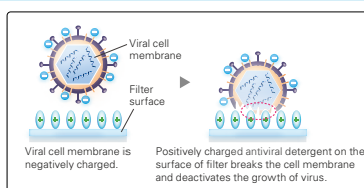
"V Blocking Filter" with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.

*Virus Test method: JIS L 1922, Tested Organization: Guangdong Detection Center of Microbiology, Test Report No: 2020FM30156R02D, Test result: 99% neutralized in 24 hours in a Testing Container.

Bacteria Test method: JIS L 1902, Tested Organization: Boken Quality Evaluation Institute, Test Report No: 29020006998-1, Test result: 99% neutralized in 18 hours in a Petri dish.

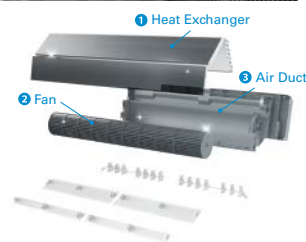
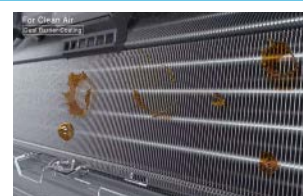
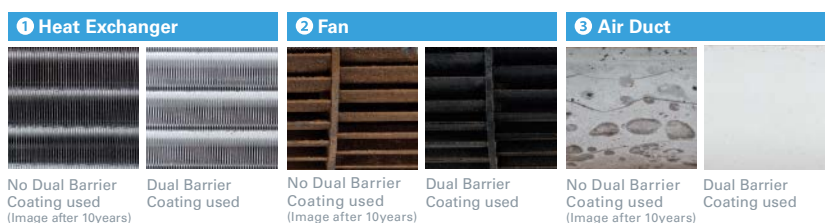
Mold Test method: JIS Z 2911, Tested Organization: Boken Quality Evaluation Institute, Test Report No: 29020006906-1, Test result: No mold growth was confirmed.

Allergen Test method: ELISA, Tested Organization: Daiwa Chemical Industries Co., Ltd, Test Report No: 2021B267, Test result: 96% neutralized in 24 hours.



Dual Barrier Coating

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. Hydrophilic material resists oil stains and hydrophobic material resists dust stains.



Self Clean

When Self Clean Mode is activated, fan operation starts after cooling/dry mode. This operation helps to dry inside indoor unit to prevent molds and odors. You can feel the clean air without frequent cleaning by yourself.

① High humidity inside the unit, which can lead to mold growth and odors.



② Airflow operation suppresses mycelial growth.



③ Maintains clean unit interior.



*When SELF CLEAN operation is set, it performs for 25 minutes when unit is stopped after COOL/DRY operation. SELF CLEAN operation performs when: COOL/DRY is operated more than 3 minutes. The fan is stopped for the first 3 minutes. Then, the horizontal vane is set to higher than angle 1 and the fan is operated for 25 minutes. To enable this function, press "Self Clean Mode" button on remote controller. (Default setting is OFF)



Quietness 18dB

Noiseless 18dB



Quiet, relaxing space is within reach. Operational noise is 18dB (25/35 classes), which is so quiet that you might even forget the air conditioner is on.



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 be 3dB lower than the rated operating noise specification.

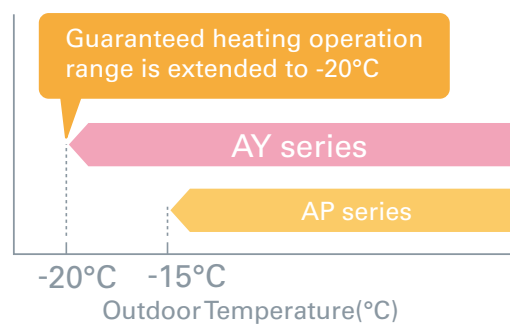
*The cooling/heating capacity may drop.



Wider Heating Operation Range

Mitsubishi Electric technology ensures that the unit will operate even when the outside temperature is down to -20°C.

Wider Heating Operation Range



Outdoor Units for Cold Region

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

Standard Units

Heater Installed



MUZ-AY25/35/42VG



MUZ-AY50VG



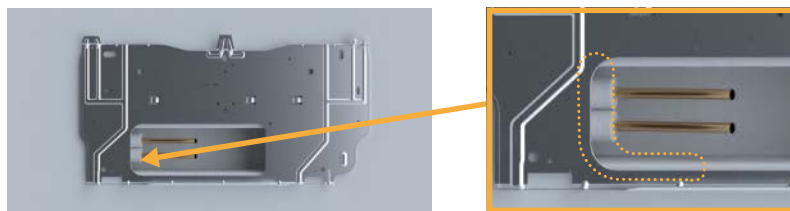
MUZ-AY25/35/42VGH



MUZ-AY50VGH

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.



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.

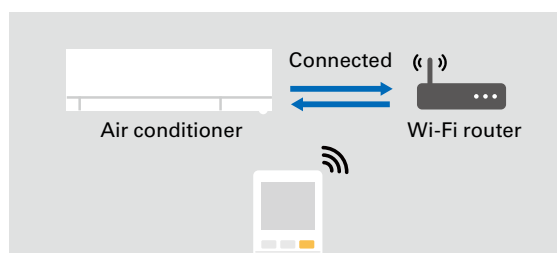
[key control and monitoring features]

- On/Off
- Check and set driving conditions
- Notification of weather conditions from current location
- Weekly timer set
- Energy consumption check
- Air purification on/off



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.



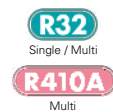
Remote Controller features

The remote controller screen is equipped with LED back-light. The luminous screen allows you to check the setting easily even in the dark. You can easily connect Wi-Fi adaptor in the indoor unit and your local router with just a simple operation of remote controller.



MSZ-AP 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-AP20VG



MSZ-AP15/20VG

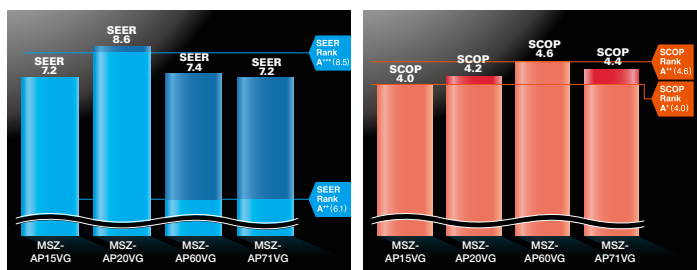


MSZ-AP60/71VG



High energy saving

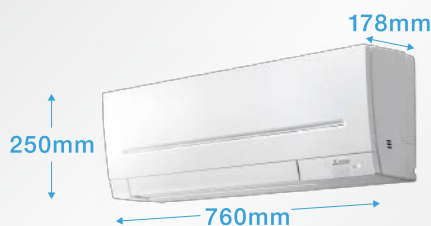
The classes from the low-capacity 25 to the high-capacity 60, have achieved either the "Rank A+++" or "Rank A++" for SEER and SCOP as energy-savings rating. Our air conditioners are contributing to reduce energy consumption in a wide range.



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.

MSZ-AP15/20VG



MSZ-AP60/71VG



Living



Study

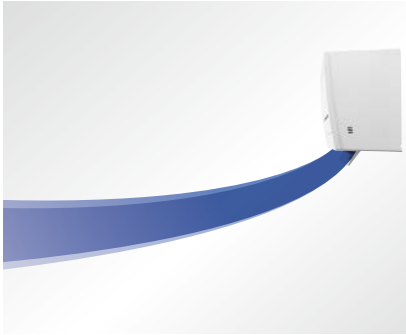


Bedroom



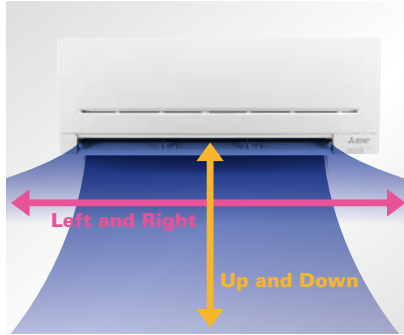
Evolved comfortable convenience function

Horizontal Airflow



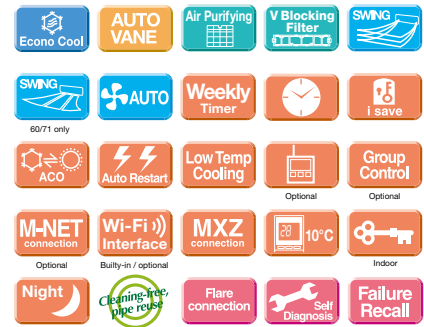
The new airflow control which spreads across the ceiling eliminates the uncomfortable drafty feeling.

Auto Vane Control



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

The Function



"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

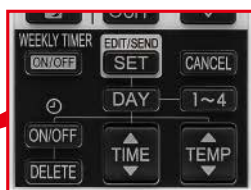
Pattern Settings: Input up to four settings for each day

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

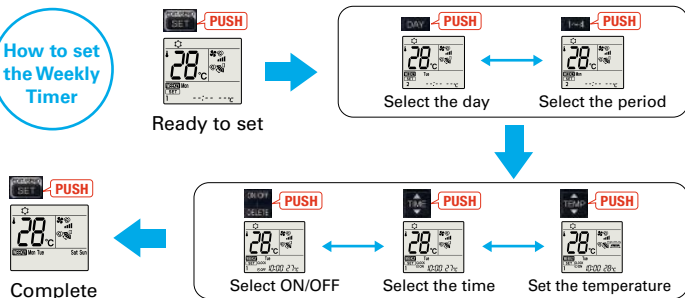
■ Easy set-up using dedicated buttons



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”

around **10W**

with
“Low standby power”

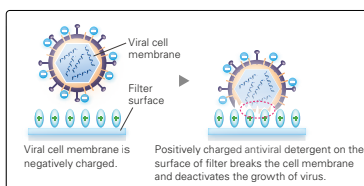
below
1W

around
90% reduction

V Blocking Filter

V Blocking Filter

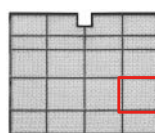
V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



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)

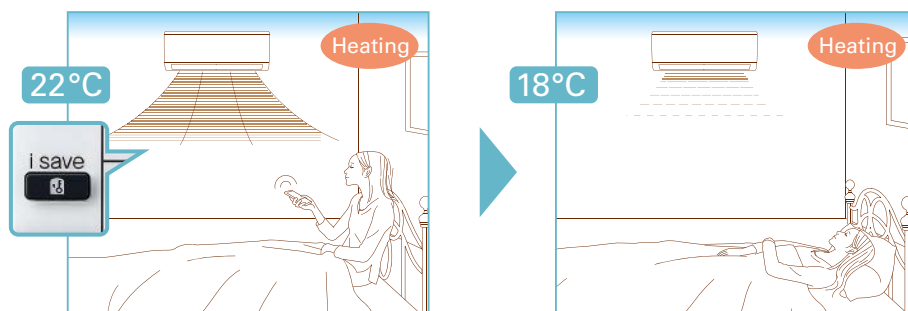


3D surface (Waved surface)

“i save” Mode

i save

“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.

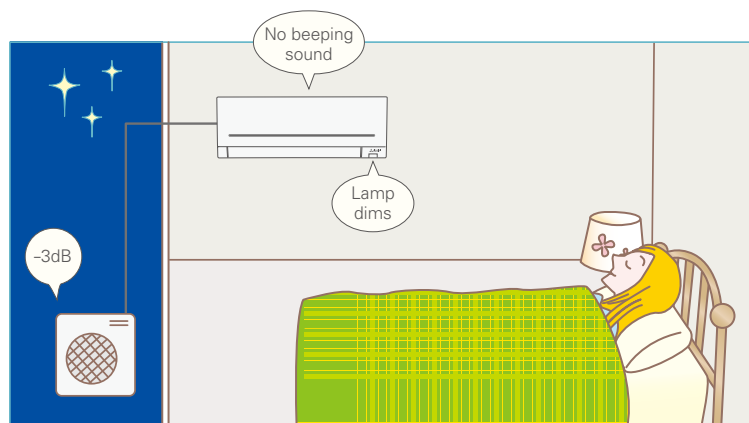
Night Mode



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.



Built-in Wi-Fi Interface

(MSZ-AP15/20/60/71VGK)



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-AY SERIES



Indoor Unit

R32 R410A



MSZ-AY25/35/42/50VGK(P)

Outdoor Unit

R32



MUZ-AY25/35/42VG(H)



MUZ-AY50VG(H)

Remote Controller



Type		Inverter Heat Pump							
Indoor Unit		MSZ-AY25VGK(P)	MSZ-AY25VGK(P)	MSZ-AY35VGK(P)	MSZ-AY35VGK(P)	MSZ-AY42VGK(P)	MSZ-AY42VGK(P)	MSZ-AY50VGK(P)	MSZ-AY50VGK(P)
Outdoor Unit		MUZ-AY25VG	MUZ-AY25VG	MUZ-AY35VG	MUZ-AY35VG	MUZ-AY42VG	MUZ-AY42VG	MUZ-AY50VG	MUZ-AY50VG
Refrigerant		R32 ⁽¹⁾							
Power Supply	Source	Outdoor Power supply							
	Outdoor (V / Phase / Hz)	230/Single/50							
Cooling	Design load	kW	2.5	2.5	3.5	3.5	4.2	4.2	5.0
	Annual electricity consumption ⁽²⁾	kWh/a	100	100	141	141	186	186	232
	SEER ⁽⁴⁾		8.7	8.7	8.7	8.7	7.9	7.9	7.5
	Energy efficiency class		A+++	A+++	A+++	A+++	A++	A++	A++
	Capacity	Rated	kW	2.5	2.5	3.5	4.2	4.2	5.0
		Min-Max	kW	0.9-3.4	0.9-3.4	1.1-3.8	0.9-4.5	0.9-4.5	1.4-5.4
Heating (Average Season) ⁽⁵⁾	Total Input	Rated	kW	0.600	0.600	0.990	1.300	1.300	1.540
	Design load	kW	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
		at reference design temperature	kW	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
	Declared Capacity	kW	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
		at bivalent temperature	kW	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
	Back up heating capacity	kW	1.9 (-20°C)	1.9 (-20°C)	2.0 (-20°C)	2.0 (-20°C)	2.7 (-20°C)	2.7 (-20°C)	3.0 (-20°C)
		at operation limit temperature	kW	1.9 (-20°C)	1.9 (-20°C)	2.0 (-20°C)	2.0 (-20°C)	2.7 (-20°C)	3.0 (-20°C)
	Annual electricity consumption ⁽²⁾	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)	0.0 (-10°C)
		at operation limit temperature	kWh/a	697	709	863	1131	1146	1265
	SCOP ⁽⁴⁾		4.8	4.7	4.7	4.6	4.6	4.7	4.6
Indoor Unit	Energy efficiency class		A++	A++	A++	A++	A++	A++	A++
	Capacity	Rated	kW	3.2	3.2	4.0	5.2	5.2	5.5
		Min	kW	1.0	1.0	1.3	1.3	1.3	1.4
	Max at 7°C	kW	4.1	4.1	4.6	4.6	6.0	6.0	7.3
		Rated	kW	0.780	0.780	1.030	1.390	1.390	1.470
	Operating Current (Max)		A	7.6	7.6	7.6	9.9	9.9	13.8
	Input	Rated	kW	0.026	0.026	0.026	0.032	0.032	0.032
		Operating Current (Max)	A	0.3	0.3	0.3	0.3	0.3	0.3
	Dimensions		H*W*D	mm	299-798-245	299-798-245	299-798-245	299-798-245	299-798-245
	Weight		kg	VGKP:11, VGK:10.5	VGKP:11, VGK:10.5	VGKP:11, VGK:10.5	VGKP:11, VGK:10.5	VGKP:11, VGK:10.5	VGKP:11, VGK:10.5
Outdoor Unit	Air Volume (Lo-Lo-Mid-Hi-SH ⁽³⁾)	Cooling	m³/min	3.6-5.0-6.3-7.8-10.5	3.6-5.0-6.3-7.8-10.5	3.6-5.0-6.3-7.8-11.1	4.5-5.7-7.0-8.4-10.5	4.5-5.7-7.0-8.4-10.5	5.2-6.4-7.5-9.1-11.7
		Heating	m³/min	4.0-5.0-6.6-8.0-11.8	4.0-5.0-6.6-8.0-11.8	4.0-5.0-6.6-8.0-11.8	4.4-5.4-7.0-8.6-12.9	4.4-5.4-7.0-8.6-12.9	4.8-5.7-7.3-9.1-12.9
	Sound Level (SPL) (Lo-Lo-Mid-Hi-SH ⁽³⁾)	Cooling	dB(A)	18-24-30-36-42	18-24-30-36-42	18-24-30-36-42	21-29-34-38-42	21-29-34-38-42	28-33-36-40-44
		Heating	dB(A)	18-24-34-39-45	18-24-34-39-45	18-24-31-38-45	21-29-35-40-45	21-29-35-40-45	28-33-38-43-48
	Sound Level (PWL)	Cooling	dB(A)	57	57	57	57	57	58
		Heating	dB(A)	59	59	61	61	61	64
	Operating Current (Max)		A	7.3	7.3	7.3	9.6	9.6	13.5
	Breaker Size		A	10	10	10	10	10	16
	Diameter		Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
	Chargeless piping length		m	7.5	7.5	7.5	7.5	7.5	7.5
Ext. Piping	Max.Length		m	20	20	20	20	20	20
	Max.Height		m	12	12	12	12	12	12
	Guaranteed Operating Range (Outdoor)		°C	-10 ~ +46	-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 57-58 for heating (warmer season) specifications.

MSZ-AP SERIES



Indoor Unit

R32 R410A

※VGK model Wi-Fi Interface built-in.



MSZ-AP15/20VG(K)



MSZ-AP60/71VG(K)

Outdoor Unit

R32



MUZ-AP15VG



MUZ-AP20VG



MUZ-AP60VG



MUZ-AP71VG

Remote Controller



Type	Inverter Heat Pump						
Indoor Unit	MSZ-AP15VG(K)		MSZ-AP20VG(K)		MSZ-AP60VG(K)		
Outdoor Unit	MUZ-AP15VG		MUZ-AP20VG		MUZ-AP60VG		
Refrigerant	Single: R32 ⁽¹⁾ / Multi: R410A or R32 ⁽¹⁾			Single: R32 ⁽¹⁾ / Multi: R32 ⁽¹⁾			
Power Source	Outdoor Power supply						
Supply	230 / Single / 50						
Cooling	Design load	kW	1.5	2.0	6.1		
	Annual electricity consumption ⁽²⁾	kWh/a	72	81	288		
	SEER ⁽⁴⁾		7.2	8.6	7.4		
	Energy efficiency class		A++	A+++	A++		
						A++	
	Capacity	Rated	kW	1.5	2.0	6.1	
Heating (Average Season) ⁽³⁾	Min-Max	kW	0.5-2.2	0.6-2.7	1.4-7.3		
	Total Input	Rated	kW	0.370	0.460	1.590	
	Design load	kW	1.6 (-10°C)	2.3 (-10°C)	4.6 (-10°C)	6.7 (-10°C)	
	Declared Capacity	at reference design temperature	kW	1.6 (-10°C)	2.3 (-10°C)	4.6 (-10°C)	6.7 (-10°C)
		at bivalent temperature	kW	1.6 (-10°C)	2.3 (-10°C)	4.6 (-10°C)	6.7 (-10°C)
		at operation limit temperature	kW	1.6 (-15°C)	2.2 (-15°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)	
	Annual electricity consumption ⁽²⁾	kWh/a	559	766	1398	2132	
	SCOP ⁽⁴⁾		4.0	4.2	4.6	4.4	
	Energy efficiency class		A+	A+	A++	A+	
						A+	
Capacity	Rated	kW	2.0	2.5	6.8	8.1	
Operating Current (Max)	Min-Max	kW	0.5-3.1	0.5-3.5	2.0-8.6	2.2-10.3	
	Total Input	Rated	kW	0.500	0.600	1.670	2.120
	Input	Rated	A	5.5	7.0	14.1	16.4
	Operating Current (Max)	A	0.017	0.019	0.049	0.045	
	Dimensions	H*W*D	mm	250-760-178	250-760-178	325-1100-257	325-1100-257
	Weight	kg	8.2	8.2	16.0	17.0	
	Air Volume (SLo-Lo-Mid-Hi-SH ⁽¹⁾)	Cooling	m³/min	3.5 - 3.9 - 4.6 - 5.5 - 6.4	3.5 - 3.9 - 4.6 - 5.5 - 6.9	9.4 - 11.0 - 13.2 - 16.0 - 18.9	9.6 - 11.5 - 13.2 - 15.3 - 18.6
		Heating	m³/min	3.7 - 4.4 - 5.0 - 6.0 - 6.8	3.7 - 4.4 - 5.0 - 6.0 - 7.3	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 ⁽¹⁾)	Cooling	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	29 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 49
		Heating	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	30 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 51
Sound Level (PWL)	Cooling	dB(A)	59	60	65	65	
Outdoor Unit		Heating	dB(A)	59	60	65	65
	Dimensions	H*W*D	mm	538-699-249	550-800-285	714-800-285	880-840-330
	Weight	kg	23	31	40	55	
	Air Volume	Cooling	m³/min	26	32.2	52.1	54.1
		Heating	m³/min	21	29.8	52.1	47.9
	Sound Level (SPL)	Cooling	dB(A)	50	47	56	56
		Heating	dB(A)	50	48	57	55
	Sound Level (PWL)	Cooling	dB(A)	63	59	69	69
		Heating	dB(A)	63	59	69	69
	Operating Current (Max)	A	5.3	6.8	13.6	16.0	
Ext. Piping	Breaker Size	A	10	10	16	20	
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7
	Max.Length	Out-In	m	20	20	30	30
Guaranteed Operating Range (Outdoor)	Max.Height	Out-In	m	12	15	15	15
	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
	Heating	°C	-15 ~ +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 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 57-59 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



GOOD DESIGN
AWARD 2014



reddot award 2015
winner



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



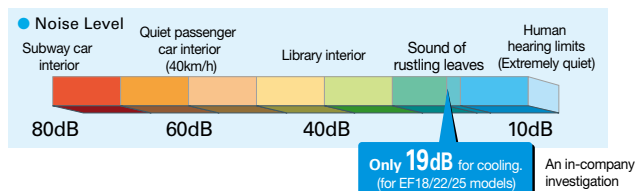
All models in the series have achieved high energy-savings rating, and are contributing to reduced energy consumption in homes, offices and a range of other settings. Offered in a variety of output capacities and installation patterns, the vast applicability promises an ideal match for any user.

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

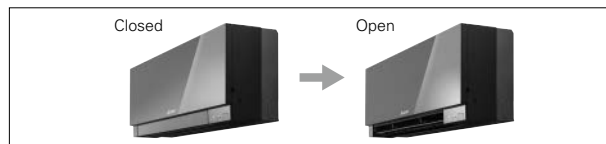
Quiet Comfort All Day Long

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.

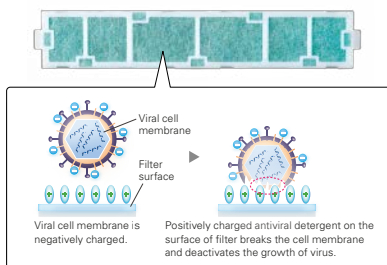


V Blocking Filter



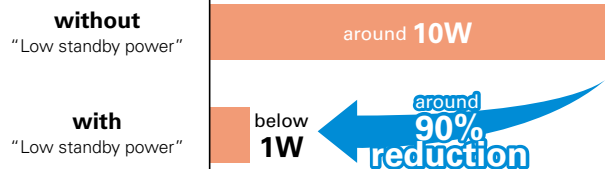
V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen.

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



MUZ-EF25/35VG

Heater Installed



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

Outdoor Unit R32



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



MUZ-EF50VG

GOOD DESIGN
AWARD 2015

reddot award 2015
winner



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-EF25VGH	MUZ-EF35VG	MUZ-EF35VGH	MUZ-EF42VG	MUZ-EF50VG	
Refrigerant			R32 ⁽¹⁾								
Power Supply	Source		Outdoor Power supply								
	Outdoor (V / Phase / Hz)		230/Single/50								
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 ⁽⁴⁾		-	-	9.1	9.1	8.8	8.8	7.9	7.5	
	Energy efficiency class		-	-	A+++	A+++	A+++	A+++	A++	A++	
		Capacity	Rated	kW	-	-	2.5	2.5	3.5	3.5	4.2
Heating (Average Season) ⁽³⁾	Min-Max	kW	-	-	0.9-3.4	0.9-3.4	1.1-4.0	1.1-4.0	0.9-4.6	1.4-5.4	
	Total Input	Rated	kW	-	-	0.540	0.540	0.910	0.910	1.200	1.540
	Design load	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	
	Declared Capacity	at reference design temperature	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
		at bivalent temperature	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
at operation limit temperature		kW	-	-	2.0 (-15°C)	1.6 (-20°C)	2.4 (-15°C)	1.7 (-20°C)	3.4 (-15°C)	3.5 (-15°C)	
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	-	-	713	727	882	900	1151	1304		
SCOP ⁽⁴⁾		-	-	-	4.7	4.6	4.6	4.5	4.6	4.5	
	Energy efficiency class		-	-	A++	A++	A++	A+	A++	A+	
		Capacity	Rated	kW	-	-	3.2	3.2	4.0	4.0	5.4
Total Input	Min-Max	kW	-	-	1.0-4.2	1.0-4.2	1.3-5.1	1.3-5.1	1.3-6.3	1.4-7.5	
	Rated	kW	-	-	0.700	0.700	0.950	0.950	1.455	1.560	
	Operating Current (Max)	A	-	-	7.1	7.1	7.1	7.1	10.0	14	
Indoor Unit	Input	Rated	kW	0.026	0.026	0.026	0.026	0.030	0.030	0.033	0.043
	Operating Current (Max)	A	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	
	Dimensions	H*W*D	mm	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	
	Weight	kg	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	
	Air Volume (SLo-Lo-Mid-Hi-Sh) ⁽⁵⁾	Cooling	m³/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	
Heating		m³/min	40-46-62-89-119	40-46-62-89-119	40-46-62-89-119	40-46-62-89-119	40-46-62-89-127	40-46-62-89-127	55-63-78-99-132	64-72-90-111-148	
Sound Level (SPL) (SLo-Lo-Mid-Hi-Sh) ⁽⁵⁾	Cooling	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	28-31-35-39-43	30-33-36-40-43	
	Heating	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	21-24-30-38-46	28-30-35-41-48	30-33-37-43-49	
Outdoor Unit	Sound Level (PWL)	Cooling	dB(A)	60	60	60	60	60	60	60	60
	Dimensions	H*W*D	mm	-	-	550-800-285	550-800-285	550-800-285	550-800-285	550-800-285	714-800-285
	Weight	kg	-	-	31	31	34	34	35	40	
	Air Volume	Cooling	m³/min	-	-	27.8	27.8	34.3	34.3	32.0	40.2
		Heating	m³/min	-	-	29.8	29.8	32.7	32.7	32.7	40.2
Ext. Piping	Sound Level (SPL)	Cooling	dB(A)	-	-	47	47	49	49	50	52
	Sound Level (PWL)	Heating	dB(A)	-	-	48	48	50	50	51	52
		Cooling	dB(A)	-	-	58	58	62	62	62	65
	Operating Current (Max)	A	-	-	6.8	6.8	6.8	6.8	9.6	13.6	
	Breaker Size	A	-	-	10	10	10	10	12	16	
Guaranteed Operating Range (Outdoor)	Diameter	Liquid/Gas	mm	-	-	6.35 / 9.52	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	30	
	Max.Height	Out-In	m	-	-	12	12	12	12	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) 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 57-58 for heating (warmer season) specifications.

MSZ-BT SERIES

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

R32
Single / Multi

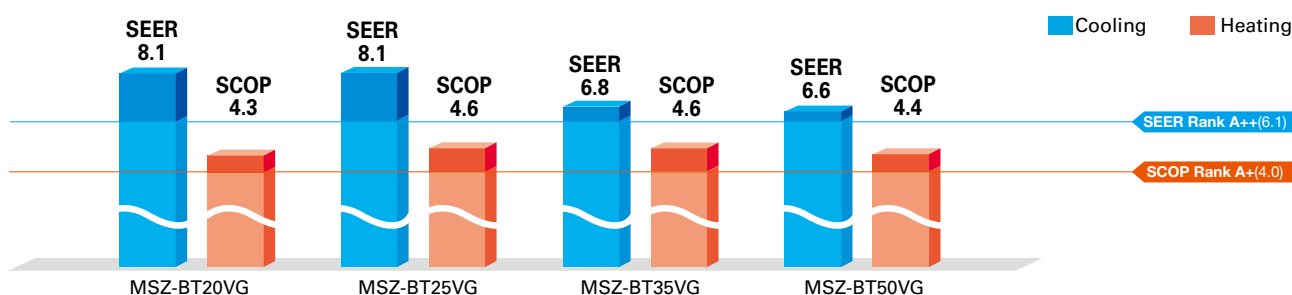
MSZ-BT20/25/35/50VG(K)



High Energy Efficiency for Entire Range of Series

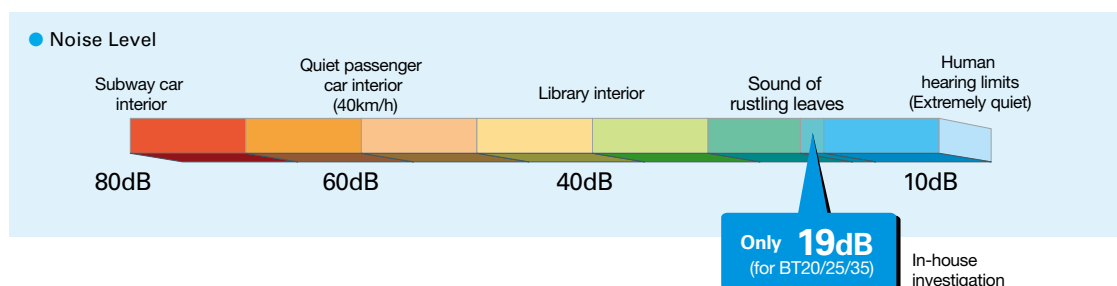


All models in the series, from the low-capacity 20 to the high-capacity 50, have achieved the "Rank A++" for SEER and size 25 and 35 have achieved the "Rank A++" for SCOP as energy-savings rating. For home use, such as in bedrooms and living rooms, to light commercial use, such as in offices, our air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

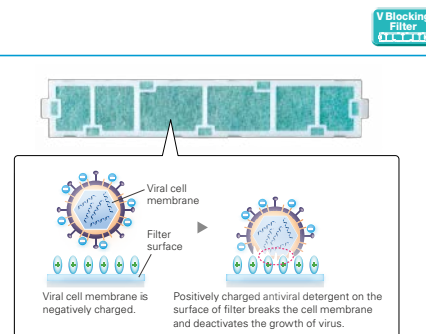
(MSZ-BT20/25/35/50VG(K))



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.

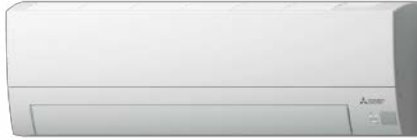


MSZ-BT SERIES



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	Source	Outdoor Power supply			
	Outdoor (V / Phase / Hz)	230V/Single/50Hz			
Cooling	Design load	kW	2.0	2.5	3.5
	Annual electricity consumption ⁽²⁾	kWh/a	86	108	180
	SEER ⁽⁴⁾		8.1	8.1	6.8
	Energy efficiency class		A++	A++	A++
	Capacity				
	Rated	kW	2.0	2.5	3.5
Heating	Min-Max	kW	0.5-2.9	0.5-3.0	0.9-3.5
	Total Input	Rated	kW	0.450	0.700
	Design load	kW	1.5 (-10°C)	1.9 (-10°C)	2.4 (-10°C)
	Declared Capacity				
	at reference design temperature	kW	1.5 (-10°C)	1.9 (-10°C)	2.4 (-10°C)
	at bivalent temperature	kW	1.5 (-10°C)	1.9 (-10°C)	2.4 (-10°C)
Heating (Average Season) ⁽⁵⁾	at operation limit temperature	kW	1.3 (-15°C)	1.7 (-15°C)	2.1 (-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	487	577	727
	SCOP ⁽⁴⁾		4.3	4.6	4.6
	Energy efficiency class		A+	A++	A+
	Capacity				
Operating Current (Max)	Rated	kW	2.5	3.15	3.6
	Min-Max	kW	0.7-3.2	0.7-3.5	0.9-4.1
	Total Input	Rated	kW	0.550	0.750
	Operating Current (Max)	A	5.6	7.0	7.0
	Input	Rated	kW	0.024	0.031
	Operating Current (Max)	A	0.25	0.25	0.31
Indoor Unit	Dimensions	H*W*D	mm	280-838-235	280-838-235
	Weight	kg	9	9	9
	Air Volume	Cooling	m ³ /min	4.2 - 5.2 - 6.8 - 8.7 - 10.9	4.2 - 5.2 - 6.8 - 8.7 - 10.9
	Lo-Mid-Hi-SH ⁽³⁾	Heating	m ³ /min	4.2 - 5.0 - 6.8 - 9.0 - 11.9	4.2 - 5.0 - 6.8 - 9.0 - 11.9
	Sound Level (SPL)	Cooling	dB(A)	19 - 22 - 30 - 37 - 43	19 - 22 - 31 - 38 - 46
	Lo-Mid-Hi-SH ⁽³⁾	Heating	dB(A)	20 - 23 - 30 - 37 - 43	20 - 23 - 30 - 37 - 44
Outdoor Unit	Sound Level (PWL)	Cooling	dB(A)	57	57
	Dimensions	H*W*D	mm	538-699-249	538-699-249
	Weight	kg	23	24	24
	Air Volume	Cooling	m ³ /min	30.3	32.2
	Lo-Mid-Hi-SH ⁽³⁾	Heating	m ³ /min	30.3	32.2
	Sound Level (SPL)	Cooling	dB(A)	50	50
Ext. Piping	Lo-Mid-Hi-SH ⁽³⁾	Heating	dB(A)	50	50
	Sound Level (PWL)	Cooling	dB(A)	63	63
	Operating Current (Max)	A	5.3	6.7	6.7
	Breaker Size	A	10	10	10
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52
	Max.Length	Out-In	m	20	20
Guaranteed Operating Range (Outdoor)	Max.Height	Out-In	m	12	12
	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heating	°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 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 57-58 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

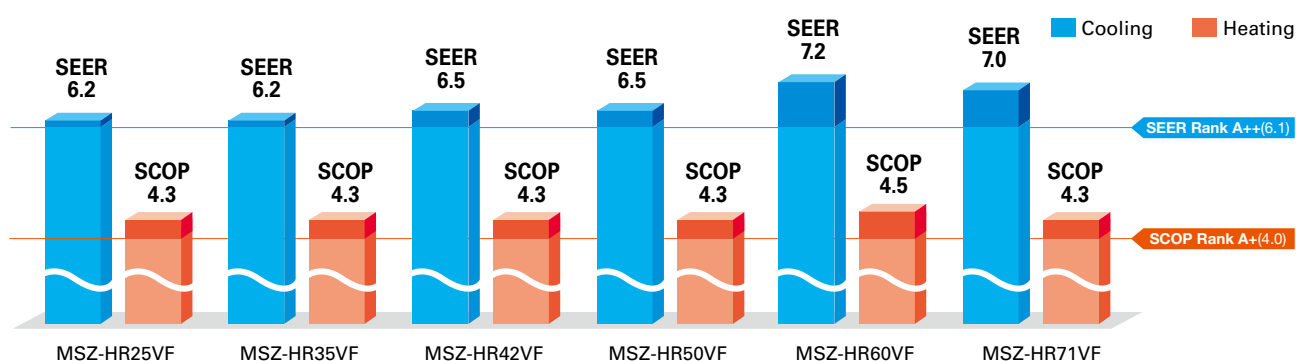
MSZ-HR25/35/42/50VF(K)

MSZ-HR60/71VF(K)

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

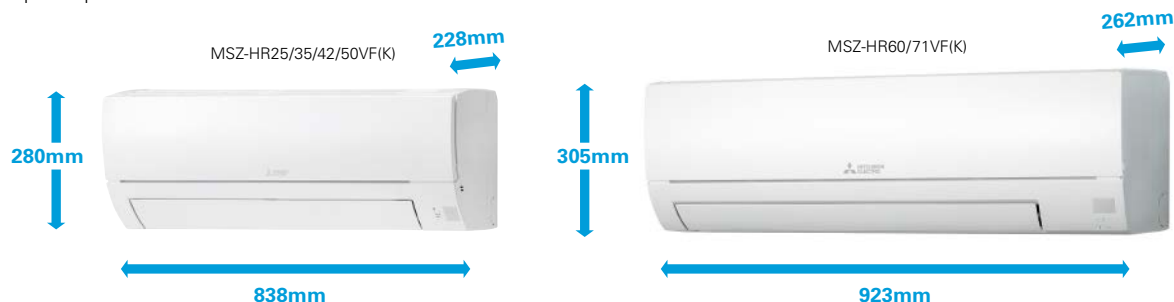


All models in the series, from capacity 25 to 71, have achieved the "Rank A++" for SEER and "Rank A+" for SCOP as energy-savings rating, thanks to Mitsubishi Electric's inverter technologies which are adopted to provide automatic adjustment of operation load according to need.



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

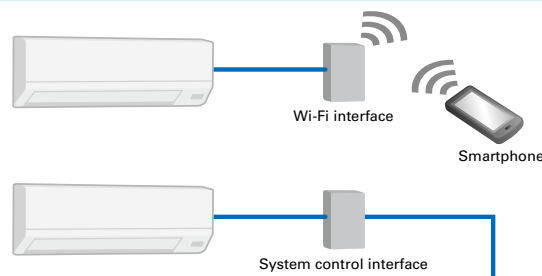
Wi-Fi Interface (Built-in) *Only VFK model

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.

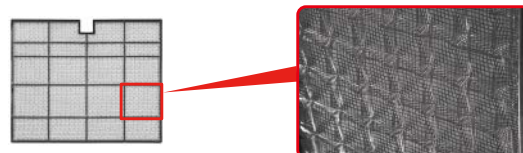
*Wi-Fi Interface and System Control Interface cannot be used simultaneously.



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

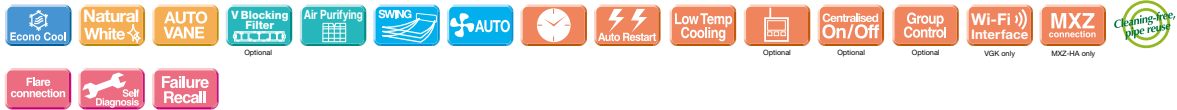


MUZ-HR42/50VF



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
	Annual electricity consumption ⁽²⁾	kWh/a	141	191	226	269	355
	SEER ⁽⁴⁾		6.2	6.2	6.5	6.5	7.0
	Energy efficiency class		A++	A++	A++	A++	A++
	Capacity						
Heating	Rated	kW	2.5	3.4	4.2	5.0	6.1
	Min-Max	kW	0.5-2.9	0.9-3.4	1.1-4.6	1.3-5.0	1.7-7.1
	Total Input	Rated	kW	0.800	1.210	1.340	2.050
	Design load	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)
	Declared Capacity						
Heating (Average Season) ⁽⁵⁾	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)
	at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-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)
	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	614	781	928	1224	1430
Operating Current (Max)	SCOP ⁽⁴⁾		4.3	4.3	4.3	4.3	4.3
	Energy efficiency class		A+	A+	A+	A+	A+
	Capacity						
	Rated	kW	3.15	3.6	4.7	5.4	6.8
	Min-Max	kW	0.7-3.5	0.9-3.7	0.9-5.4	1.4-6.5	1.5-9.0
Indoor Unit	Total Input	Rated	kW	0.850	0.975	1.300	1.550
	Operating Current (Max)						
	Input	Rated	kW	0.020	0.028	0.032	0.039
	Operating Current (Max)		A	0.2	0.3	0.36	0.5
	Dimensions	H*W*D	mm	280-838-228	280-838-228	280-838-228	305-923-262
Outdoor Unit	Weight	kg	8.5	8.5	9	9	12.5
	Air Volume						
	Lo-Mid-Hi-SH ⁽³⁾	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
	Sound Level (SPL)						
	Lo-Mid-Hi-SH ⁽³⁾	dB(A)	21 - 30 - 37 - 43	22 - 31 - 38 - 46	24 - 34 - 39 - 45	28 - 36 - 40 - 45	33 - 38 - 44 - 50
Ext. Piping	Sound Level (PWL)						
	Lo-Mid-Hi-SH ⁽³⁾	dB(A)	21 - 30 - 37 - 43	21 - 30 - 37 - 44	24 - 32 - 40 - 46	27 - 34 - 41 - 47	33 - 38 - 44 - 50
	Sound Level (PWL)	dB(A)	57	60	60	60	65
	Dimensions	H*W*D	mm	538-699-249	538-699-249	550-800-285	550-800-285
	Weight	kg	23	22	32.5	34	40
Guaranteed Operating Range (Outdoor)	Air Volume						
	Lo-Mid-Hi-SH ⁽³⁾	m³/min	30.3	32.2	30.4	30.4	42.8
	Sound Level (SPL)						
	Lo-Mid-Hi-SH ⁽³⁾	dB(A)	50	51	50	50	53
	Sound Level (PWL)	dB(A)	50	51	51	51	57
Guaranteed Operating Range (Outdoor)	Operating Current (Max)						
	Lo-Mid-Hi-SH ⁽³⁾	dB(A)	63	64	64	64	65
	Operating Current (Max)	A	4.8	6.4	8.2	9.6	13.6
	Breaker Size	A	10	10	10	12	16
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7
Guaranteed Operating Range (Outdoor)	Max.Length	Out-In	m	20	20	20	30
	Max.Height	Out-In	m	12	12	12	15
	Guaranteed Operating Range						
	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +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 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 57-59 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

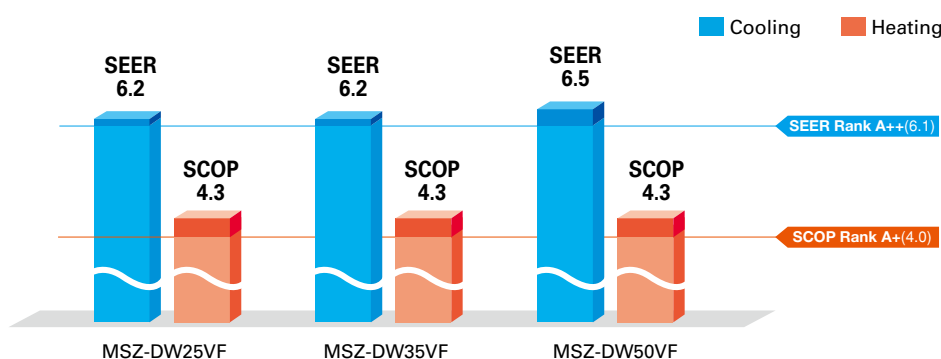
R32



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.

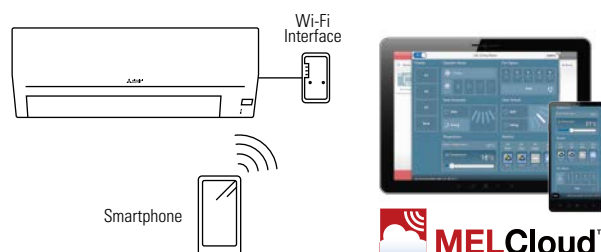
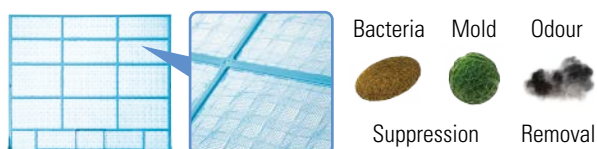
System Control Interface (Optional)

- 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

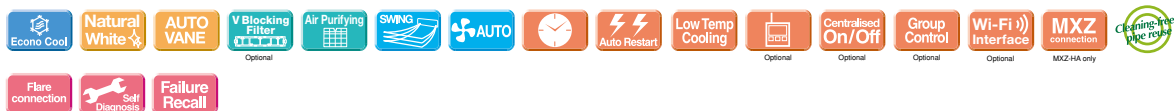


MUZ-DW35VF



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/50Hz			
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
Heating	Design load	kW	1.9 (-10°C)	2.4 (-10°C)
	Declared Capacity	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
Operating Current (Max)	Input	kW	0.023	0.028
	Operating Current(Max)	A	0.24	0.29
	Dimensions	H*W*D	290-799-232	290-799-232
	Weight	kg	9	10
	Air Volume (Lo-Mid-Hi-SH) ⁽³⁾	m³/min	3.6 - 5.6 - 7.5 - 9.9	3.6 - 5.8 - 8.1 - 11.3
Indoor Unit	Sound Level (SPL) (Lo-Mid-Hi-SH) ⁽³⁾	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
	Air Volume	m³/min	30.3	32.2
Outdoor Unit	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	Liquid/Gas	6.35 / 9.52	6.35 / 9.52
Ext. Piping	Max.Length	m	20	20
	Max.Height	m	12	12
	Guaranteed Operating Range (Outdoor)	°C	-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.

(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 57-59 for heating (warmer season) specifications.

MSY-TP_{SERIES}

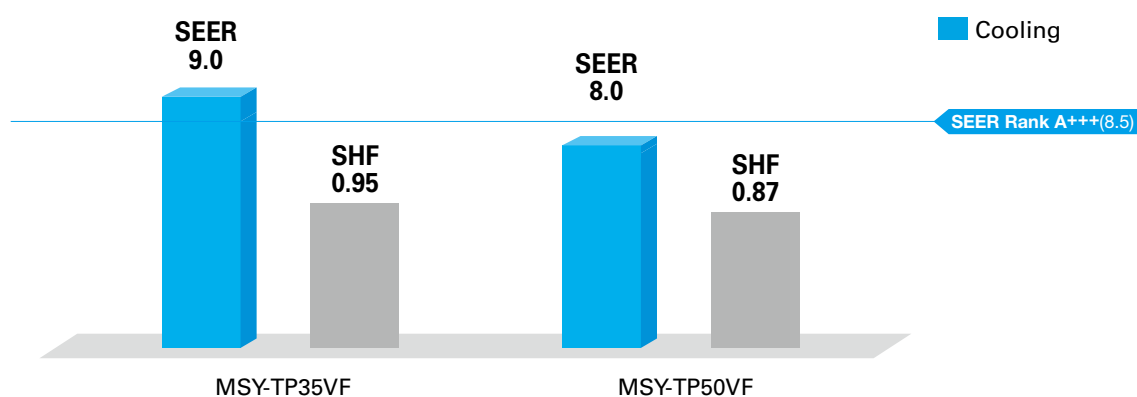
R32

MSY-TP35/50VF



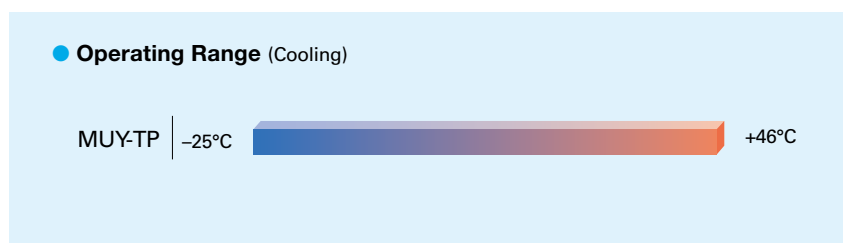
Cooling only model with high-performance provides high SHF in various environments thanks to wide operation range.

High Energy-Saving Performance with High SHF



Wide Cooling Operating Range

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



MSY-TP SERIES



Indoor Unit

R32



MSY-TP35/50VF

Outdoor Unit

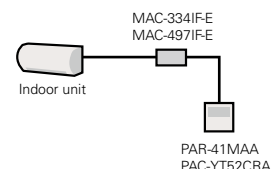
R32



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
Heating (Average Season) ⁽³⁾	Total Input	Rated	kW	0.760	1.450
	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	9.6
Indoor Unit	Input	Rated	kW	0.033	0.034
	Operating Current (Max)			A	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
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	-	-

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

MSZ-F SERIES

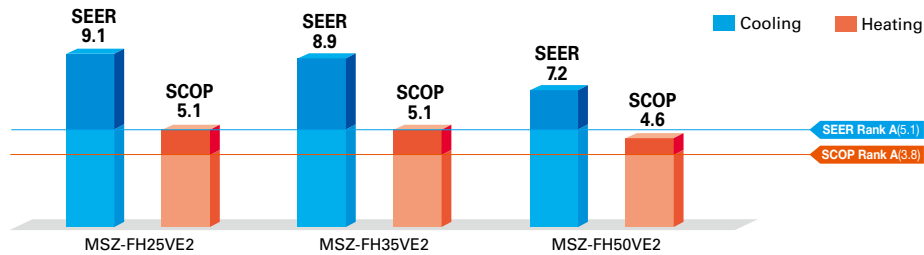


The F Series is designed for optimum cooling/heating performance as well as operational comfort. Quiet, energy-saving operation is supported by some of Mitsubishi Electric's latest technologies. Advanced functions such as "3D i-see Sensor" temperature control and the Plasma Quad air purification system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

Indirect Airflow

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



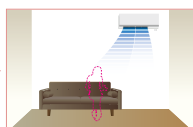
Direct Airflow

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

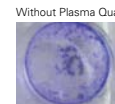
Test results have confirmed that Plasma Quad neutralizes 99% of bacteria in 115 minutes in a 25m³ test space.



<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	Outdoor Power supply 230/Single/50			
Cooling	Source			
	Outdoor (V / Phase / Hz)			
	Design load	kW	2.5	3.5
	Annual electricity consumption ⁽²⁾	kWh/a	96	138
	SEER ⁽⁴⁾		9.1	8.9
Heating	Energy efficiency class		A+++	A+++
	Capacity	kW	2.5	3.5
	Min-Max	kW	1.4-3.5	0.8-4.0
	Total Input	kW	0.485	0.820
	Rated	kW	0.485	0.820
Heating (Average Season) ⁽³⁾	Design load	kW	3.0(-10°C)	3.6(-10°C)
	Declared Capacity	kW	3.0(-10°C)	3.6(-10°C)
	at reference design temperature	kW	3.0(-10°C)	3.6(-10°C)
	at bivalent temperature	kW	3.0(-10°C)	3.6(-10°C)
	at operation limit temperature	kW	2.5(-15°C)	3.2(-15°C)
Back up heating capacity	Design load	kW	0.0(-10°C)	0.0(-10°C)
	Annual electricity consumption ⁽²⁾	kWh/a	819	986
	SEER ⁽⁴⁾		5.1	5.1
	Energy efficiency class		A+++	A+++
	Capacity	kW	3.2	4.0
Operating Current (Max)	Min-Max	kW	1.8-5.5	1.0-6.3
	Total Input	kW	0.580	0.800
	Rated	kW	0.580	0.800
	Input	kW	0.029	0.029
	Operating Current(Max)	A	0.4	0.4
Indoor Unit	Dimensions	H*W*D	305(+17)-925-234	305(+17)-925-234
	Weight	kg	13.5	13.5
	Air Volume	m³/min	3.9-4.7-6.3-8.6-11.6	3.9-4.7-6.3-8.6-11.6
	Sound Level (SPL)	dB(A)	20-23-29-36-42	21-24-29-36-42
	Sound Level (PWL)	dB(A)	58	58
Outdoor Unit	Dimensions	H*W*D	550-800-285	550-800-285
	Weight	kg	37	37
	Air Volume	m³/min	31.3	33.6
	Sound Level (SPL)	dB(A)	46	49
	Sound Level (PWL)	dB(A)	60	61
Ext. Piping	Operating Current (Max)	A	9.2	9.6
	Breaker Size	A	10	10
	Diameter	Liquid/Gas	6.35 / 9.52	6.35 / 9.52
	Max.Length	Out-In	20	20
	Max.Height	Out-In	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) 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 57-59 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

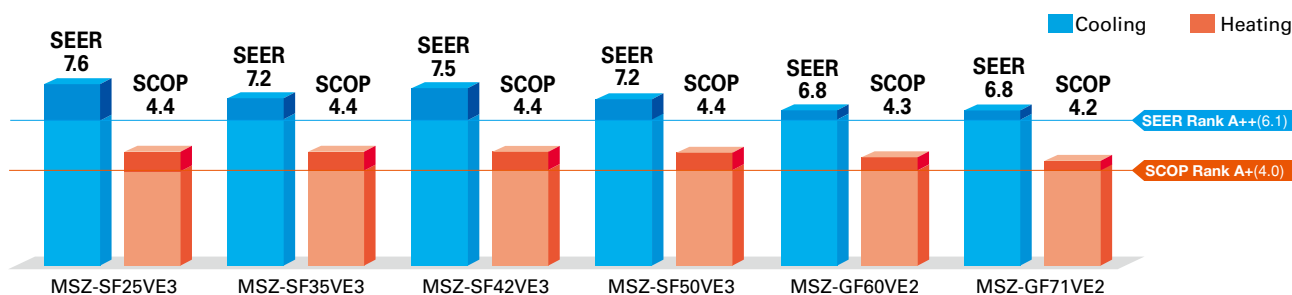
MSZ-GF60/71VE2



"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

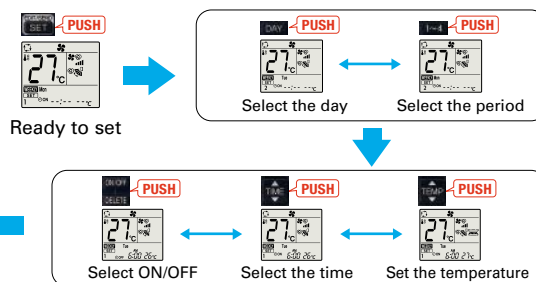
Pattern Settings: Input up to four settings for each day

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”

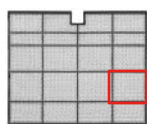
with
“Low standby power”



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)

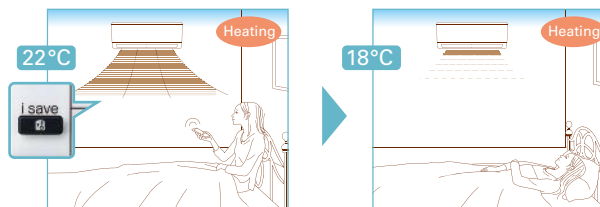


3D surface (Waved surface)

“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



MUZ-SF25/35/42VE MUZ-SF50VE

Heater Installed



MUZ-SF25/35/42VEH MUZ-SF50VEH

MSZ-S SERIES



Indoor Unit

R410A



GOOD DESIGN
AWARD 2014



MSZ-SF15/20VA

Outdoor Unit

For Multi 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	3.5
	Annual electricity consumption ⁽²⁾	kWh/a	-	-	116	116	171	171
	SEER ⁽⁴⁾		-	-	7.6	7.6	7.2	7.2
	Energy efficiency class		-	-	A++	A++	A++	A++
	Capacity	kW	-	-	2.5	2.5	3.5	3.5
	Min-Max	kW	-	-	0.9-3.4	0.9-3.4	1.1-3.8	1.1-3.8
Heating (Average Season) ⁽⁵⁾	Total Input	Rated	kW	-	0.600	0.600	1.080	1.080
	Design load	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)
	Declared Capacity	at reference design temperature	kW	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)
		at bivalent temperature	kW	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)
		at operation limit temperature	kW	-	2.0(-15°C)	1.6(-20°C)	2.2(-15°C)	1.6(-20°C)
	Back up heating capacity	kW	-	-	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)
Indoor Unit	Annual electricity consumption ⁽²⁾	kWh/a	-	-	764	790	923	948
	SCOP ⁽⁴⁾		-	-	4.4	4.3	4.4	4.3
	Energy efficiency class		-	-	A+	A+	A+	A+
	Capacity	Rated	kW	-	3.2	3.2	4.0	4.0
	Min-Max	kW	-	-	1.0-4.1	1.0-4.1	1.3-4.6	1.3-4.6
	Total Input	Rated	kW	-	0.780	0.780	1.030	1.030
Outdoor Unit	Operating Current (Max)	A	-	-	8.4	8.4	8.5	8.5
	Input	Rated	kW	0.017	0.019	0.024	0.024	0.027
	Operating Current(Max)	A	-	0.17	0.19	0.2	0.3	0.3
	Dimensions	H*W*D	mm	250-760-168	250-760-168	299-798-195	299-798-195	299-798-195
	Weight	kg	-	7.7	7.7	10	10	10
	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	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1
Ext. Piping		Heating	m ³ /min	3.7 - 4.4 - 5.0 - 6.0 - 6.8	3.7 - 4.4 - 5.0 - 6.0 - 7.3	3.0 - 4.1 - 6.7 - 8.2 - 10.3	3.0 - 4.1 - 6.7 - 8.2 - 10.3	3.0 - 4.1 - 6.7 - 8.3 - 11.0
	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	19 ⁽⁶⁾ - 24 - 30 - 36 - 42
		Heating	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 ⁽⁶⁾ - 24 - 34 - 39 - 45	19 ⁽⁶⁾ - 24 - 34 - 39 - 45	19 ⁽⁶⁾ - 24 - 34 - 40 - 46
	Sound Level (PWL)	Cooling	dB(A)	59	60	57	57	57
	Dimensions	H*W*D	mm	-	-	550-800-285	550-800-285	550-800-285
	Weight	kg	-	-	-	31	31	31
Guaranteed Operating Range (Outdoor)	Air Volume	Cooling	m ³ /min	-	-	31.1	35.9	35.9
		Heating	m ³ /min	-	-	30.7	35.9	35.9
	Sound Level (SPL)	Cooling	dB(A)	-	-	47	49	49
		Heating	dB(A)	-	-	48	50	50
	Sound Level (PWL)	Cooling	dB(A)	-	-	58	62	62
	Operating Current (Max)	A	-	-	8.2	8.2	8.2	8.2
Breaker Size	Breaker Size	A	-	-	10	10	10	10
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
	Max.Length	Out-In	m	-	-	20	20	20
		Out-In	m	-	-	12	12	12
	Max.Height	Out-In	m	-	-	-	-	-
	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 57-59 for heating (warmer season) specifications.

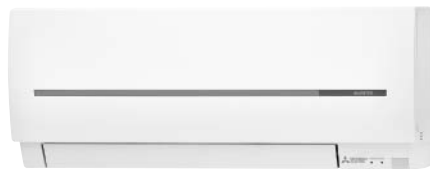
⁽⁶⁾ For single use: only 19dB(A). For multi use (MXZ): 21dB(A).

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 Supply			Outdoor Power 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 ⁽³⁾		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) ⁽³⁾	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							
Heating (Average Season) ⁽³⁾	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	3.4 (-15°C)	2.2 (-20°C)	3.4 (-15°C)	2.3 (-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	1215	1242	1351	1380	1489	2204
Operating Current (Max)	SCOP ⁽⁴⁾		4.4	4.3	4.4	4.3	4.3	4.2
	Energy efficiency class		A+	A+	A+	A+	A+	A+
	Rated	kW	5.4	5.4	5.8	5.8	6.8	8.1
	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
Indoor Unit	Input	A	9.5	9.5	12.3	12.3	14.5	16.6
	Operating Current (Max)	A	0.027	0.027	0.035	0.035	0.062	0.058
	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
	Air Volume							
Outdoor Unit	(SLo-Lo-Mid-Hi-SH) ⁽⁵⁾	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)	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
	(SLo-Lo-Mid-Hi-SH) ⁽⁵⁾	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
Ext. Piping	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	50.1
	Heating	m³/min	33.6	33.6	44.6	44.6	49.2	48.2
Guaranteed Operating Range (Outdoor)	Sound Level (SPL)	dB(A)	50	50	52	52	55	55
	Heating	dB(A)	51	51	52	52	55	55
	Sound Level (PWL)	dB(A)	63	63	65	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
Guaranteed Operating Range (Outdoor)	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
	Out-In	m	12	12	15	15	15	15
	Max.Height	Out-In	m	12	12	15	15	15
	Guaranteed Operating Range (Outdoor)							
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 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 57-59 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

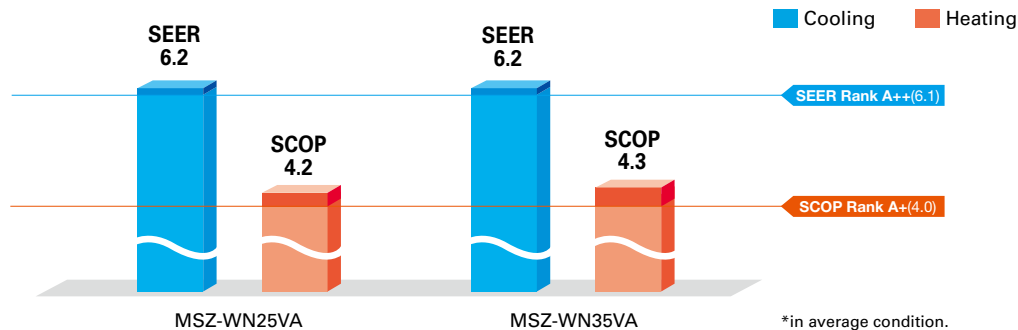
MSZ-WN25/35VA



Advanced Inverter Control – Efficient Operation All the Time



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

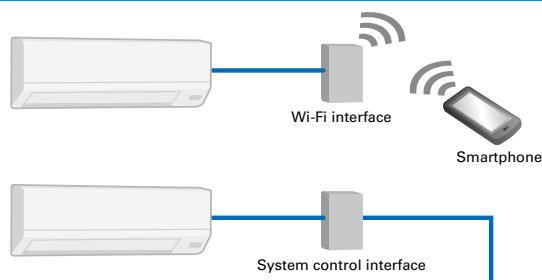
Wi-Fi Interface (Optional)

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)

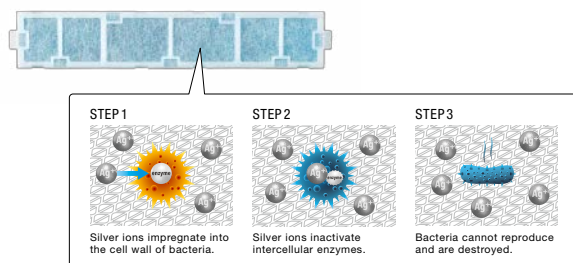
- Remote on/off operation is possible by input to the connector.
- Depending on the interface used, connecting a wired remote-control such as the PAR-41MAA is possible.
- Centralised control is possible when connected to M-NET.

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



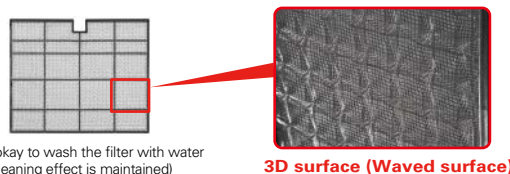
Silver-ionized Air Purifier Filter

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

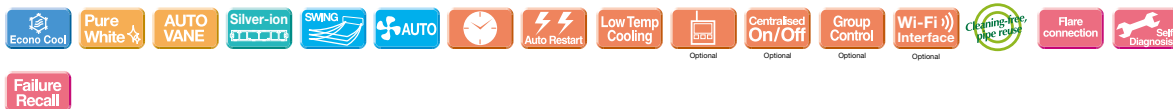
Outdoor Unit

R410A



MUZ-WN25/35VA

Remote Controller



Type				Inverter Heat Pump	
Indoor Unit				MSZ-WN25VA	
Outdoor Unit				MUZ-WN25VA	
Refrigerant				R410A ⁽¹⁾	
Power Supply	Source			Indoor Power 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
Heating (Average Season) ⁽³⁾	Total Input		Rated	kW	0.710
	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+	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
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
Outdoor Unit	Sound Level (PWL)		Cooling	dB(A)	57
	Dimensions		H*W*D	mm	538-699-249
	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
Operating Current (Max)			A	5.5	
Breaker Size			A	10	
Ext. Piping	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	-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) 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 57-59 for heating (warmer season) specifications.

MSZ-DM 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



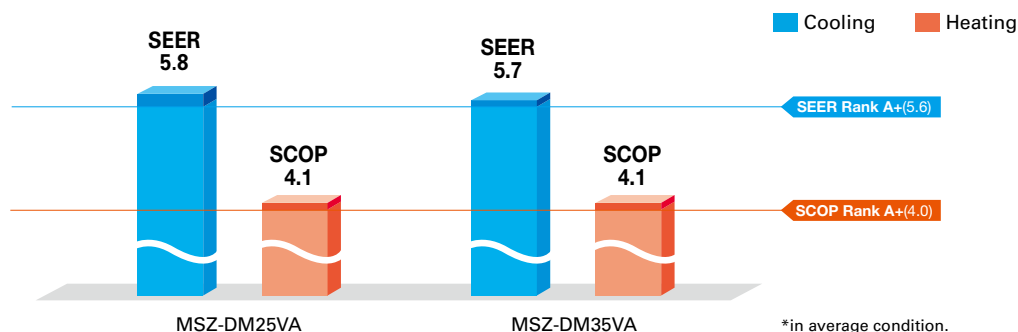
Advanced Inverter Control – Efficient Operation All the Time

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 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

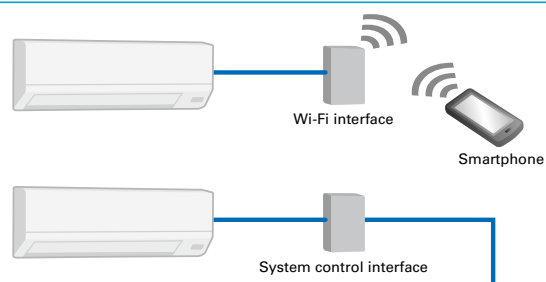
Wi-Fi Interface (Optional)

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)

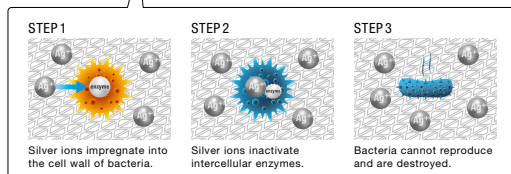
- Remote on/off operation is possible by input to the connector.
- Depending on the interface used, connecting a wired remote-control such as the PAR-41MAA is possible.
- Centralised control is possible when connected to M-NET.

*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.

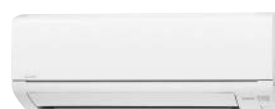


Compact Units

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-DM SERIES



Indoor Unit

R410A



MSZ-DM25/35VA

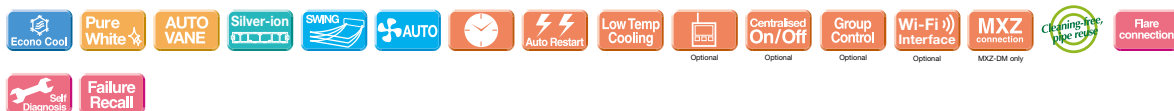
Outdoor Unit

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 Supply			Indoor Power supply 230V/Single/50Hz			
Source Outdoor (V / Phase / Hz)						
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	0.024
	Operating Current(Max)		A	0.3	0.3	
	Dimensions		H*W*D	mm	290-799-232	290-799-232
	Weight		kg	9	9	
	Air Volume	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-SH) ⁽⁷⁾	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	60
Outdoor Unit	Dimensions		H*W*D	mm	538-699-249	538-699-249
	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	64	
		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 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 57-59 for heating (warmer season) specifications.

MSZ-HJ 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

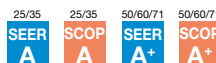


Stylish Design with Flat Panel Front

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



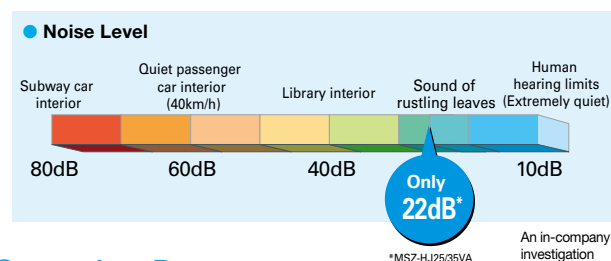
Advanced Inverter Control – Efficient Operation All the Time



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.



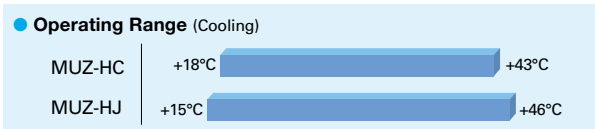
Long Piping Length

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



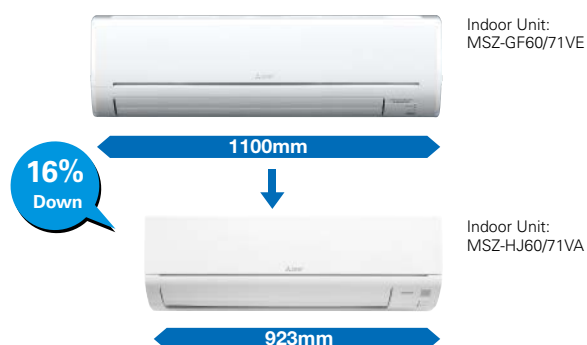
Only 799mm width

Outdoor Unit: MUZ-HJ25/35VA



Only 699mm width

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



MSZ-HJ 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	Source	Indoor Power supply				
	Outdoor (V / Phase / Hz)	230V/Single/50Hz				
Cooling	Design load	kW	2.5	3.1	5.0	7.1
	Annual electricity consumption ⁽²⁾	kWh/a	171	212	292	354
	SEER ⁽⁴⁾		5.1	5.1	6.0	6.0
	Energy efficiency class		A	A	A+	A+
	Capacity	kW	2.5	3.15	5.0	7.1
Heating	Min-Max	kW	1.3 - 3.0	1.4 - 3.5	1.3 - 5.0	1.7 - 7.1
	Total Input	kW	0.730	1.040	2.050	2.330
	Design load	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)
	Declared Capacity	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)
	at reference design temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)
	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)
Average Season ⁽³⁾	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	698	885	1267	1854
	SCOP ⁽⁴⁾		3.8	3.8	4.2	4.0
	Energy efficiency class		A	A	A+	A+
	Capacity	kW	3.15	3.6	5.4	6.8
Operating Current (Max)	Min-Max	kW	0.9 - 3.5	1.1 - 4.1	1.4 - 6.5	1.5 - 8.4
	Total Input	kW	0.870	0.995	1.480	2.440
	Operating Current (Max)	A	5.8	6.5	9.8	12.5
	Input	kW	0.020	0.024	0.037	0.055
	Operating Current (Max)	A	0.3	0.3	0.4	0.5
	Dimensions	H*W*D	290-799-232	290-799-232	290-799-232	305-923-250
Indoor Unit	Weight	kg	9	9	9	13
	Air Volume	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
	Sound Level (SPL)	dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 45	28 - 36 - 40 - 45	31 - 38 - 44 - 50
	Sound Level (PWL)	dB(A)	23 - 30 - 37 - 43	23 - 30 - 37 - 44	27 - 34 - 41 - 47	31 - 38 - 44 - 49
	Dimensions	H*W*D	538-699-249	538-699-249	550-800-285	880-840-330
	Weight	kg	24	25	36	55
Outdoor Unit	Air Volume	m³/min	31.5	31.5	36.3	47.9
	Sound Level (SPL)	dB(A)	50	50	51	55
	Sound Level (PWL)	dB(A)	63	64	64	66
	Operating Current (Max)	A	5.5	6.2	9.4	12.0
	Breaker Size	A	10	10	12	16
	Diameter	mm	6.35/9.52	6.35/9.52	6.35/12.7	9.52/15.88
Ext. Piping	Max.Length	m	20	20	20	30
	Max.Height	m	12	12	12	15
	Guaranteed Operating Range (Outdoor)	°C	+15 ~ +46	+15 ~ +46	+15 ~ +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.

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 57-59 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.

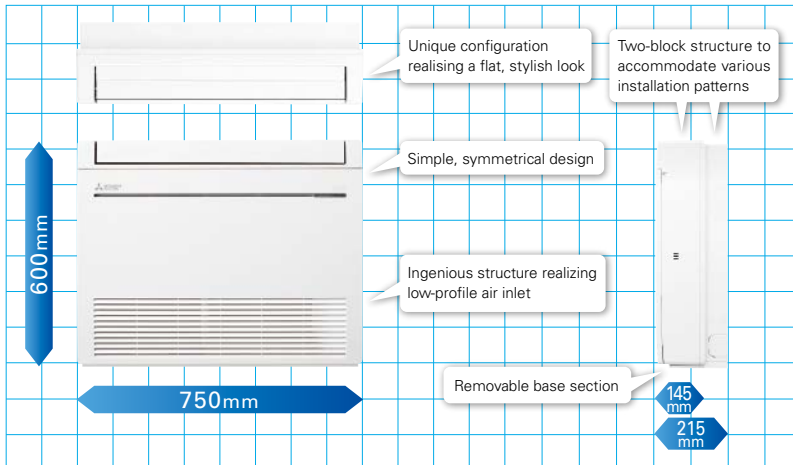
MFZ-KT25/35/50/60VG

R32

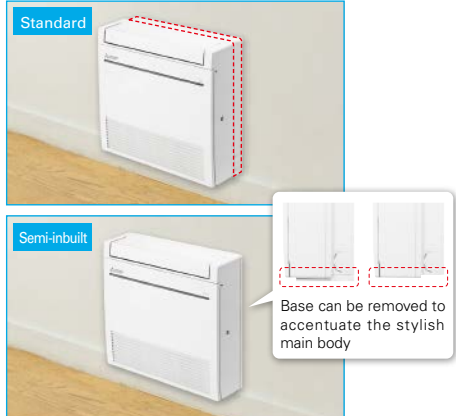


Simple, Flat Design

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



Images of installed unit



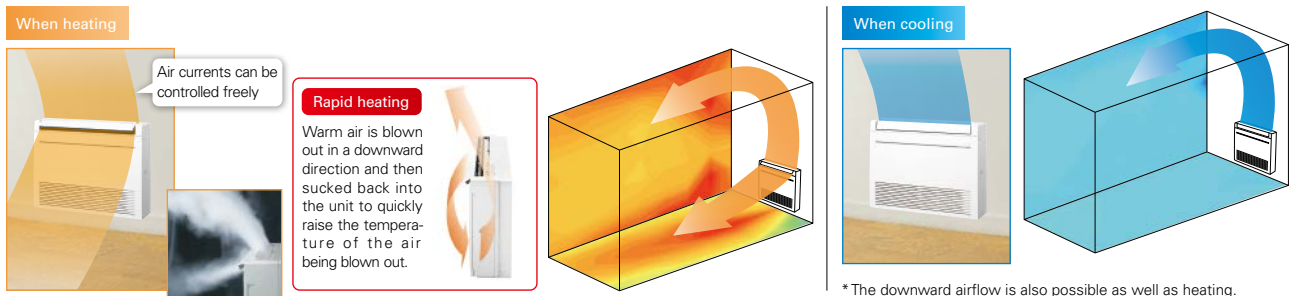
New Line-up

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.



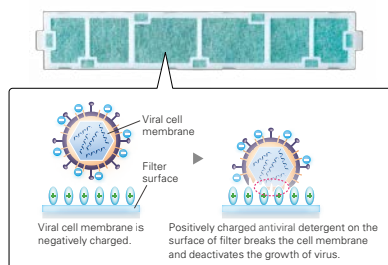
Weekly Timer (Introduced in response to market demand)

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



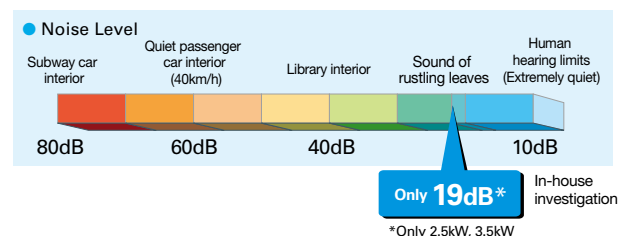
V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



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



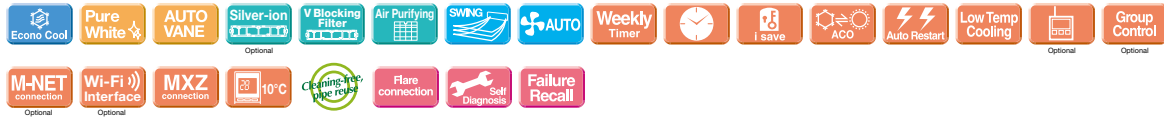
*optional



*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)	3.5 (-10°C)	4.1 (-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	0.20	0.45	0.55
	Dimensions	H*W*D	mm	600-750-215	600-750-215	600-750-215
	Weight	kg	14.5	14.5	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	3.9 - 4.8 - 6.5 - 7.8 - 8.9	5.6 - 6.7 - 8.6 - 10.4 - 12.3
		Heating	m³/min	3.5 - 4.0 - 5.6 - 7.3 - 9.7	3.5 - 4.0 - 5.6 - 7.3 - 9.7	6.0 - 7.7 - 9.4 - 11.6 - 14.0
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi ⁽³⁾)	Cooling	dB(A)	19 - 24 - 31 - 37 - 41	19 - 24 - 31 - 37 - 41	28 - 32 - 37 - 42 - 48
		Heating	dB(A)	19 - 23 - 30 - 37 - 44	19 - 23 - 30 - 37 - 44	29 - 35 - 40 - 44 - 49
	Sound Level (PWL)	Cooling	dB(A)	54	54	60
	Dimensions	H*W*D	mm	550-800-285	550-800-285	714-800-285
Outdoor Unit	Weight	kg	30	35	41	54
	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	15
	Breaker Size	A	10	10	16	16
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7
Ext. Piping	Max.Length	Out-In	m	20	20	30
	Max.Height	Out-In	m	12	12	30
	Guaranteed Operating Range	Cooling	°C	-10 ~ +46	-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.

MLZ-KP25/35/50VF

R32

MLZ-KY20VG



reddot award 2018
winner



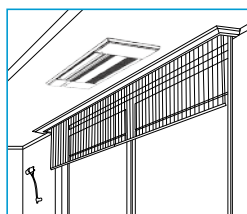
Slim Design KY KP

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



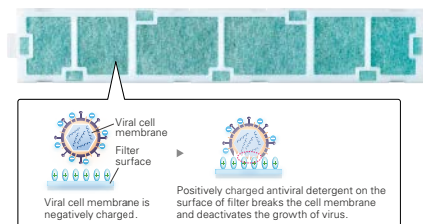
Ceiling Mounted KY KP

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 KY

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.



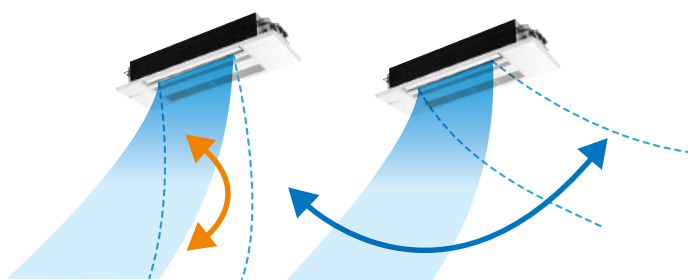
Set Airflow According to Ceiling Height KY KP

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.

	20	25	35	50
Standard	2.4m	2.4m	2.4m	2.4m
High ceiling	2.7m	2.7m	2.7m	2.7m

Auto Vane Control KY KP

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 KY KP

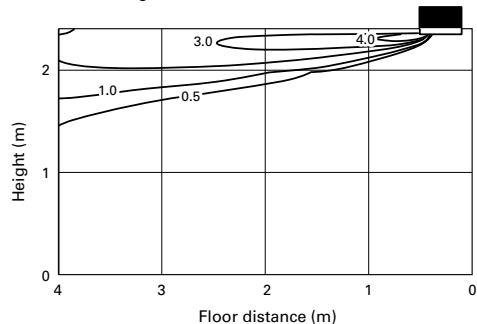
The new airflow control completely eliminates that uncomfortable drafty-feeling with the introduction of a horizontal airflow that spreads across the ceiling. The ideal airflow for offices and restaurants.

[Horizontal Airflow]

Model name: MLZ-KP35VF

Ceiling height: 2.4m

Model: Cooling



Weekly Timer Built-in Weekly Timer Function KY KP

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.

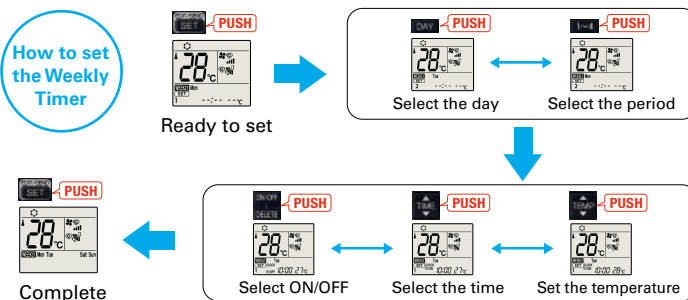
Easy set-up using dedicated buttons



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

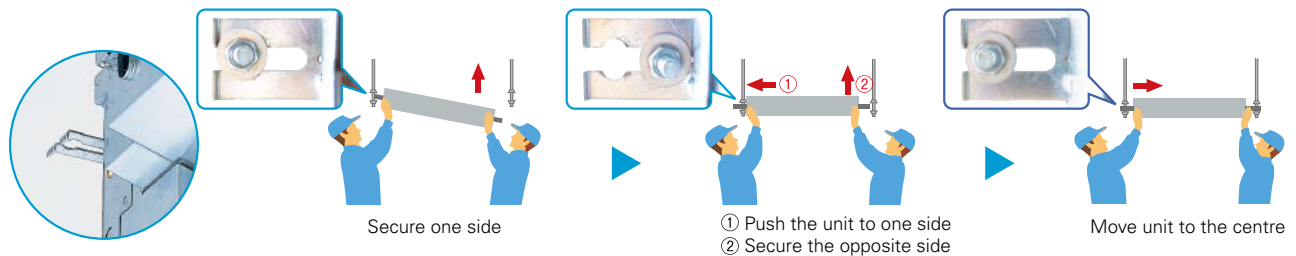


- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired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

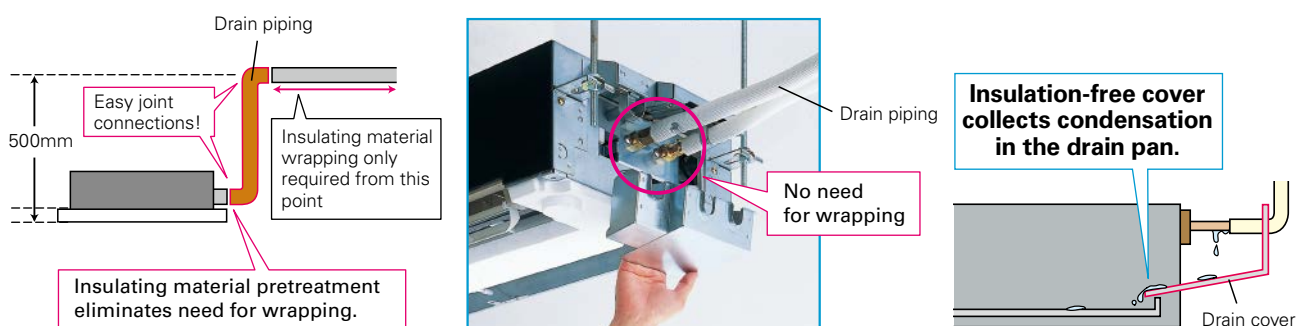
Easy Installation

Temporary hanging hook KY KP

Work efficiency has improved during installation.



Refrigerant Piping Supporters + Drain Cover KY KP



High Serviceability KY KP

No need to put off the panel even when the unit has some troubles to be checked inside. Simply open the panel to see the inside of the unit.



Wi-Fi Space

There is space inside the panel for a Wi-Fi interface.

* This image is for MLZ-KY

MLZ SERIES



Indoor Unit R32



MLZ-KP25/35/50VF

R32



MLZ-KY20VG

Panel

MLP-444W

MLP-448W

Outdoor Unit



SUZ-M25/35VA



SUZ-M50VA

For Multi Connection Only

Remote Controller



Built in
MLZ-KP/KY



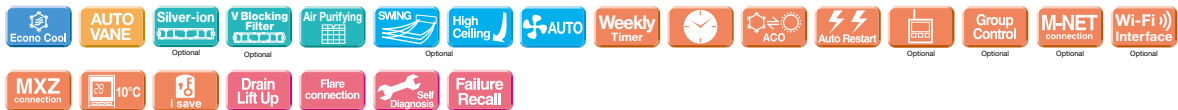
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*optional



*optional



Type	Inverter Heat Pump			
Indoor Unit	MLZ-KP25VF	MLZ-KP35VF	MLZ-KP50VF	MLZ-KY20VG
Outdoor Unit	SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	For Multi connection only
Refrigerant	R32 ⁽¹⁾			
Power Supply	230V / Single / 50Hz			
Cooling	Source Outdoor (V / Phase / Hz)	230V / Single / 50Hz		
	Design load	kW	2.5	5.0
	Annual electricity consumption ⁽²⁾	kWh/a	141	260
	SEER ^{(4), (5)}		6.2	6.7
	Energy efficiency class		A++	A++
	Capacity	kW	2.5	5.0
	Min-Max	kW	1.4 - 3.2	1.7 - 5.6
Heating (Average Season)	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)
	at reference design temperature	kW	2.0 (-7°C)	3.8 (-7°C)
	at operation limit temperature	kW	2.0 (-10°C)	3.8 (-10°C)
	Back up heating capacity	kW	0.2	0.5
	Annual electricity consumption ⁽²⁾	kWh/a	697	1397
Operating	SCOP ^{(4), (5)}		4.4	4.3
	Energy efficiency class		A+	A+
	Capacity	kW	3.2	4.1
	Min-Max	kW	1.4 - 4.2	1.7 - 7.2
	Total Input	kW	0.80	1.86
	Operating Current (Max)	A	7.2	13.9
	Input	kW	0.04	0.04
Indoor Unit	Operating Current(Max)	A	0.40	0.12
	Dimensions	H*W*D	185-1102-360	194-842-301
	Weight	kg	15.5	14
	Air Volume (SLo-Le-Mid-Hi ⁽³⁾)	m³/min	6.0-7.2-8.0-8.8	4.3-4.7-5.2-5.6
	Sound Level (SPL) (SLo-Le-Mid-Hi ⁽³⁾)	dB(A)	27-31-34-38	30-32-34-37
	Sound Level (PWL) (SLo-Le-Mid-Hi ⁽³⁾)	dB(A)	26-27-34-37	29-32-35-58
	Sound Level (PWL)	dB(A)	52	40-42-44-50
Panel	Dimensions	H*W*D	24-1200-424	34-915-370
	Weight	kg	3.5	3.8
	Dimensions	H*W*D	550-800-285	550-800-285
	Weight	kg	30	41
	Air Volume	m³/min	36.3	45.8
	Sound Level (SPL)	dB(A)	34.6	43.7
	Sound Level (PWL)	dB(A)	45	48
Outdoor Unit	Sound Level (SPL)	dB(A)	46	49
	Sound Level (PWL)	dB(A)	59	64
	Operating Current (Max)	A	6.8	13.5
	Breaker Size	A	10	20
	Diameter	Liquid/Gas	6.35/9.52	6.35/12.7
	Max.Length	Out-In	20	30
	Max.Height	Out-In	12	30
Ext. Piping	Guaranteed Operating Range (Outdoor)	°C	-10~+46	-15~+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, 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) The GWP of R410A is 2088 in the IPCC 4th Assessment Report. The GWP of R410A is 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) 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
	Energy efficiency class		A+++	A+++	A+++
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
	Energy efficiency class		A+	A+	A

Type			Inverter Heat Pump						
Indoor Unit			MSZ-LN25VG2		MSZ-LN35VG2		MSZ-LN50VG2		MSZ-LN60VG2
Outdoor Unit			MUZ-LN25VG2	MUZ-LN25VGHZ2	MUZ-LN35VG2	MUZ-LN35VGHZ2	MUZ-LN50VG2	MUZ-LN50VGHZ	MUZ-LN60VG
Refrigerant			R32 ^(*)						
Cooling	Design load	kW	2.5	2.5	3.5	3.5	5	5.0	6.1
	Annual electricity consumption ^(*)	kWh/a	83	83	129	130	205	230	285
	SEER		10.5	10.5	9.5	9.4	8.5	7.6	7.5
	Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A++	A++
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)	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)	3.3 (2°C)
		at bivalent temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)
		at operation limit temperature	kW	2.5 (-15°C)	2.3 (-25°C)	3.2 (-15°C)	3.1 (-25°C)	4.2 (-15°C)	4.7 (-25°C)
	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 ^(*)	kWh/a	369	382	431	467	602	779	779
	SCOP		6.4	6.6	6.5	6.5	5.8	5.9	5.9
	Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++	A+++
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)	—	5.1 (-22°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	—	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	—
	Energy efficiency class		—	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
	Energy efficiency class		A+++	A+++	A+++
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
	Energy efficiency class		A	A	B

Type			Inverter Heat Pump							
Indoor Unit			MSZ-AY25VGK(P)	MSZ-AY25VGK(P)	MSZ-AY35VGK(P)	MSZ-AY35VGK(P)	MSZ-AY42VGK(P)	MSZ-AY42VGK(P)	MSZ-AY50VGK(P)	MSZ-AY50VGK(P)
Outdoor Unit			MUZ-AY25VG	MUZ-AY25VGH	MUZ-AY35VG	MUZ-AY35VGH	MUZ-AY42VG	MUZ-AY42VGH	MUZ-AY50VG	MUZ-AY50VGH
Refrigerant			R32 ^(*)							
Cooling	Design load	kW	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0
	Annual electricity consumption ^(*)	kWh/a	100	100	141	141	186	186	232	232
	SEER ^(*)		8.7	8.7	8.7	8.7	7.9	7.9	7.5	7.5
	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)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (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)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
		at operation limit temperature	kW	1.9 (-20°C)	1.9 (-20°C)	2.0 (-20°C)	2.0 (-20°C)	2.7 (-20°C)	3.0 (-20°C)	3.0 (-20°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 ^(*)	kWh/a	319	319	376	376	495	495	523	523
	SCOP		5.7	5.7	5.9	5.9	5.9	5.9	6.1	6.1
	Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++

Type			Inverter Heat Pump				
Indoor Unit			MSZ-AP15VG	MSZ-AP20VG	MSZ-AP60VG(K)	MSZ-AP71VG(K)	
Outdoor Unit			MUZ-AP15VG	MUZ-AP20VG	MUZ-AP60VG	MUZ-AP71VG	
Refrigerant			R32 ^(*)				
Cooling	Design load		kW	1.5	2.0	6.1	7.1
	Annual electricity consumption ^(*)		kWh/a	72	81	288	345
	SEER			7.2	8.6	7.4	7.2
	Energy efficiency class			A++	A+++	A++	A++
Heating (Warmer Season)	Design load		kW	0.9 (2°C)	1.3 (2°C)	2.5 (2°C)	3.7 (2°C)
	Declared Capacity	at reference design temperature	kW	0.9 (2°C)	1.3 (2°C)	2.5 (2°C)	3.7 (2°C)
		at bi-valent temperature	kW	0.9 (2°C)	1.3 (2°C)	2.5 (2°C)	3.7 (2°C)
		at operation limit temperature	kW	1.6 (-15°C)	2.2 (-15°C)	3.7 (-15°C)	5.4 (-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 ^(*)		kWh/a	265	350	627	891
	SCOP			4.7	5.2	5.5	5.8
	Energy efficiency class			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
	Annual electricity consumption ^(*)	kWh/a	96	96	139	139	186
	SEER		9.1	9.1	8.8	8.8	7.9
	Energy efficiency class		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)
	Declared Capacity	at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)
		at bi-valent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)
		at operation limit temperature	kW	2.0 (-15°C)	2.0 (-15°C)	2.4 (-15°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)
	Annual electricity consumption ^(*)	kWh/a	311	311	398	398	489
	SCOP		5.9	5.9	5.6	5.6	6.0
		Energy efficiency class	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 ^(*)		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)	2.1 (2°C)
		at bi-valent temperature	kW	0.9 (2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
		at operation limit temperature	kW	1.3 (-15°C)	1.7 (-15°C)	2.1 (-15°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)
	Annual electricity consumption ^(*)		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	7.1
	Annual electricity consumption ^(*)	kWh/a	141	191	226	269	355
	SEER		6.2	6.2	6.5	6.5	7.2
	Energy efficiency class		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)	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)
		at bi-valent temperature	kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)
		at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-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)
	Annual electricity consumption ^(*)	kWh/a	289	344	427	558	802
	SCOP		5.3	5.2	5.2	5.2	5.4
		Energy efficiency class	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 ^(*)		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)	2.1 (2°C)
		at bi-valent temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
		at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption ^(*)		kWh/a	287	351	508
	SCOP			5.3	5.1	5.3
Energy efficiency class			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.

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

(*) 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-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+++

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)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
		at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (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-DM35VA
Outdoor Unit			MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA	MUZ-HJ60VA	MUZ-HJ71VA	MUZ-DM35VA
Refrigerant			R410A ^(*)					
Cooling	Design load	kW	2.5	3.1	5.0	6.1	7.1	3.1
	Annual electricity consumption ⁽²⁾	kWh/a	171	212	292	354	441	190
	SEER		5.1	5.1	6.0	6.0	5.6	5.7
	Energy efficiency class		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)	1.3 (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)	1.1 (2°C)
		at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	2.5 (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)	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)
	Annual electricity consumption ⁽²⁾	kWh/a	356	426	539	674	813	386
	SCOP		4.3	4.3	5.5	5.1	4.9	4.7
	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.




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.																																																				
<div style="text-align: center;">  </div> <p>Units without Remote Controller SLZ-M15FA2 (Multi split series connection only) SLZ-M25FA2 SLZ-M35FA2 SLZ-M50FA2 SLZ-M60FA2</p> <p>Panel</p> <table border="1"> <thead> <tr> <th>Panel</th> <th>With Signal Receiver</th> <th>With 3D i-see Sensor</th> <th>With Wireless Remote Controller</th> <th>With Plasma Quad Connect</th> </tr> </thead> <tbody> <tr> <td>SLP-2FA</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SLP-2FAL</td> <td>✓</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SLP-2FAE</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>SLP-2FALE</td> <td>✓</td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>SLP-2FALM2</td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>SLP-2FALME2</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> </tr> <tr> <td>SLP-2FAP</td> <td></td> <td></td> <td></td> <td>✓</td> </tr> <tr> <td>SLP-2FALP</td> <td>✓</td> <td></td> <td></td> <td>✓</td> </tr> <tr> <td>SLP-2FALMP2</td> <td>✓</td> <td></td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Plasma Quad Connect	SLP-2FA					SLP-2FAL	✓				SLP-2FAE		✓			SLP-2FALE	✓	✓			SLP-2FALM2	✓		✓		SLP-2FALME2	✓	✓	✓		SLP-2FAP				✓	SLP-2FALP	✓			✓	SLP-2FALMP2	✓		✓	✓	<div style="text-align: center;">  </div> <p>Units without Remote Controller SEZ-M25DA2 SEZ-M35DA2 SEZ-M50DA2 SEZ-M60DA2 SEZ-M71DA2</p> <p>Units with Wireless Remote Controller SEZ-M25DAL2 SEZ-M35DAL2 SEZ-M50DAL2 SEZ-M60DAL2 SEZ-M71DAL2</p>	<div style="text-align: center;">  </div> <p>Units without Remote Controller SFZ-M25VA SFZ-M35VA SFZ-M50VA SFZ-M60VA SFZ-M71VA</p>
Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Plasma Quad Connect																																																
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SLP-2FALM2	✓		✓																																																	
SLP-2FALME2	✓	✓	✓																																																	
SLP-2FAP				✓																																																
SLP-2FALP	✓			✓																																																
SLP-2FALMP2	✓		✓	✓																																																

SELECT OUTDOOR UNIT		
There is one outdoor unit for respective indoor units.		
<div>  <p>SUZ-M25/35VA</p> </div>	<div>  <p>SUZ-M50VA</p> </div>	<div>  <p>SUZ-M60/71VA</p> </div>
<div>  <p>SUZ-KA25/35VA6</p> </div>	<div>  <p>SUZ-KA50/60/71VA6</p> </div>	

*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

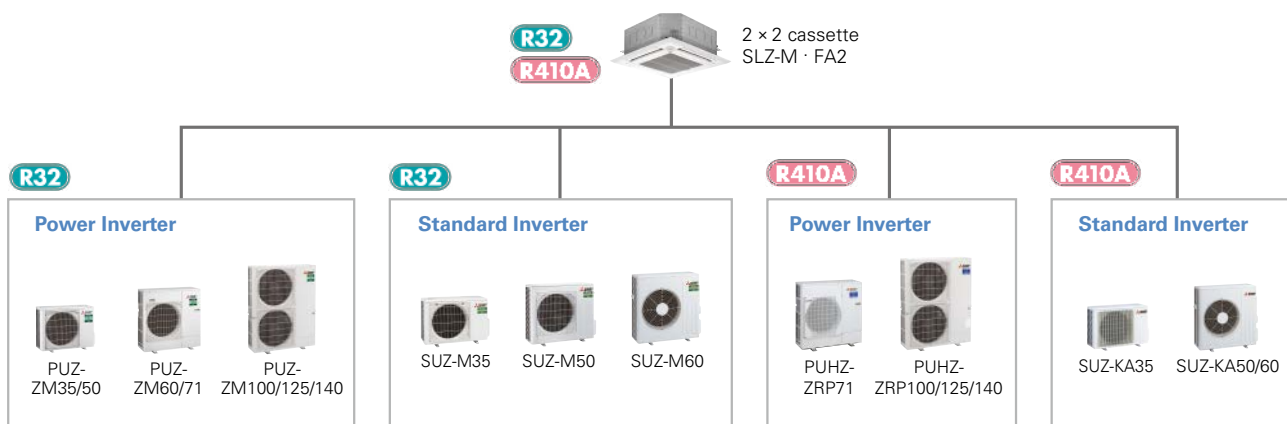
R32

R410A



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.



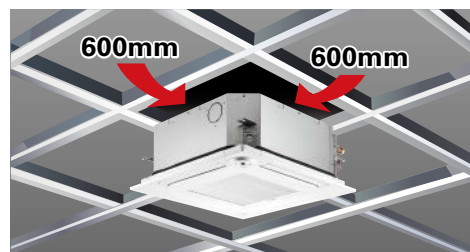
New lineup

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	✓	✓	✓	✓	✓

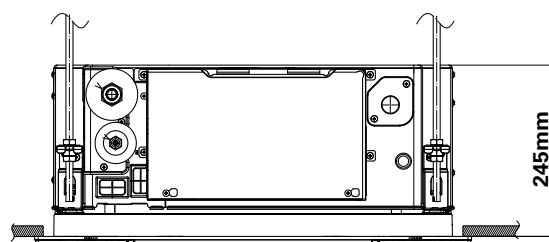
Beautiful design

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

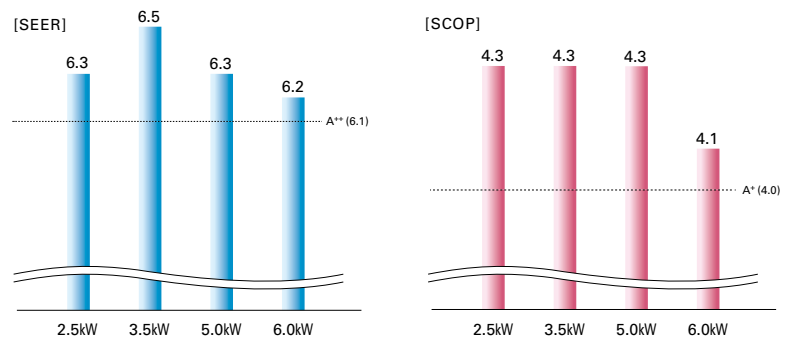
The height above ceiling of 245mm enables fitting into narrow ceiling space. Installation is simple, even when the ceiling spaces are narrow to make the ceilings higher. Of course, in addition to our products, replacing competitors' product is simplified too.



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 move comfortable room condition.



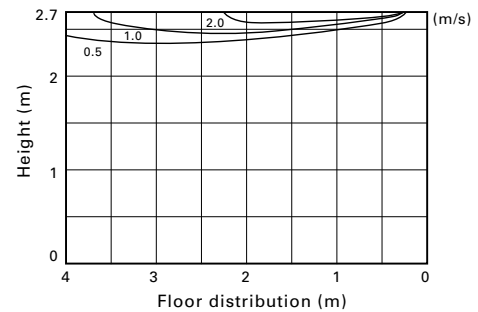
Horizontal Airflow

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

[Airflow distribution]*

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

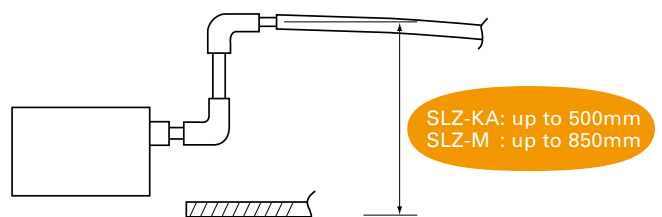


■ Control box cover



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.

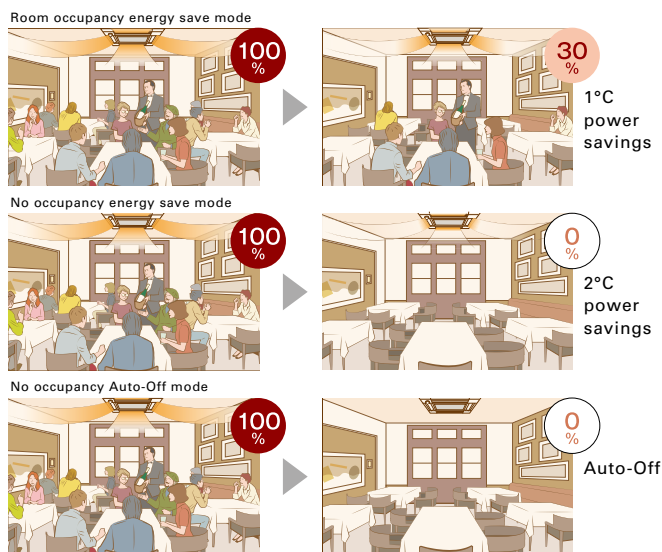
No occupancy energy-saving mode

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.

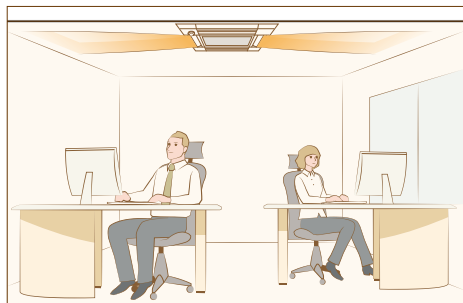


*PAR-41MAA is required for each setting

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.

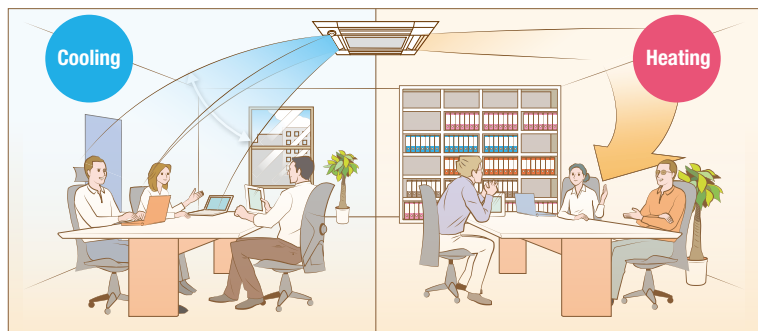
Seasonal airflow*

<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.

Connectable to Plasma Quad Connect

The optional Plasma Quad Connect SLP-2FAP, SLP-2FALP, SLP-2FALMP2 can be installed on the indoor units.*1*2*3

*1 Plasma Quad Connect cannot be used with PAC-SK54/46KF-E (V blocking filter).

*2 If Plasma Quad Connect is used with MAC-334/397/587IF-E (Interface), Plasma Quad Connect use the indoor units CN105. Other interface use the another CN105 on Plasma Quad Connect's PCB.

*3 If Plasma Quad Connect is used with PAC-SK35VK-E (Valve kit) or PAC-SK39AP-E (Valve kit attachment), Plasma Quad Connect use the indoor units barring holes for valve kit. Valve kit needs to be installed on suspension bolts or on horizontal surface using dedicated attachment optional parts.



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	With Plasma Quad Connect
SLP-2FA				
SLP-2FAL	✓			
SLP-2FAE		✓		
SLP-2FALE	✓	✓		
SLP-2FALM2	✓		✓	
SLP-2FALME2	✓	✓	✓	
SLP-2FAP				✓
SLP-2FALP	✓			✓
SLP-2FALMP2	✓		✓	✓

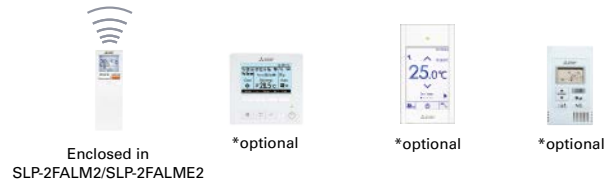
Outdoor Unit

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)		35×1	50×1	60×1	-	-	-	-	35×2	50×2	60×2	35×3	50×3	50×3	35×4	35×4
	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	Source			Outdoor power supply			
Cooling	Outdoor(V/Phase/Hz)			230/Single/50			
	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	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
Heating			Energy efficiency class	A++	A++		A++
	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	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		19.4	
Indoor Unit	Input [cooling / Heating]		Rated	kW	0.02 / 0.02		0.04 / 0.04
	Operating Current(Max)		A	0.24		0.43	
	Dimensions		H*W*D	mm	245-570-570 <10-625-625>		245-570-570 <10-625-625>
	Weight		kg	15 <3>		15 <3>	
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min	6.5-8.0-9.5		7.5-11.5-13.0	
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)	25-30-34		32-40-43	
	Sound Level (PWL)		dB(A)	51		60	
	Sound Level (PWL)		dB(A)	65		67	
Outdoor Unit	Dimensions		H*W*D	mm	630-809-300		943-950-330(+25)
	Weight		kg	46		67	
	Air Volume	Cooling	m³/min	45		55	
		Heating	m³/min	45		55	
	Sound Level (SPL)	Cooling	dB(A)	44		47	
		Heating	dB(A)	46		49	
	Sound Level (PWL)	Cooling	dB(A)	65		67	
		Heating	dB(A)	65		67	
Ext.Piping	Operating Current(Max)		A	13		19	
	Breaker Size		A	16		25	
	Diameter ⁽³⁾		mm	6.35 / 12.7		9.52 / 15.88	
	Max.Length		m	50		55	
Max.Height			m	30		30	
Guaranteed Operating Range (Outdoor)			Cooling ⁽³⁾	°C	-15 ~ +46		-15 ~ +46
			Heating	°C	-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

R32
R410A



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

Panel

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Plasma Quad Connect
SLP-2FA				
SLP-2FAL	✓			
SLP-2FAE		✓		
SLP-2FALE	✓	✓		
SLP-2FALM2	✓		✓	
SLP-2FALME2	✓	✓	✓	
SLP-2FAP				✓
SLP-2FALP	✓			✓
SLP-2FALMP2	✓		✓	✓

Outdoor Unit

For Single

R32



SUZ-M25/35VA

R32



SUZ-M50VA

R32



SUZ-M60VA

Remote Controller



Enclosed in SLP-2FALM/SLP-2FALME



*optional



*optional



*optional



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 Cooling	Source	Outdoor power supply					
	Outdoor(V/Phase/Hz)	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++
Heating	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	7.0	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
	Heating	m³/min	34.6	32.7	43.7	50.1	
Outdoor Unit	Sound Level (SPL)	Cooling	dB(A)	45	48	48	49
		Heating	dB(A)	46	48	49	51
	Sound Level (PWL)	Cooling	dB(A)	59	59	64	65
		Heating	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
	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	-15 ~ +46
Heating		°C	-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 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	With Plasma Quad Connect
SLP-2FA				
SLP-2FAL	✓			
SLP-2FAE		✓		
SLP-2FALE	✓	✓		
SLP-2FALM2	✓		✓	
SLP-2FALME2	✓	✓	✓	
SLP-2FAP				✓
SLP-2FALP	✓			✓
SLP-2FALMP2	✓		✓	✓

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	125	140
Power Inverter (PUZ-ZM)	25x1	35x1	50x1	60x1	-	-	-	-	35x2	50x2	60x2	35x3	50x3	50x3	35x4	35x4
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	Outdoor power supply															
Cooling	Source 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++			
	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+				
Operating Current(Max)			A	7.2				8.4				12.3				
Indoor Unit	Input [cooling / Heating]	Rated	kW	0.02 / 0.02				0.02 / 0.02				0.03 / 0.03				
	Operating Current(Max)		A	0.20				0.24				0.32				
	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	6.5-7.5-8.5				6.5-8.0-9.5				7.0-9.0-11.5				
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)	25-28-31				25-30-34				27-34-39				
	Sound Level (PWL)		dB(A)	48				51				56				
	Dimensions	H*W*D	mm	550-800-285				550-800-285				880-840-330				
	Weight		kg	30				35				50				
	Outdoor Unit	Air Volume	Cooling	m³/min	32.6				36.3				44.6			
Heating			m³/min	34.7				34.8				44.6				
Sound Level (SPL)		Cooling	dB(A)	47				49				52				
		Heating	dB(A)	48				50				52				
Sound Level (PWL)		Cooling	dB(A)	58				62				65				
		Heating	dB(A)	7				8.2				12				
Operating Current(Max)			A	7				8.2				12				
Breaker Size			A	10				10				20				
Ext.Piping Diameter ⁽³⁾		Liquid/Gas	mm	6.35 / 9.52				6.35 / 9.52				6.35 / 12.7				
Guaranteed Operating Range (Outdoor)		Max.Length	Out-In	m	20				20				30			
	Max.Height	Out-In	m	12				12				30				
	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.

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



35/50
SEER
A++
Power Inverter

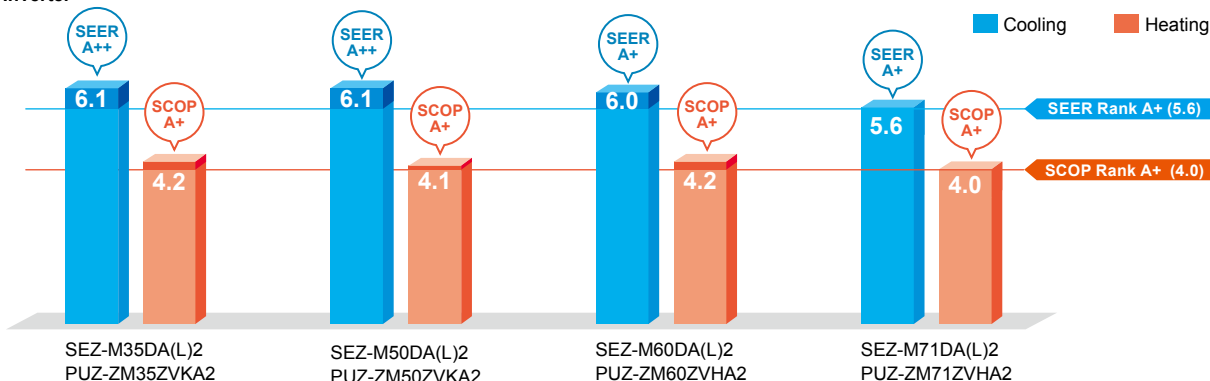
SCOP
A+
Standard Inverter

25/35/50
SEER
A+
Standard Inverter

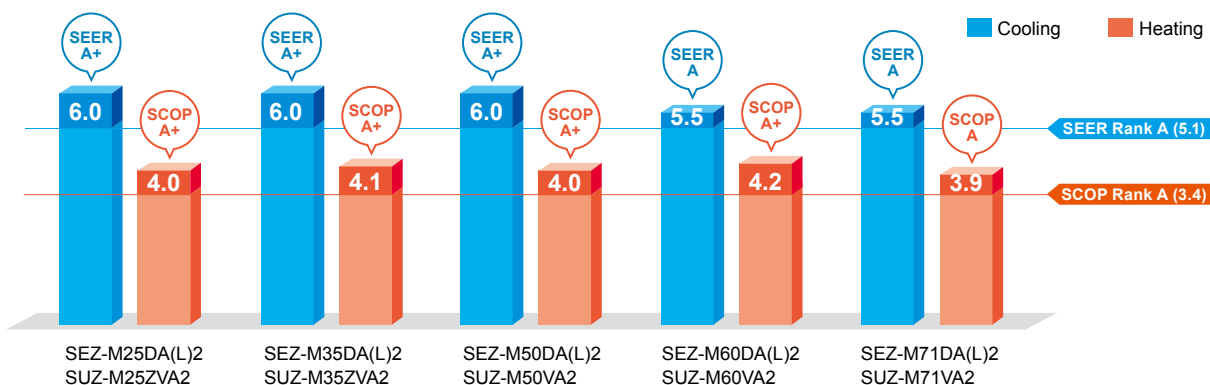
25/35/50/60
SCOP
A+
Standard Inverter

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

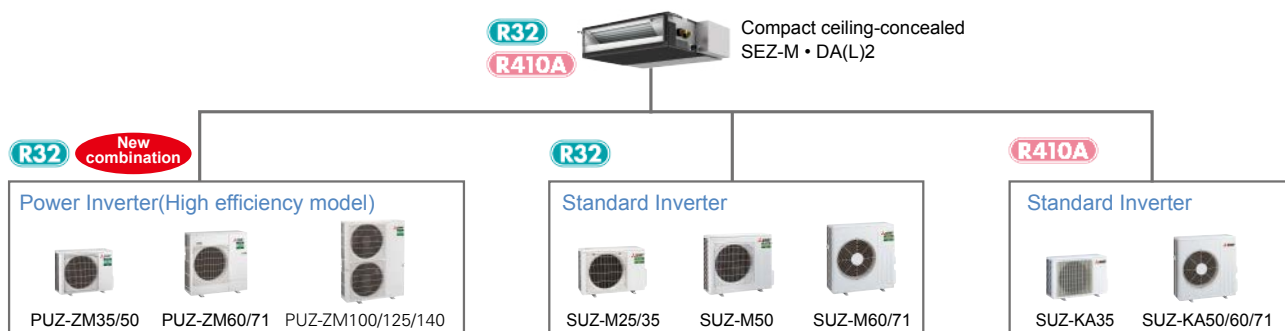


Standard Inverter (R32)



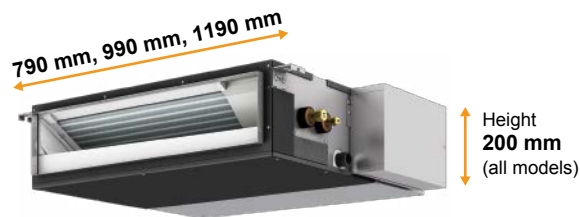
Lineup of compatible outdoor unit has been expanded by power inverter series

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

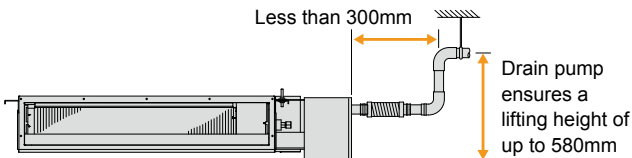
External static pressure can be selected from 5, 25, 35, and 50 Pa (set to 25 Pa at the time of factory shipment).

Four levels Available for All Models

Drain Pump (Optional)

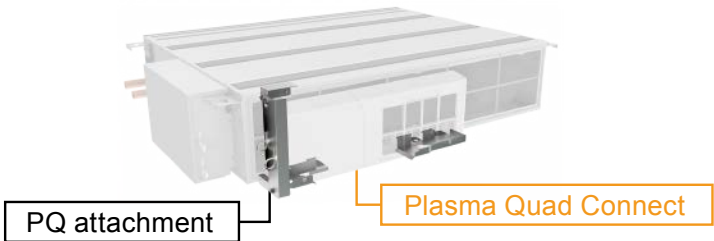
The PAC-KE07DM-E drain pump is available as an option. The drain connection can be raised as high as 580 mm, allowing more freedom in piping layout design.

*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)



PUZ-ZM35/50



PUZ-ZM60/71



PUZ-ZM71



PUZ-ZM100/125/140

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							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-1111R2-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 ^(*)			R32			
Power Supply			Outdoor power supply			
Cooling			230/Single/50			
Cooling	Source					
	Outdoor(V/Phase/Hz)					
	Capacity	Rated	kW	3.6	5.0	6.1
		Min-Max	kW	1.6 - 3.9	2.3 - 5.6	2.7 - 6.3
	Total Input	Rated	kW	0.857	1.315	1.525
	EER ^(*)			4.20	3.80	4.00
	Design load		kW	3.6	5.0	6.1
	Annual electricity consumption ^(*)		kWh/a	205	287	352
	SEER ^(*)			6.1	6.1	6.0
	SEER ^(*)			6.1	6.1	6.0
Heating	Energy efficiency class			A++	A++	A+
	Capacity	Rated	kW	4.1	6.0	7.0
		Min-Max	kW	1.6 - 5.0	2.5 - 7.2	2.8 - 8.0
	Total Input	Rated	kW	1.025	1.578	1.707
	COP ^(*)			4.00	3.80	4.10
	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)	4.2 (-20°C)
	Back up heating capacity		kW	0.0	0.0	0.0
Operating Current(Max)	Annual electricity consumption ^(*)		kWh/a	791	1279	1464
	SCOP ^(*)			4.2	4.1	4.2
	Energy efficiency class			A+	A+	A+
	Operating Current(Max)		A	13.7	13.8	19.9
	Input [cooling / Heating]	Rated	kW	0.047	0.077	0.084
	Operating Current(Max)		A	0.65	0.82	0.88
	Dimensions	H*W*D	mm	200 - 990 - 700	200 - 990 - 700	200 - 1190 - 700
	Weight		kg	22	22	25.5
	Air Volume (Lo-Mid-Hi)		m³/min	7 - 9 - 11	10 - 12.5 - 15	12 - 15 - 18
	External Static Pressure ^(*)		Pa	<5> - 25 - <35> - <50>	<5> - 25 - <35> - <50>	<5> - 25 - <35> - <50>
Outdoor Unit	Sound Level (Lo-Mid-Hi) (SPL)	Rated	dB(A)	23 - 27 - 31	30 - 34 - 37	30 - 34 - 38
		5Pa ^(*)	dB(A)	22 - 26 - 30	29 - 33 - 36	29 - 33 - 37
	Sound Level (PWL)		dB(A)	51	57	58
	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
Ext.Piping	Operating Current(Max)		A	13	13	19
	Breaker Size		A	16	16	25
	Diameter ^(*)	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 ^(*)	°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 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 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-M25VA		SUZ-M35VA		SUZ-M50VA		SUZ-M60VA		SUZ-M71VA	
Refrigerant ^(*)				R32									
Power Supply				Outdoor power supply									
Source				230/Single/50									
Cooling	Outdoor(V/Phase/Hz)												
	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 ^(*)			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		
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		
Operating Current(Max)				A		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 - 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	
	Outdoor Unit	Dimensions	H*W*D	mm	550-800-285		550-800-285		714-800-285		880-840-330		880-840-330
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	
			Heating	°C	-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 ^(*)			R410A					
Power Supply	Source		Outdoor power supply					
Cooling	Outdoor(V/Phase/Hz)		230/Single/50					
Heating	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 ^(*)	Rated		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 ^(*)		kWh/a	159	203	297	353	449
	SEER ^(*)			5.5	6.0	6.0	5.5	5.5
	Energy efficiency class			A	A+	A+	A	A
	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
Cooling	Total Input	Rated	kW	0.803	1.132	1.800	2.200	2.268
	COP ^(*)	Rated		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)	4.8 (-7°C)	5.3 (-7°C)
		at operation limit temperature	kW	1.9 (-10°C)	2.5 (-10°C)	4.1 (-10°C)	4.5 (-10°C)	5.3 (-10°C)
	Back up heating capacity		kW	0.3	0.3	0.5	1.0	0.7
	Annual electricity consumption ^(*)		kWh/a	789	977	1614	1857	2147
	SCOP ^(*)			3.9	4.0	3.9	4.1	3.9
	Energy efficiency class			A	A+	A	A+	A
Operating Current(Max)			A	7.6	8.9	12.8	14.9	17.1
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 ^(*)		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 ^(*)	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 ^(*)	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
Guaranteed Operating Range (Outdoor)	Max.Height	Out-In	m	12	12	30	30	30
	Cooling ^(*)		°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.

SFZ SERIES

The concealed floor standing type indoor unit is newly introduced to the S-series and can be neatly installed in the perimeter zone. High energy efficiency is achieved across all capacity range. External static pressure, airflow rate, and air intake direction can be selected according to the customer's choice.

R32

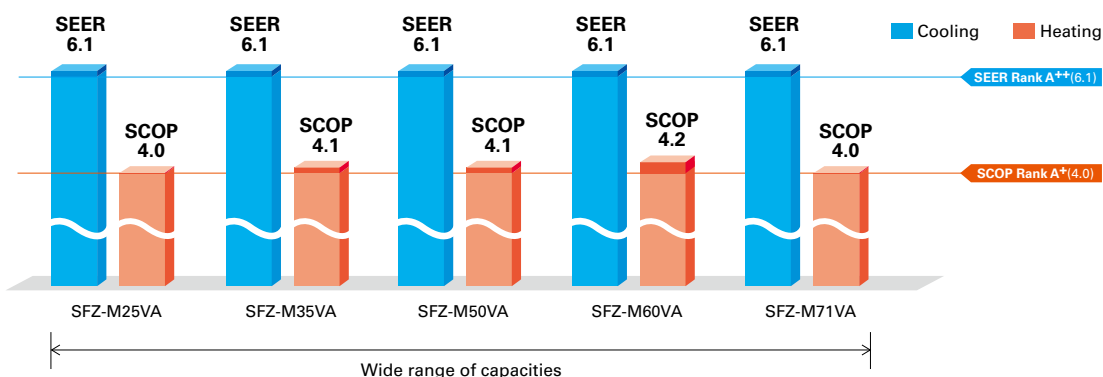


SFZ-M25/35/50/60/71VA



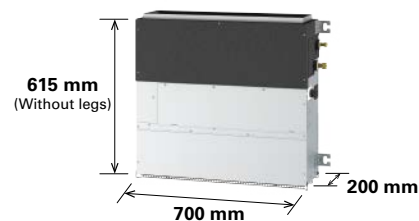
A wide lineup offering high energy efficiency

The SFZ series achieves an A++ rating on the SEER index, and an A+ rating on the SCOP index for all capacity range. No matter which capacity you select, the series offers a high level of energy efficiency.



Compact body and small footprint

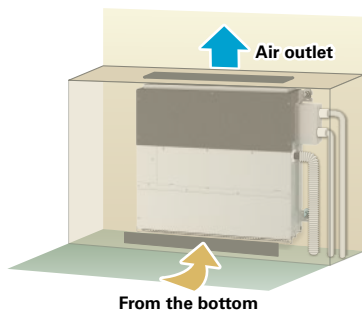
With the control box built inside the unit, the compact body and small footprint are realized. This allows the unit to be installed within a small perimeter zone.



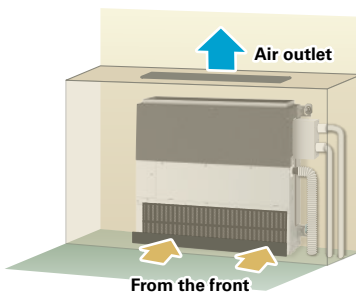
Flexible installation

Air inlet direction from the bottom or front can be selected by changing panel, fan guard and filter.

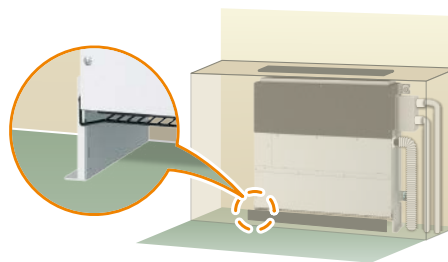
Bottom suction *1



Front suction *2



Installation with legs



*Height of unit (with legs) is 690 mm.
*Legs are supplied as accessory with the unit.

*1 Select a site where the flow of supply air is not blocked. The unit cannot be placed directly on the floor in the case of bottom suction.

*2 Unit with front suction generate more noise compared to bottom suction. Not recommended to be installed in rooms such as bedrooms where quietness is valued.

Fan speed

Airflow rate can be selected from 3 patterns; Low-Medium-High.

External static pressure

Four levels of static pressure are available. The ability to select additional static pressure provides flexibility for air outlet configuration.

SFZ-M25/35/50/60/71VA <0>/25/<40>/<60> 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.

SFZ-M SERIES

Indoor Unit

R32



SFZ-M25/35/50/60/71VA

Outdoor Unit

R32



SUZ-M25/35VA

R32



SUZ-M50VA

R32



SUZ-M60/71VA

Remote Controller



PAR-40MAA
*Optional



PAR-CT01MAA
*Optional



PAC-YT52CRA
*Optional

Type				Inverter Heat Pump					
Indoor Unit				SFZ-M25VA	SFZ-M35VA	SFZ-M50VA	SFZ-M60VA	SFZ-M71VA	
Outdoor Unit				SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA	
Refrigerant* ¹				R32* ¹					
Power Supply	Source			Outdoor power supply					
	Outdoor (V/Phase/Hz)			230 / Single / 50					
Cooling	Capacity	Rated	kW	2.5	3.5	5.0	6.1	7.1	
		Min - Max	kW	1.5 - 3.2	0.7 - 3.9	1.1 - 5.6	1.6 - 6.3	1.9 - 8.1	
	Total Input	Rated	kW	0.641	1.000	1.470	1.848	2.151	
	EER			3.90	3.50	3.40	3.30	3.30	
	Design Load		kW	2.5	3.5	5.0	6.1	7.1	
	Annual Electricity Consumption* ²		kWh/a	143	199	284	346	403	
	SEER* ⁴ * ⁵			6.1	6.1	6.1	6.1	6.1	
	Energy Efficiency Class			A++	A++	A++	A++	A++	
Heating (Average Season)	Capacity	Rated	kW	3.2	4.1	6.0	7.0	8.0	
		Min - Max	kW	1.2 - 4.2	1.0 - 5.0	1.5 - 7.2	1.6 - 8.0	2.0 - 10.2	
	Total Input	Rated	kW	0.886	1.051	1.617	1.886	2.156	
	COP			3.61	3.90	3.71	3.71	3.71	
	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)	3.3 (−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)	3.3 (−10°C)	4.1 (−10°C)	5.2 (−10°C)	
	Back Up Heating Capacity		kW	0.2	0.3	1.0	0.5	0.6	
	Annual Electricity Consumption* ²		kWh/a	766	887	1467	1532	1997	
	SCOP* ⁴ * ⁵			4.0	4.1	4.1	4.2	4.0	
		Energy Efficiency Class			A+	A+	A+	A+	A+
Operating Current (max)			A	7.2	8.9	14.1	15.4	15.6	
Indoor Unit	Input	Rated	kW	0.041	0.044	0.072	0.078	0.095	
		Operating Current (max)	A	0.44	0.44	0.61	0.64	0.76	
	Dimensions <Panel>* ⁶ * ⁷	H x W x D	mm	615 (690) - 797 (700) - 200	615 (690) - 997 (900) - 200	615 (690) - 997 (900) - 200	615 (690) - 1197 (1100) - 200	615 (690) - 1197 (1100) - 200	
	Weight <Panel>		kg	18.5	22.5	22.5	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* ⁸		Pa	<0> / 25 / <40> / <60>	<0> / 25 / <40> / <60>	<0> / 25 / <40> / <60>	<0> / 25 / <40> / <60>	<0> / 25 / <40> / <60>	
	Sound Level (SPL)* ⁹ [Lo-Mid-Hi]		dB(A)	25 - 29 - 35	25 - 29 - 33	30 - 35 - 39	30 - 35 - 39	30 - 36 - 42	
	Sound Level (PWL)		dB(A)	54	53	59	59	61	
	Outdoor Unit	Dimensions	H x W x D	mm	550 - 800 - 285	550 - 800 - 285	714 - 800 - 285	880 - 840 - 330	880 - 840 - 330
		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	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	
			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 height that includes the duct flange is 638 (713) mm. The values in () show the height of unit with leg.

*7 The width includes the pipe cover (sheet metal). The values in () show the width that does not include the pipe cover.

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

*9 SPL measured at ESP 25Pa.

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 an 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.)

Single System

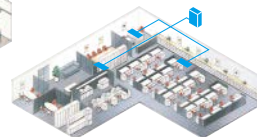


Simultaneous Multi-System

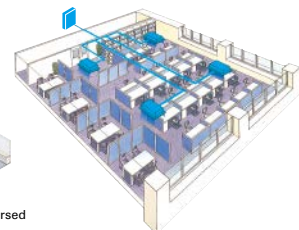
Twin Allows simultaneous operation of two indoor units on one floor.



Triple Can cover a large-scale space or dispersed installation on the same floor.



Quadruple Realises the optimum temperature distribution even in a large space.



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

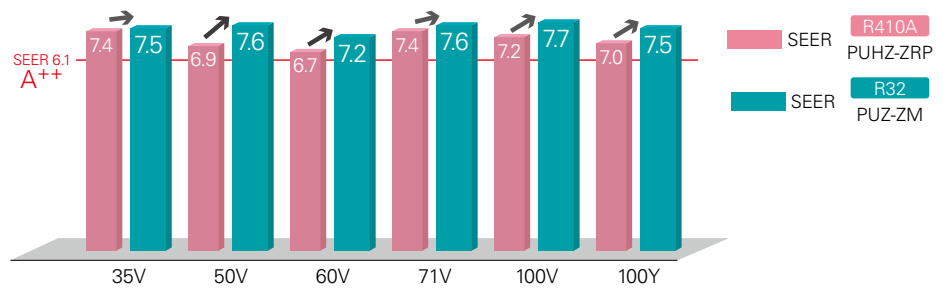
R32



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.

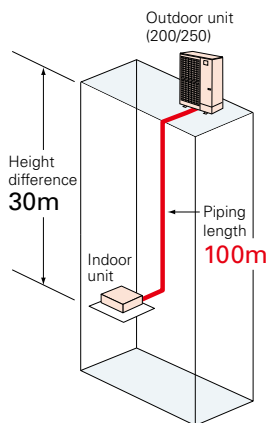


Introduction of new R32 refrigerant reduces energy consumption and realises energy savings.

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

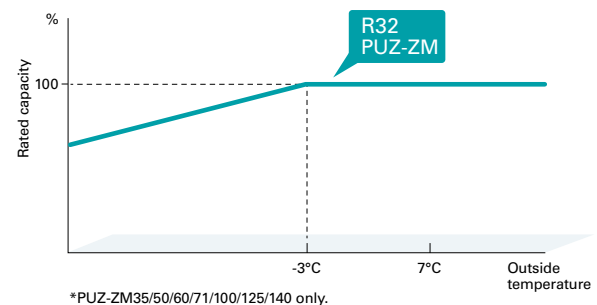
Longer piping length realised for 60, 71, 100, 125, 140, 200 and 250 classes, widely increasing installation flexibility.

	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.

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

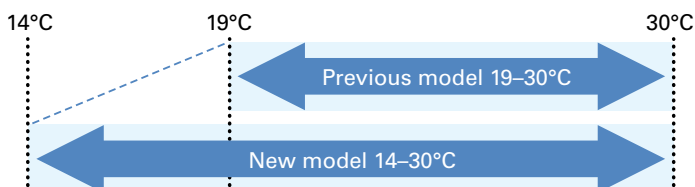
The standby unit starts operation if the actual temperature deviates significantly from the set temperature.

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*

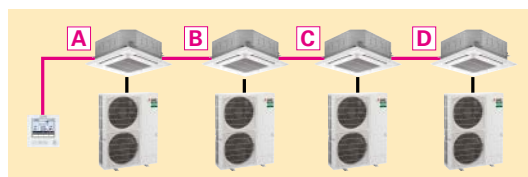
*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

Avoiding Simultaneous Defrosting

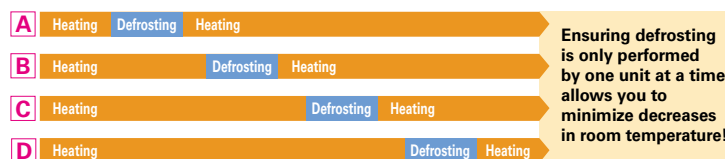
When each of multiple units is in operation for heating in the same space, these may start defrosting at the same time, resulting in a drop in the room temperature. Therefore, we have developed a new function that controls up to four-refrigerant air conditioning system to avoid simultaneous defrosting. 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

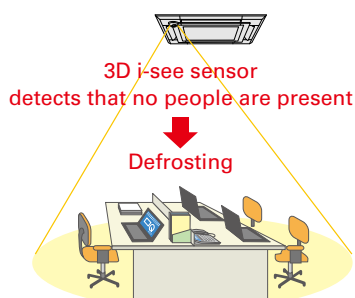


■When All Sets Are Controlled Together



Defrosting When People Are Absent

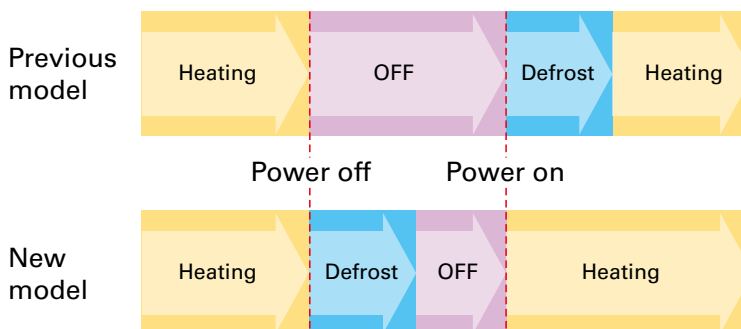
The use of the 3D i-see sensor allows a more comfortable defrosting schedule. After a large amount of frost has built up, the system will switch to defrosting when the 3D i-see sensor detects that no people are present. By minimizing defrosting while people are in the room, there is a much lower chance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

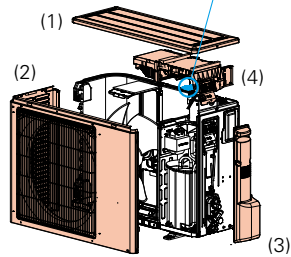
Conventional Model

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



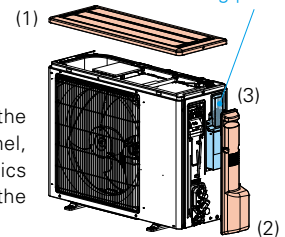
New Model

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.

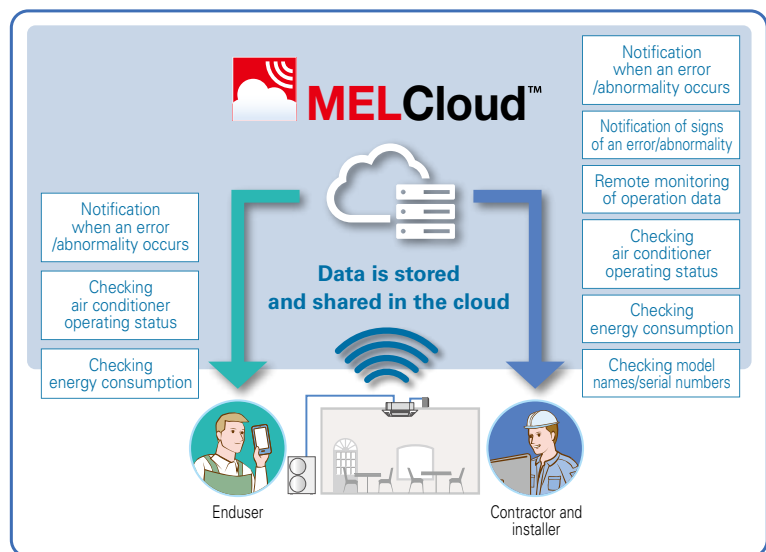
[Basic Operation Functions]

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

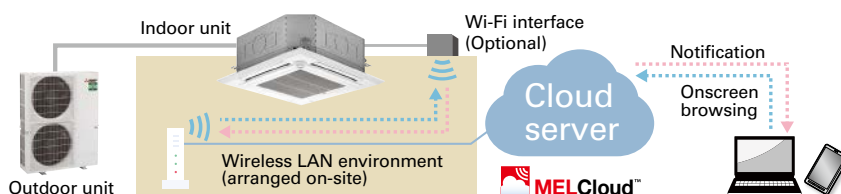


[Data Collection and Display]

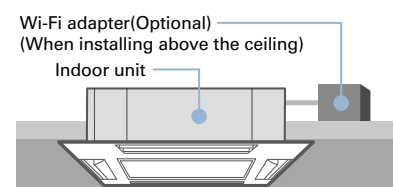
- Model name display
- Serial number display
- Collection of operation data
- Energy consumption display
- etc...



MELCloud System Configuration



Wi-Fi Adapter (Optional) Installation



On-Site Installation and Configuration

❶ Wireless 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

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.

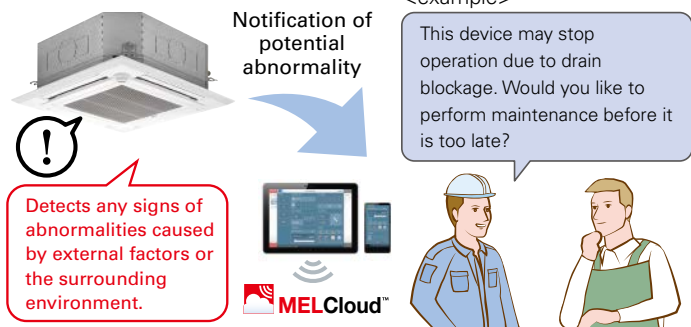
e.g. <Peak cut control> It is possible to utilize an external demand signal to reduce power consumption during peak hours. By satisfying the need for reducing peak power consumption or shifting consumption to a non-peak period, we have increased the range of options for our customers.

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.

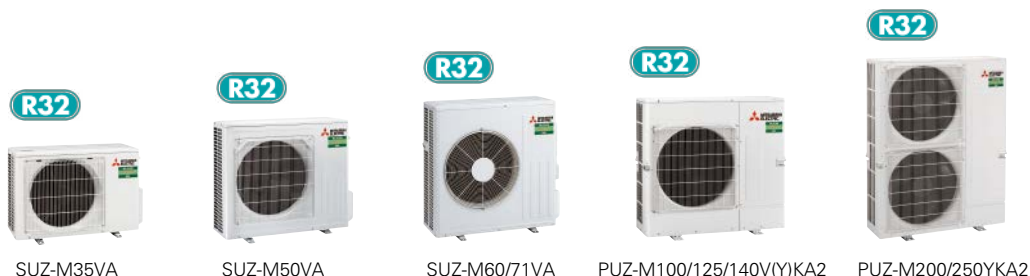
[Abnormalities That Have Their Signs Monitored]

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



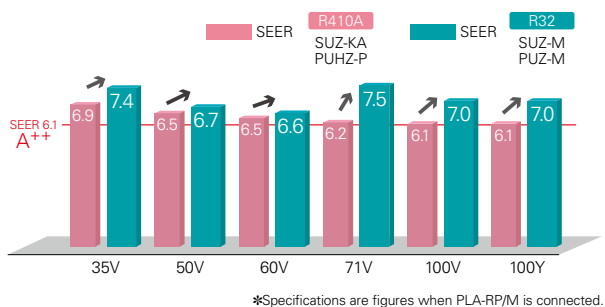
Standard Inverter SERIES

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



Improved energy efficiency

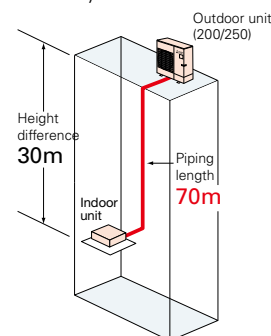
Introduction of new R32 refrigerant realises improved cooling efficiency. Rating of more than 6.6 achieved for all capacity range.



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



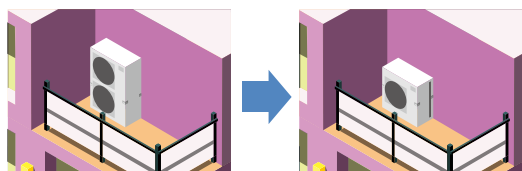
Light weight and compact size

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

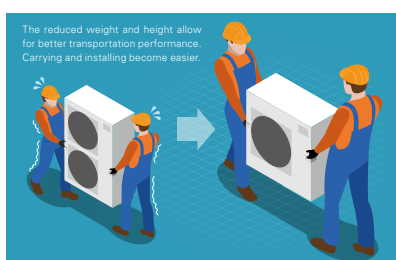
<p>SUZ-KA50VA6</p> <p>Height 880mm</p> <p>Weight 54kg</p>	➔	<p>SUZ-M50VA</p> <p>Height 714mm 18% reduction</p> <p>Weight 41kg 24% reduction</p>
<p>PUHZ-P140YHA2</p> <p>Height 1,350mm</p> <p>Weight 101kg</p>	➔	<p>PUZ-M140YKA2</p> <p>Height 981mm 27% reduction</p> <p>Weight 85kg 15% reduction</p>

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.



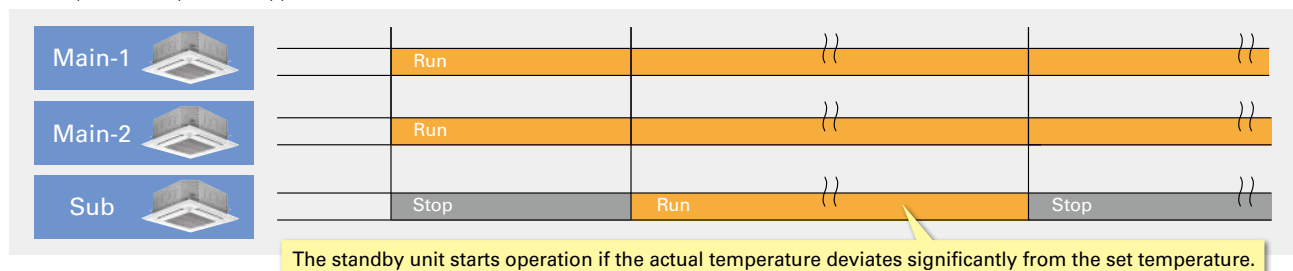
Rotation Function

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.

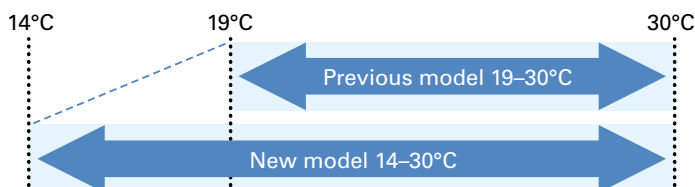


Extended cooling set temperature range*

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

```

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 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: ✓			
▼ Cursor ▲			

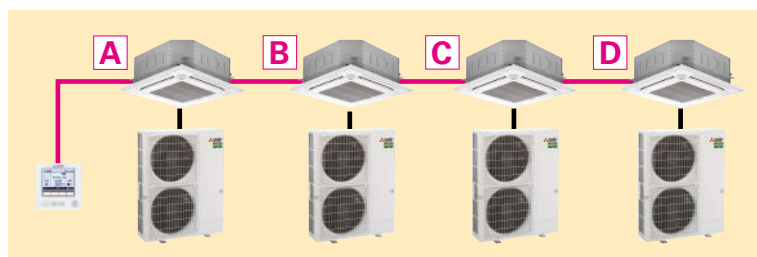
Improved defrosting performance*

*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

A	Heating	Defrosting	Heating
B	Heating	Defrosting	Heating
C	Heating	Defrosting	Heating
D	Heating	Defrosting	Heating

Ensuring defrosting is only performed by one unit at a time allows you to minimize decreases in room temperature!

Utilizing IoT for Improved Convenience*

*Availability of IoT functions are depending on MELCloud version.

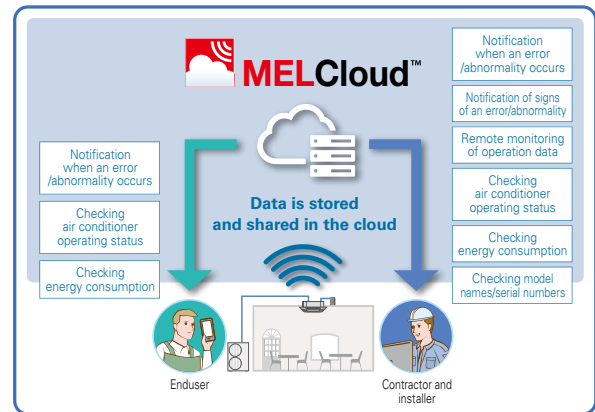
By connecting to a MAC-587IFE Wi-Fi interface, it is possible to collect data and perform air conditioning control via MELCloud. In addition to basic functions such as turning the power on/off and setting the temperature, it is also possible to acquire data used for maintenance and inspection such as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

[Basic Operation Functions]

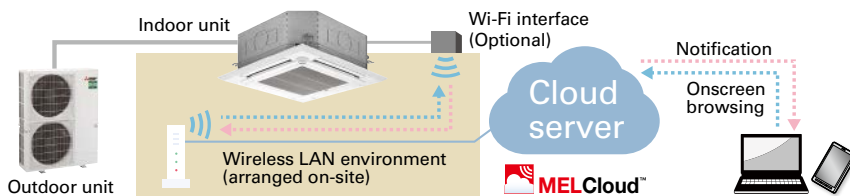
- Operation on/off ●Temperature setting
- Operation mode ●Airflow speed
- Airflow direction etc...

[Data Collection and Display]

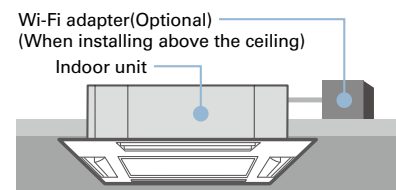
- Model name display ●Serial number display
- Collection of operation data
- Energy consumption display etc...



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.

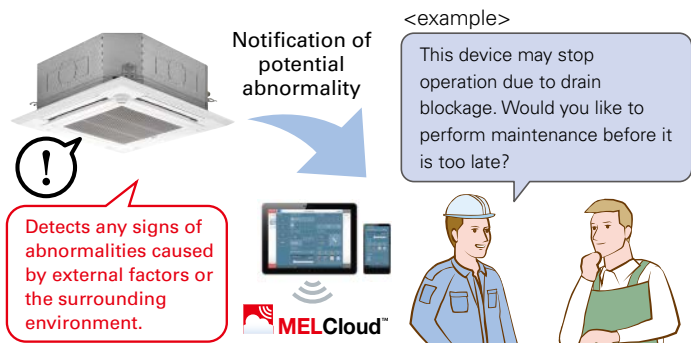
e.g. <Peak cut control> It is possible to utilize an external demand signal to reduce power consumption during peak hours. By satisfying the need for reducing peak power consumption or shifting consumption to a non-peak period, we have increased the range of options for our customers.

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.



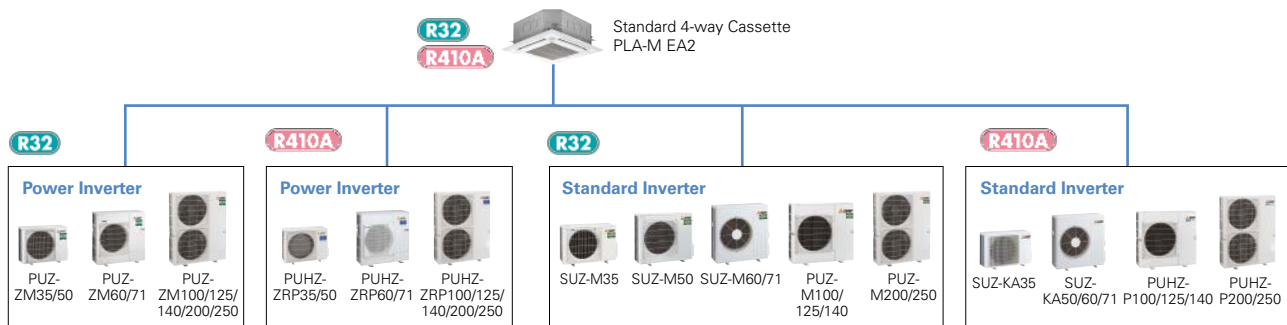
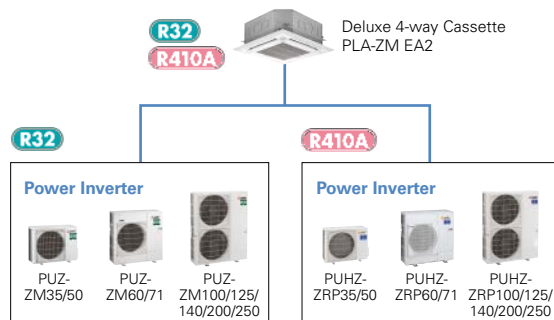
Deluxe 4-way Cassette Line-up

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.

Indoor/Outdoor Unit Combinations

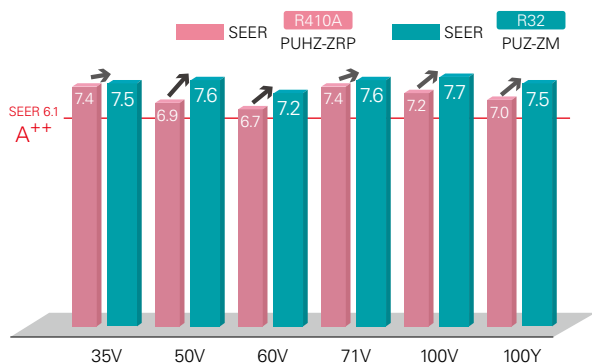
Line-up

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)	●	●	●	●	●	●	●



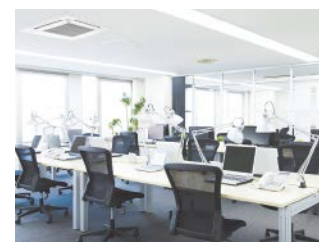
Industry-leading energy efficiency

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.

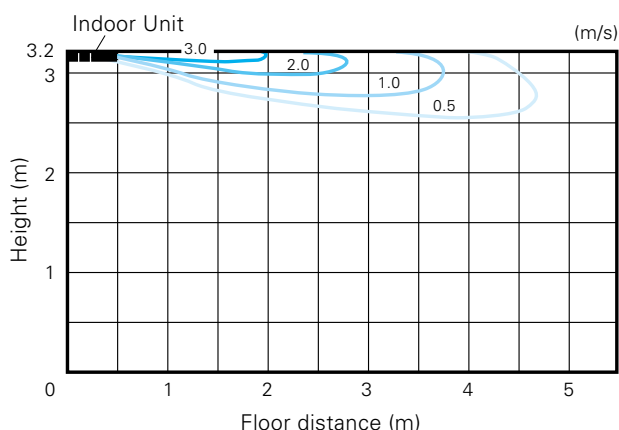


Horizontal Airflow

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-SK51FTE) 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)



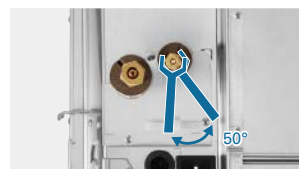
■ New model (E Series)



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

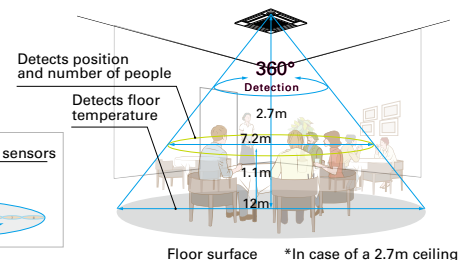
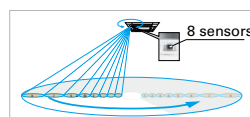
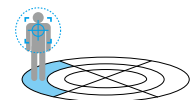
Once the position of a person is detected, the duct angle of the vane is automatically adjusted in that direction. Each vane can be independently set to "block wind" or "not block wind" according to taste.



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.

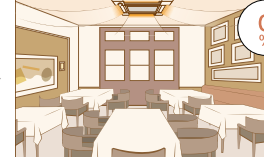
* When MA Remote Controller is used to control multiple refrigerant systems, "No occupancy Auto-Off mode" cannot be used.

Room occupancy energy save mode



1°C power savings

No occupancy energy save mode



2°C power savings

No occupancy Auto-Off mode



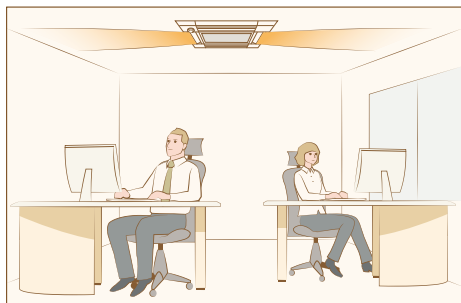
Auto-Off

*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.

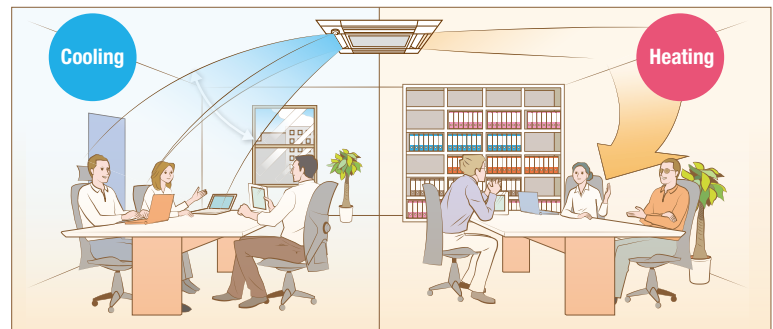
Seasonal airflow*

<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.

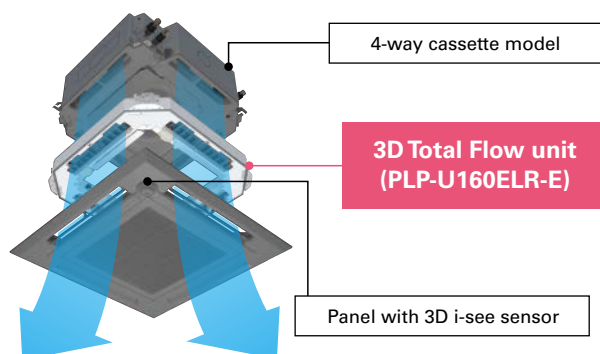


*PAR-41MAA is required for each setting.

3D Total Flow*

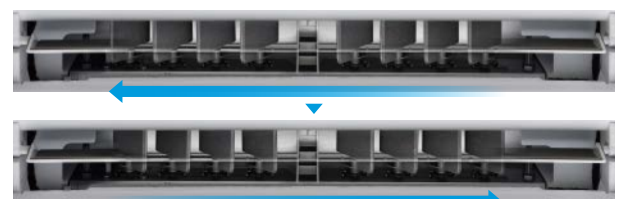
3D Total Flow is an innovative function. Our original 3D i-see sensor detects the temperature of the floor, and then the newly installed 3D Total Flow unit automatically controls the airflow in the left/right directions in a smart manner.

*3D Total Flow unit (PLP-U160ELR-E) cannot be used with Plasma Quad Connect (PAC-SK51TFE), Insulation kit (PAC-SK36HK-E), Shutter Plate (PAC-SJ37SP-E), Multi functional casement (PAC-SJ41TM-E) and High-efficiency filter element (PAC-SH59KFE)

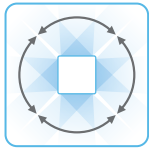


Horizontal louver (3D Total Flow)

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.

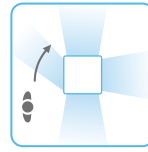
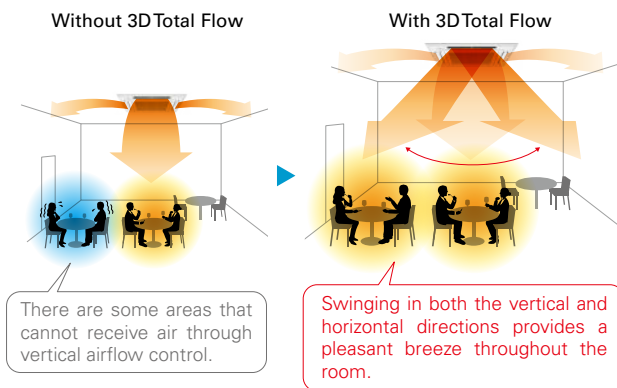


Swinging

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.

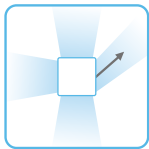
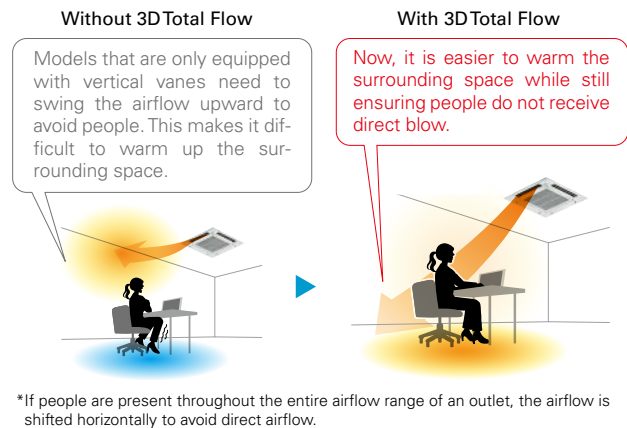


Indirect mode

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.

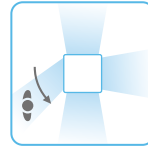
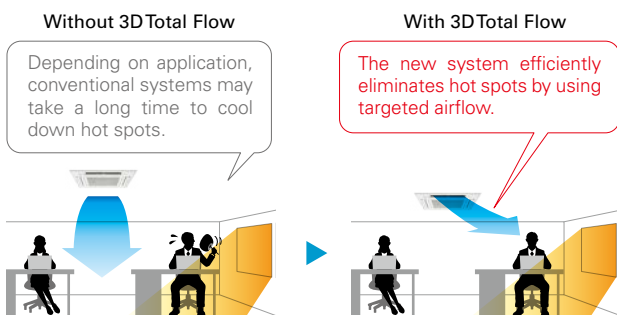


Targeting

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.

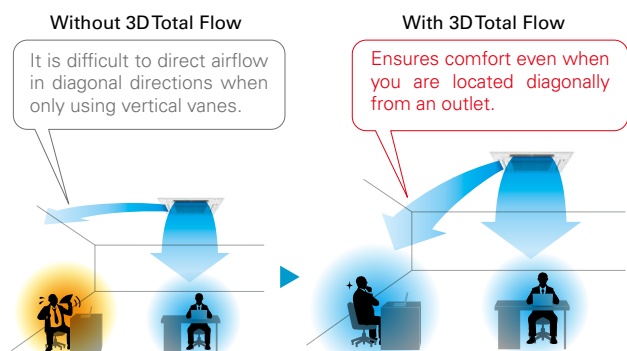


Direct mode

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

Delivers airflow even in diagonal directions

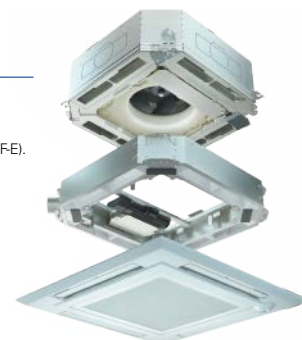
You can freely turn on "Direct" mode depending on personal preference. This allows for air conditioning in diagonal directions which was difficult for models that could only swing the airflow up and down. This feature is perfect for when you come back home on a hot day.



Connectable to *Plasma Quad Connect* *

The optional Plasma Quad Connect PAC-SK51FTE can be installed on the indoor units.

*Plasma Quad Connect(PAC-SK51FTE) 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

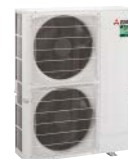
For Single



PUZ-ZM35/50



PUZ-ZM60/71



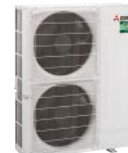
PUZ-ZM100/125/140

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

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-M35VKA2	PUZ-M50VKA2	PUZ-M60VHA2	PUZ-M71VHA2	PUZ-M100VKA2	PUZ-M100VKA2	PUZ-M125VKA2	PUZ-M125VKA2	PUZ-M140VKA2	PUZ-M140VKA2	
Refrigerant ^(*)				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	0.705	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	—	—	—	—	
Heating	Capacity	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
	Total Input	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	
	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)	4.4 (-11°C)	4.7 (-11°C)	7.8 (-11°C)	7.8 (-11°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	2271	—	—	—	—	
SCOP ^{(*)4}			4.7	4.9	4.6	4.8	4.8	4.8	—	—	—	—		
Operating	Current(Max)		A	13.2	13.2	19.2	19.3	20.5	8.5	9.5	30.7	12.5		
	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	
Indoor Unit	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>			298-840-840 <40-950-950>						
	Weight		kg	21 <5>	21 <5>	21 <5>	24 <5>	26 <5>	26 <5>	26 <5>	26 <5>	26 <5>		
	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			1338-1050-330(+40)						
	Weight		kg	46	46	46	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
Outdoor Unit	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	16	16	40	16		
	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	55	55	100	100	100	100	100	
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 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.

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-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA	PUZ-M100VKA2	PUZ-M100VKA2	PUZ-M125VKA2	PUZ-M125VKA2	PUZ-M140VKA2	PUZ-M140VKA2		
Refrigerant ^(*)				R32											
Power Supply				Outdoor power supply											
Cooling				VA-VKA: 230/Single/50, YKA:400/Three/50											
	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		
		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 ^(*)3)				7.4	6.7	6.6	7.5	7.0	7.0	—	—	—	—	
	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	1.0 - 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	kW	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 ^(*)4)				4.7	4.1	4.4	4.5	4.6	4.6	—	—	—	—		
Energy efficiency class				A++	A+	A+	A+	A++	A++	—	—	—	—		
Operating Current(Max)				A	8.7	13.7	15.0	15.1	20.5	12	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	17-19-21-23	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	29-30-32-34	31-34-37-40	31-34-37-40	33-37-41-44	33-37-41-44	36-39-42-44	36-39-42-44		
	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							
	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		
		Heating	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 ^(*)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	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 ^(*)6)	°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	

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			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 - 6.5	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>										
	Weight		kg	19 <5>	19 <5>	21 <5>	21 <6>	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-E		MSDT-111R-E			MSDF-1111R-E	

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-ZM35EA2 PLA-ZM50EA2 PLA-ZM60EA2 PLA-ZM71EA2 PLA-ZM100EA2 PLA-ZM125EA2 PLA-ZM125EA2 PLA-ZM140EA2 PLA-ZM140EA2													
Refrigerant ⁽¹⁾	PUH-ZRP35VKA2 PUH-ZRP50VKA2 PUH-ZRP60VHA2 PUH-ZRP71VHA2 PUH-ZRP100VKA3 PUH-ZRP125VKA3 PUH-ZRP125VKA3 PUH-ZRP140VKA3 PUH-ZRP140VKA3													
Power Supply	R410A													
Cooling	Source		Outdoor power supply											
	Outdoor(V/Phase/Hz)		VKA-VHA: 230/Single/50, YKA:400/Three/50											
	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4	
		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	0.782	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	—	—	—	—	
	Annual electricity consumption ⁽²⁾		kWh/a	170	253	318	335	461	472	—	—	—	—	
	SEER ⁽⁴⁾			7.4	6.9	6.7	7.4	7.2	7.0	—	—	—	—	
	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	0.850	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)	—	—	—	—	
		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	713	1108	1335	1337	2223	2224	—	—	—	—		
SCOP ⁽⁴⁾			4.9	4.8	4.6	4.9	4.9	4.9	—	—	—	—		
Energy efficiency class			A++	A++	A++	A++	A++	A++	A++	—	—	—		
Operating Current(Max)			A	13.2	13.2	19.2	19.3	27.0	8.5	27.0	10.0	28.7	13.7	
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	0.47	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	
	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	943-960-330(+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)	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	
Outdoor Unit	Heating	m³/min	45	45	55	55	110	110	120	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	13	
	Breaker Size	A	16	16	25	25	32	16	32	16	40	16	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
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	-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														
Outdoor Unit														
Refrigerant ⁽¹⁾	R410A													
Power Supply	Source	Outdoor power supply												
Cooling	Outdoor(V/Phase/Hz)		VA-VKA:230/Single/50, YKA:400/Three/50											
	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	—	—	—	—	
	SEER ⁽⁴⁾			6.9	6.5	6.5	6.2	6.1	6.1	—	—	—	—	
	Energy efficiency class			A++	A++	A++	A++	A++	A++	—	—	—	—	
	Heating	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 ⁽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>										
	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	
	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	
Outdoor Unit	Weight		kg	35	54	50	53	76	78	84	85	84	85	
	Air Volume	Cooling	m³/min	36.3	44.6	40.9	50.1	79	79	86	86	86	86	
		Heating	m³/min	34.8	44.6	49.2	48.2	79	79	92	92	92	92	
	Sound Level (SPL)	Cooling	dB(A)	49	52	55	55	51	51	54	54	56	56	
		Heating	dB(A)	50	52	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 ⁽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 ⁽²³⁾	°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	PLA-M140EA2
Outdoor Unit		PUHZ-ZRP35VKA2	PUHZ-ZRP50VKA2	PUHZ-ZRP60VHA2	PUHZ-ZRP71VHA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100VKA3	PUHZ-ZRP125VKA3	PUHZ-ZRP125VKA3	PUHZ-ZRP140VKA3	PUHZ-ZRP140VKA3	PUHZ-ZRP140VKA3
Refrigerant ^(*)		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		
	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	11-13-16	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	-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 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

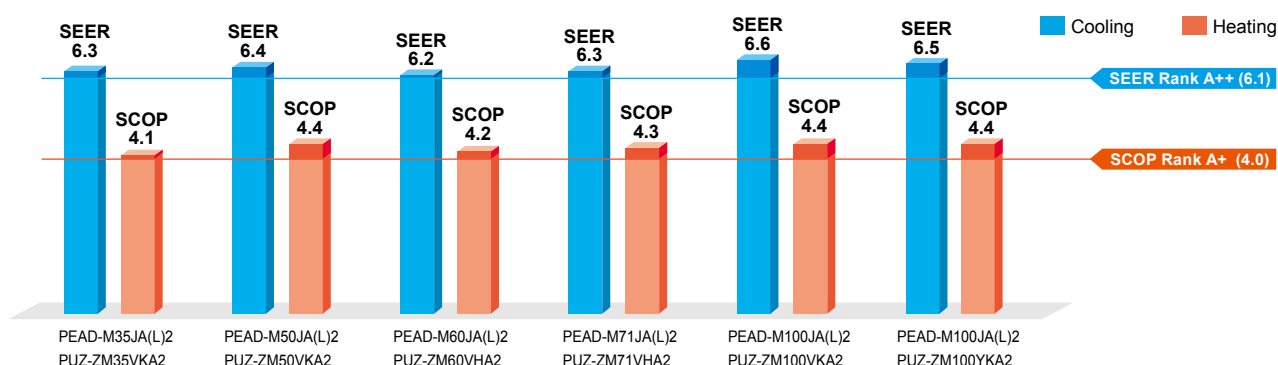
Energy efficiency has been improved. A reduced electricity consumption contributes to a further reduction in operating cost. The thin body with a wide-ranged external static pressure of this series is the perfect answer for the air conditioning needs of buildings with minimum ceiling installation space.



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.

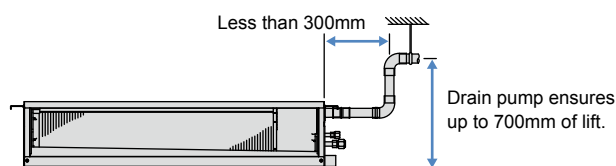
Selectable Static Pressure Levels

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-100FT-E 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-SA9CA-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*

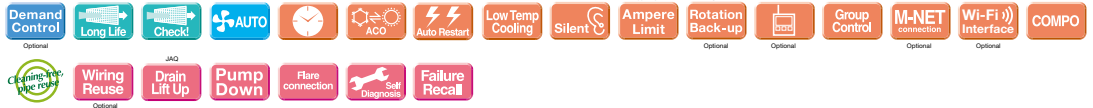
* PAR-SA9CA-E is also required.

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-50WR2-E			MSDT-111R3-E			MSDF-1111R2-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			PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM100VKA2	PUZ-ZM125VKA2	PUZ-ZM125VKA2	PUZ-ZM140VKA2	PUZ-ZM140VKA2
Refrigerant ^(*)			R32									
Power Supply			Outdoor power supply									
Cooling			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	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	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	3.701	3.701
	EER ^(*)			4.30	4.20	4.10	4.00	4.20	4.20	3.75	3.62	3.62
	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	—	—	—
	Annual electricity consumption ^(*)		kWh/a	199	273	342	393	499	510	—	—	—
	SEER ^(*)			6.3	6.4	6.2	6.3	6.6	6.5	—	—	—
	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 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
	Total Input	Rated	kW	0.911	1.363	1.590	1.904	2.545	2.545	3.763	4.102	4.102
	COP ^(*)			4.50	4.40	4.40	4.20	4.40	4.40	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 ^(*)		kWh/a	816	1202	1459	1585	2469	2470	—	—	—
	SEER ^(*)			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
Indoor Unit	Input [cooling / Heating]	Rated	kW	0.05	0.07	0.08	0.09	0.14	0.14	0.20	0.21	0.21
	Operating Current(Max)		A	1.16	1.35	1.85	1.9	2.25	2.25	2.34	2.63	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)	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	29.5-35.5-40.0	29.5-35.5-40.0
	External Static Pressure ^(*)		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
	Sound Level (PWL)		dB(A)	54	58	56	58	62	62	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)
	Weight		kg	46	46	67	67	105	111	105	118	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	49	49	51	51	52	52	52
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	69	69	70	70	70
		Heating	dB(A)	67	67	69	69	71	71	72	72	72
	Operating Current(Max)		A	13	13	19	19	20	8	26.5	9	30
	Breaker Size		A	16	16	25	25	32	16	32	16	40
	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
	Max.Length	Out-In	m	50	50	55	55	100	100	100	100	100
Guaranteed Operating Range (Outdoor)	Cooling ^(*)	°C		-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
		°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.

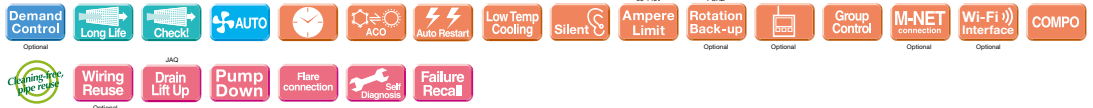
*3 Optional air protection guide is required where ambient temperature is lower than -5°C. *4 EER/COP and SEER/SCOP for M35-71 are measured at ESP 35Pa, for M100 at ESP 37Pa, for M125/140 at ESP 50Pa.

*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-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA	PUZ-M100VKA2	PUZ-M100VKA2	PUZ-M125VKA2	PUZ-M125VKA2	PUZ-M140VKA2	PUZ-M140VKA2
Refrigerant ^(*)				R32									
Power Supply Cooling	Source				Outdoor power supply								
	Outdoor(V/Phase/Hz)				VA-VKA:230/Single/50, YKA:400/Three/50								
	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 ^(*)			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 ^(*)		kWh/a	199	277	345	397	538	538	—	—	—	—
	SEER ^(*)			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 ^(*)			4.00	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 ^(*)		kWh/a	884	1417	1558	1973	2725	2725	—	—	—	—
SCOP ^(*)			4.1	4.2	4.1	4.1	4.1	4.1	—	—	—	—	
	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	250×1600×732
	Weight		kg	25(24.5)	26.5(25.5)	29.5(29)	29.5(29)	37(36)	37(36)	38(37)	42(41)	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 ^(*)		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	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 ^(*)	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
Guaranteed Operating Range (Outdoor)	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
		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	-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-SA9CA-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-111B-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*

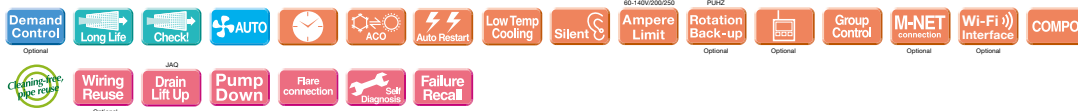
* PAR-SA9CA-E is also required.

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 ⁽⁴⁾			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 ⁽²⁾		kWh/a	205	287	340	411	542	553	—	—	—	—	
	SEER ⁽⁴⁾⁽⁵⁾			6.1	6.1	6.2	6.0	6.1	6.0	—	—	—	—	
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	0.950	1.500	1.790	2.030	2.600	2.600	3.508	3.508	4.071	4.071	
	COP ⁽⁴⁾			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 ⁽²⁾		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+	—	—	
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	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)	42(41)	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>			
	Air Volume (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(+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)	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	9.52 / 15.88	
		Max.Length	m	50	50	50	50	75	75	75	75	75	75	
Max.Height		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 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.

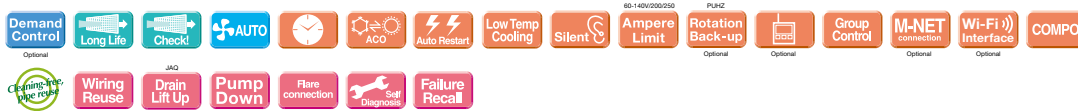
*3 Optional air protection guide is required where ambient temperature is lower than -5°C. *4 EER/COP and SEER/SCOP for M35-71 are measured at ESP 35Pa, for M100 at ESP 37Pa, for M125/140 at ESP 50Pa.

*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	—	—	—	—	
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	250×1400×732	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>						
	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	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	86	85	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	
	Diameter ⁽⁴⁾			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	
Max.Length			Out-In	m	20	30	30	30	50	50	50	50		
Max.Height			Out-In	m	12	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		
			Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-15 ~ +24	-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 PEA model realizes improved energy efficiency with a patented fan called Turbo In Sirocco fan. A wider option of external static pressure up to 250Pa allows authentic ducted air-conditioning with an elegant interior layout. In addition, the PEA series has a separated structure that enables delivery into a narrow space.



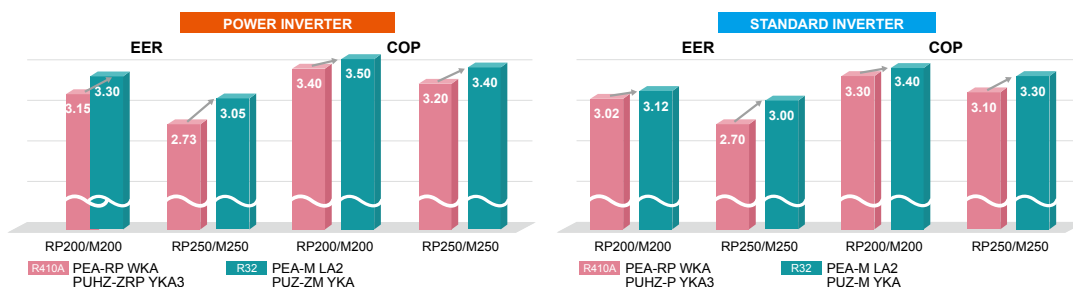
PEA-M200/250LA2



The separated structure increases the efficiency of delivery into a narrow space.

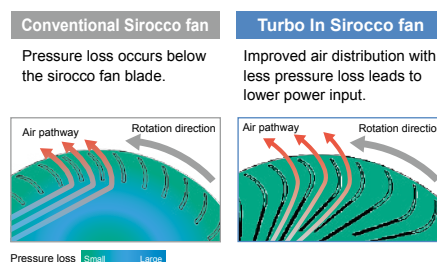
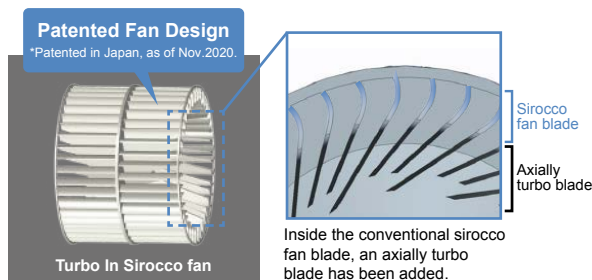
Improved Energy Efficiency

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



Low input with Fan Design

The PEA series applies a designed fan; a Turbo In Sirocco fan which realizes high efficiency with a lower power input. The 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

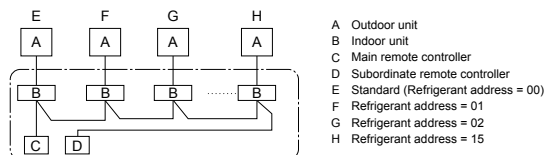
250Pa setting is newly added enabling total of five static pressure level. The ability to select additional static pressure enables long duct and more freedom in design.

PEA-M200/250LA2 75/<100>/<150>/<200>/<250> 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 <p>PEA-M200/250LA2</p>	Outdoor Unit <div> Power Inverter Series R410A PUHZ-ZRP200/250 </div> <div> Standard Inverter Series R410A PUHZ-P200/250 </div> <div> Power Inverter Series R32 PUZ-ZM200/250 </div> <div> Standard Inverter Series R32 PUZ-M200/250 </div>	Remote Controller <div> <p>Optional</p> </div> <div> <p>Optional</p> </div> <div> <p>Optional</p> </div>

PEA-M SERIES

POWER INVERTER



Type				Inverter Heat Pump	
Indoor Unit				PEA-M200LA2	PEA-M250LA2
Outdoor Unit				PUZ-ZM200YKA2	PUZ-ZM250YKA2
Refrigerant ⁽¹⁾				R32	
Power Supply				Separate power supply	
Cooling				400/Three/50	
Cooling	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	5.757	7.213
	EER			3.30	3.05
Heating	Capacity	Rated	kW	22.4	27.0
		Min-Max	kW	7.1 - 25.0	7.3 - 31.0
	Total Input	Rated	kW	6.400	7.941
	COP			3.50	3.40
	Current(Max)		A	27.3	27.3
Indoor Unit	Input [cooling / Heating]			Rated	
	Operating Current(Max)		A	0.32	0.48
	Dimensions	H x W x D	mm	4.8	4.8
	Weight		kg	88	88
	Air Volume (Lo-Mid-Hi)	Normal airflow mode	m³/min	42.0-51.0-60.0	50.0-61.0-72.0 (75Pa-200Pa)
Outdoor Unit		High airflow mode	m³/min	50.0-61.0-72.0 (75Pa-200Pa)	58.0-72.0-84.0 (75Pa-150Pa)
				42.0-51.0-60.0 (250Pa)	50.0-61.0-72.0 (200Pa)
					42.0-51.0-60.0 (250Pa)
	External Static Pressure		Pa	75/(100)/(150)/(200)/(250)	
	Sound Level (Lo-Mid-Mi1-Hi) (SPL)		dB(A)	34.5-39.0-43.0	37.5-42.0-46.0
Outdoor Unit	Sound Level (PWL)		dB(A)	63.0-64.0-64.0	67.0-67.0-68.0
	Dimensions	H x W x D	mm	1338-1050-330(+40)	1338-1050-330(+40)
	Weight		kg	137	138
	Air Volume	Cooling	m³/min	140	140
		Heating	m³/min	140	140
Outdoor Unit	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 ⁽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⁾	°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-M200LA2	PEA-M250LA2
Outdoor Unit				PUZ-M200YKA2	PUZ-M250YKA2
Refrigerant ⁽¹⁾				R32	
Power Supply				Separate power supply	
Cooling				400/Three/50	
Cooling	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 - 25.0	7.3 - 31.0
	Total Input	Rated	kW	6.588	8.181
	COP			3.40	3.30
	Current(Max)		A	27.3	27.3
Indoor Unit	Input [cooling / Heating]			Rated	
	Operating Current(Max)		A	0.32	0.48
	Dimensions	H x W x D	mm	4.8	4.8
	Weight		kg	88	88
	Air Volume (Lo-Mid-Hi)	Normal airflow mode	m³/min	42.0-51.0-60.0	50.0-61.0-72.0 (75Pa-200Pa)
Outdoor Unit		High airflow mode	m³/min	50.0-61.0-72.0 (75Pa-200Pa)	58.0-72.0-84.0 (75Pa-150Pa)
				42.0-51.0-60.0 (250Pa)	50.0-61.0-72.0 (200Pa)
					42.0-51.0-60.0 (250Pa)
	External Static Pressure		Pa	75/(100)/(150)/(200)/(250)	
	Sound Level (Lo-Mid-Mi1-Hi) (SPL)		dB(A)	34.5-39.0-43.0	37.5-42.0-46.0
Outdoor Unit	Sound Level (PWL)		dB(A)	63.0-64.0-64.0	67.0-67.0-68.0
	Dimensions	H x W x D	mm	1338-1050-330(+40)	1338-1050-330(+40)
	Weight		kg	129	138
	Air Volume	Cooling	m³/min	140	140
		Heating	m³/min	140	140
Outdoor Unit	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	22.5	22.5
	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	70	70
	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

POWER INVERTER



Type				Inverter Heat Pump	
Indoor Unit				PEA-M200LA2	PEA-M250LA2
Outdoor Unit				PUHZ-ZRP200YKA3	PUHZ-ZRP250YKA3
Refrigerant ^(*)				R410A	
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	22.4	27.0
		Min - Max	kW	9.5 - 25.0	12.5 - 31.0
	Total Input	Rated	kW	6.530	8.181
	COP			3.43	3.30
Operating Current (max)				23.8	25.8
Indoor Unit	Input [Cooling / Heating]	Rated	kW	0.32/0.32	0.48/0.48
	Operating Current (max)			A	4.8
	Dimensions			H x W x D	mm
	Weight			kg	88
	Air Volume [Lo-Mid-Hi]	Normal mode	m³/min	45-51-60	50-61-72
		High airflow mode	m³/min	50-61-72	58-72-84
	External Static Pressure			Pa	75/(100)/(150)/(200)/(250)
	Sound Level (SPL) [Lo-Mid-Hi]			dB(A)	34.5-39.0-43.0
	Sound Level (PWL)			dB(A)	63.0-64.0-64.0
	Sound Level (SPL) [Lo-Mid-Hi]			dB(A)	37.5-42.0-46.0
Outdoor Unit	Dimensions			H x W x D	mm
	Weight			kg	135
	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	21.0
	Breaker Size			A	32
Ext. Piping	Diameter ^(*)	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 ^(*)	°C
				Heating	°C

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*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-M200LA2	PEA-M250LA2
Outdoor Unit				PUHZ-P200YKA3	PUHZ-P250YKA3
Refrigerant ^(*)				R410A	
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 - 25.0	12.5 - 31.0
	Total Input	Rated	kW	6.706	8.437
	COP			3.34	3.20
Operating Current (max)				23.8	25.8
Indoor Unit	Input [Cooling / Heating]	Rated	kW	0.32/0.32	0.48/0.48
	Operating Current (max)			A	4.8
	Dimensions			H x W x D	mm
	Weight			kg	88
	Air Volume [Lo-Mid-Hi]	Normal mode	m³/min	45-51-60	50-61-72
		High airflow mode	m³/min	50-61-72	58-72-84
	External Static Pressure			Pa	75/(100)/(150)/(200)/(250)
	Sound Level (SPL) [Lo-Mid-Hi]			dB(A)	34.5-39.0-43.0
	Sound Level (PWL)			dB(A)	63.0-64.0-64.0
	Sound Level (SPL) [Lo-Mid-Hi]			dB(A)	37.5-42.0-46.0
Outdoor Unit	Dimensions			H x W x D	mm
	Weight			kg	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
		Heating	dB(A)	77	77
	Operating Current (max)			A	21.0
	Breaker Size			A	32
Ext. Piping	Diameter ^(*)	Liquid / Gas	mm	9.52 / 25.4	12.7 / 25.4
	Max. Length	Out-In	m	70	70
	Max. Height	Out-In	m	30	30
Guaranteed Operating Range (Outdoor)				Cooling ^(*)	°C
				Heating	°C

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*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

R32
R410A

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



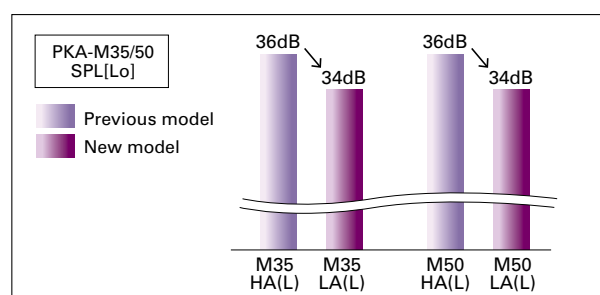
New Design (M35-50)

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.

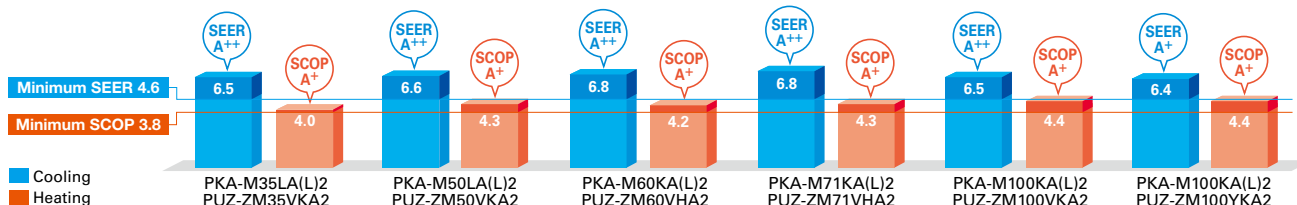


Main Functions of new Wireless Remote Controller

- 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.

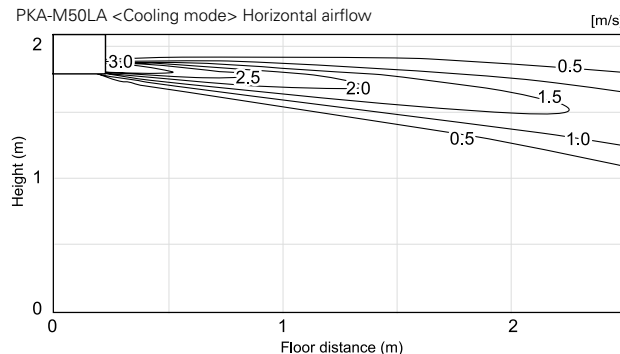


Airflow Control – Horizontal Airflow – (M35-50)

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•KAL2/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-50WR2-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•KAL2/LAL2 only

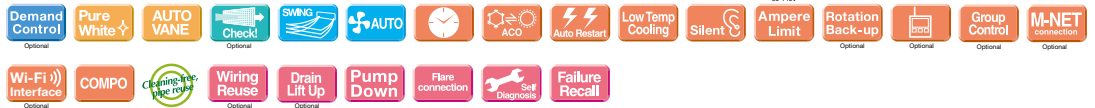
(*) PAC-SH29TC-E is required for LAL and KAL (optional)

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-111R2-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-ZM100YKA2
Refrigerant ⁽¹⁾				R32					
Power Supply				Outdoor power supply					
Cooling	Source				VKA·VHA:230/Single/50, YKA:400/Three/50				
	Outdoor(V/Phase/Hz)								
	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	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+	
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)
Outdoor Unit	Weight		kg	46	46	67	67	105	111
	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	49	49	51	51
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	69	69
		Heating	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⁾	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
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	-15 ~ +46	-15 ~ +46
		°C		-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21
	Heating			-11 ~ +21	-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				PUZ-M100VKA2		PUZ-M100YKA2	
Refrigerant ⁽¹⁾				R32			
Power Supply				Outdoor power supply			
Cooling				VKA・VHA:230/Single/50, YKA:400/Three/50			
	Source	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	12.1	
Indoor Unit	Input [cooling / Heating]	Rated	kW	0.08 / 0.07	0.08 / 0.07		
			A	0.57	0.57		
	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		
	Outdoor Unit	Dimensions	H*W*D	mm	981-1050-330 (+40)	981-1050-330(+40)	
		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	

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*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•KAL2/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•KAL2/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)
Ext.Piping	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+
	Operating 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
Guaranteed Operating Range (Outdoor)	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

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*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)					
Ext.Piping	Back up heating capacity		kW	2.0					
	Annual electricity consumption ⁽²⁾		kWh/a	2799					
	SCOP ⁽⁴⁾			4.0					
	Energy efficiency class			A+					
	Operating 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					
Guaranteed Operating Range (Outdoor)	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					

*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

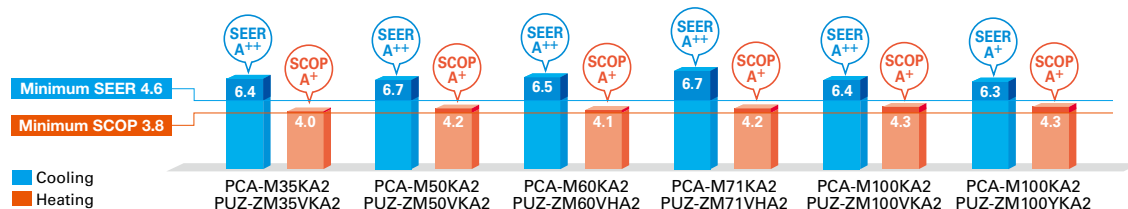
A stylish square-like design is adopted for the indoor units of all models. As a result, the units blend in better with the ceiling.



PCA-KA

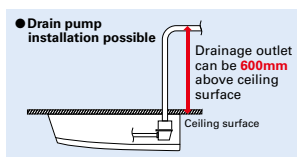
ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

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.



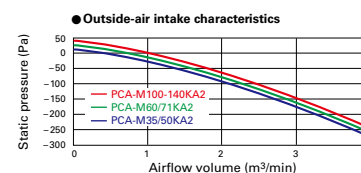
Optional Drain Pump for Full-capacity Models

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



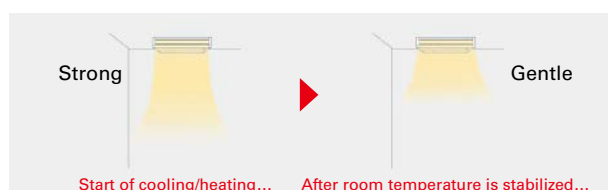
Outside-air Intake

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*

* PAR-SA9CA is also required.

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*

* PAR-SA9CA is also required.

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-50WR2-E		MSDT-111R3-E			MSDF-111R2-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 ⁽¹⁾			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 ⁽²⁾		kWh/a	197	260	328	371	516	527	—	—	—	—	
	SEER ⁽⁴⁾			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 ⁽²⁾			kWh/a	838	1266	1501	1567	2536	2537	—	—	—	—	
SCOP ⁽⁴⁾			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			
	Weight		kg	25	26	32	32	37	37	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	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	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)	1338-1050-330(+40)	1338-1050-330(+40)	1338-1050-330(+40)		
	Weight		kg	46	46	67	67	105	111	105	114	105		
	Air Volume		Cooling	m³/min	45	45	55	55	110	110	120	120	120	
Outdoor Unit	Sound Level (SPL)		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	
	Sound Level (PWL)		Heating	dB(A)	46	46	49	49	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	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	
	Max.Length		Out-In	m	50	50	55	55	100	100	100	100	100	
	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	-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 ⁽¹⁾			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 ⁽²⁾		kWh/a	198	291	333	381	553	553	—	—	—	—
	SEER ⁽⁴⁾			6.3	6.0	6.4	6.5	6.0	6.0	—	—	—	—
	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	1.0 - 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	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 ⁽²⁾		kWh/a	910	1458	1558	1974	2729	2729	—	—	—	—	
SCOP ⁽⁴⁾			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	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	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	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	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)	
Outdoor Unit	Weight		kg	35	41	54	55	76	78	84	85	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	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	55	55	65	65	65	
	Max.Height	Out-In	m	12	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

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*

* PAR-SA9CA is also required.

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*

* PAR-SA9CA is also required.

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-ZRP35VA2	PUHZ-ZRP50VA2	PUHZ-ZRP60VA2	PUHZ-ZRP71VA2	PUHZ-ZRP100VA3	PUHZ-ZRP100YKA3	PUHZ-ZRP125VA3	PUHZ-ZRP125YKA3	PUHZ-ZRP140VA3	PUHZ-ZRP140YKA3
Refrigerant ⁽¹⁾			R410A									
Power Supply			Outdoor power supply									
Cooling			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	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	12.5	12.5	13.4	13.4
Annual electricity consumption ⁽²⁾	at reference design temperature	kWh/a	202	282	340	367	542	553	—	—	—	—
	at bivalent temperature	kWh/a	6.2	6.1	6.2	6.7	6.1	6.0	—	—	—	—
	at operation limit temperature	kWh/a	—	—	—	—	—	—	—	—	—	—
	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	—	—	—	—
Energy efficiency class			A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
Heating	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	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	—	—	—	—
Energy efficiency class			A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
Operating Current(Max)			A	13.3	13.4	19.4	19.4	27.2	27.2	27.3	28.9	28.9
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
	Operating Current(Max)	Rated	A	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76	0.90
	Dimensions	H*W*D	mm	230-960-680	230-1280-680	230-1280-680	230-1280-680	230-1600-680	230-1600-680	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
Outdoor Unit	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(+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)
	Weight	kg	43	46	70	70	116	123	116	125	118	131
	Air Volume	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
	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)	Rated	A	13	13	19	19	26.5	26.5	26.5	28	28
Ext.Piping	Breaker Size	A	16	16	25	25	32	32	32	32	40	40
	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	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max.Length	m	50	50	50	50	75	75	75	75	75	75
	Max.Height	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
Guaranteed Operating Range (Outdoor)	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.



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-P100VA	PUHZ-P100YKA	PUHZ-P125VA	PUHZ-P125YKA	PUHZ-P140VA	PUHZ-P140YKA
Refrigerant ⁽¹⁾			R410A									
Power Supply			Outdoor power supply									
Cooling			VA-VKA-230/Single/50, YKA-400/Three/50									
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
	Total Input	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⁾	at reference design temperature	kWh/a	209	299	325	408	584	584	—	—	—	—
	at bivalent temperature	kWh/a	6.0	5.8	6.1	6.0	5.6	5.6	—	—	—	—
	at operation limit temperature	kWh/a	—	—	—	—	—	—	—	—	—	—
	Back up heating capacity	kW	0.3	0.4	0.8	0.6	2.0	2.0	—	—	—	—
	Annual electricity consumption ⁽²⁾	kWh/a	886	1388	1680	2029	2729	2729	—	—	—	—
Energy efficiency class			A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
Heating	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	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)	—	—	—	—
	at operation limit temperature	kW	2.3 (-10°C)	3.6 (-10°C)	4.0 (-10°C)	5.2 (-10°C)	4.5 (-15°C)	4.5 (-15°C)	—	—	—	—
	Back up heating capacity	kW	0.3	0.4	0.8	0.6	2.0	2.0	—	—	—	—
	Annual electricity consumption ⁽²⁾	kWh/a	886	1388	1680	2029	2729	2729	—	—	—	—
Energy efficiency class			A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
Operating Current(Max)			A	8.5	12.4	14.4	16.5	20.7	12.2	27.3	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
	Operating Current(Max)	Rated	A	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76	0.90
	Dimensions	H*W*D	mm	230-960-680	230-1280-680	230-1280-680	230-1280-680	230-1600-680	230-1600-680	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
Outdoor Unit	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	880-840-330	880-840-330	981-1050-330	981-1050-330	981-1050-330	981-1050-330	981-1050-330
	Weight	kg	35	54	50	53	76	78	84	86	86	86
	Air Volume	m³/min	36.3	44.6	40.9	50.1	79	79	86	86	86	86
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

PCA-HA SERIES



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

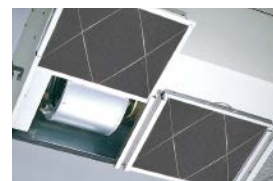
A high-performance heavy-duty oil mist filter is included as standard equipment. The filtering system is more efficient than conventional filters, thereby effectively reducing the oily smoke entering the air conditioner. The filter is disposable, thereby enabling trouble-free cleaning and maintenance.

Oil Mist Filter Cleaning

When used in kitchens, the oil mist filter should be replaced once every two months. The system comes with 12 filter 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

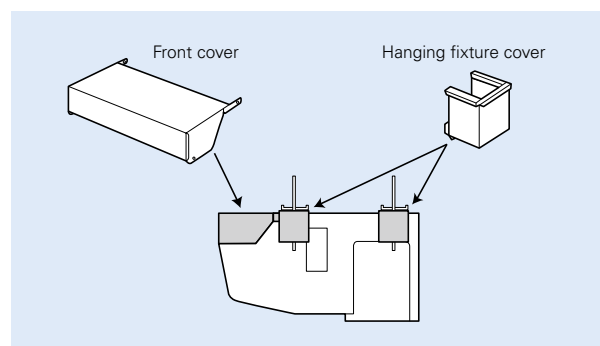
Easy Maintenance – Even for Cleaning the Fan

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.



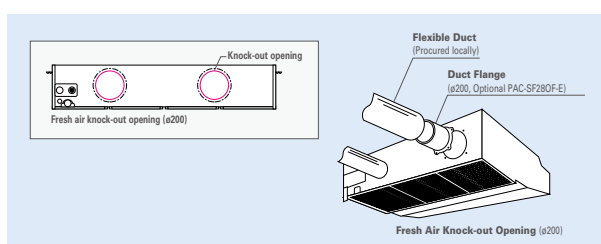
Cosmetic Front and Hanging Fixture Covers (Option)

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*

* PAR-SA9CA is also required.

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*

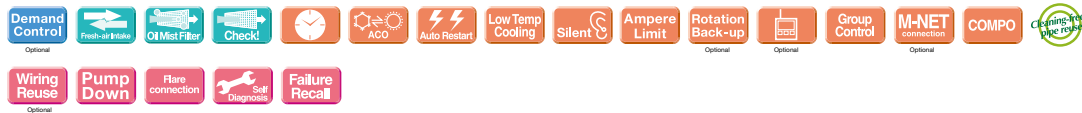
* PAR-SA9CA is also required.

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				A+	
Heating	Capacity	Rated	kW	7.6	
		Min-Max	kW	3.5 - 10.2	
	Total Input	Rated	kW	2.171	
	COP			3.50	
	Design load		kW	4.7	
	Declared Capacity	at reference design temperature	kW	4.7 (-10°C)	
		at bivalent temperature	kW	4.7 (-10°C)	
		at operation limit temperature	kW	3.4 (-20°C)	
	Back up heating capacity		kW	0.0	
	Annual electricity consumption ⁽²⁾		kWh/a	1684	
SCOP ⁽⁴⁾				3.9	
Energy efficiency class				A	
Operating Current(Max)				19.4	
Indoor Unit	Input [cooling / Heating]	Rated	kW	0.10 / 0.10	
			A	0.43	
	Operating Current(Max)		A	0.43	
	Dimensions	H*W*D	mm	280-1136-650	
	Weight		kg	42	
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min	16-18	
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)	37-39	
	Sound Level (PWL)		dB(A)	57	
Outdoor Unit	Dimensions	H*W*D	mm	943-950-330(+25)	
			kg	67	
	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	
Ext.Piping	Diameter ⁽³⁾	Liquid/Gas	mm	9.52 / 15.88	
		Out-In	m	55	
	Max.Length	Out-In	m	30	
	Max.Height		°C	-15 ~ +46	
Guaranteed Operating Range (Outdoor)				-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.

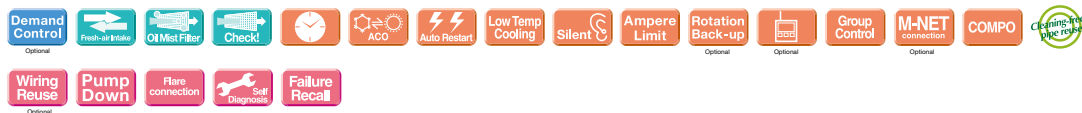
*3 Optional air protection guide is required where ambient temperature is lower than -5°C.

*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.

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				A+	
Heating	Capacity	Rated	kW	7.6	
		Min-Max	kW	3.5 - 10.2	
	Total Input	Rated	kW	2.350	
	COP			3.23	
	Design load		kW	4.7	
	Declared Capacity	at reference design temperature	kW	4.7 (-10°C)	
		at bivalent temperature	kW	4.7 (-10°C)	
		at operation limit temperature	kW	3.5 (-20°C)	
	Back up heating capacity		kW	0.0	
	Annual electricity consumption ⁽²⁾		kWh/a	1724	
SCOP ⁽⁴⁾				3.8	
Energy efficiency class				A	
Operating Current(Max)				19.4	
Indoor Unit	Input [cooling / Heating]	Rated	kW	0.10 / 0.10	
			A	0.43	
	Operating Current(Max)		A	0.43	
	Dimensions	H*W*D	mm	280-1136-650	
	Weight		kg	42	
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min	16-18	
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)	37-39	
	Sound Level (PWL)		dB(A)	57	
Outdoor Unit	Dimensions	H*W*D	mm	943-950-330(+30)	
			kg	70	
	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	
Ext.Piping	Diameter ⁽³⁾	Liquid/Gas	mm	9.52 / 15.88	
		Out-In	m	50	
	Max.Length	Out-In	m	30	
	Max.Height		°C	-15 ~ +46	
Guaranteed Operating Range (Outdoor)				-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 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.



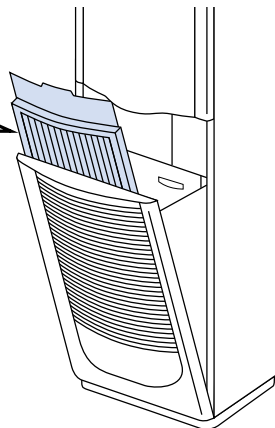
Built-in MA smart remote controller

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.



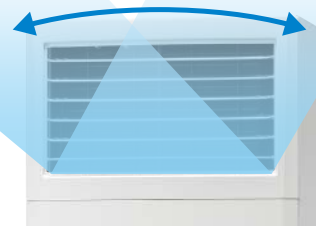
A wide airflow range with horizontal swinging

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

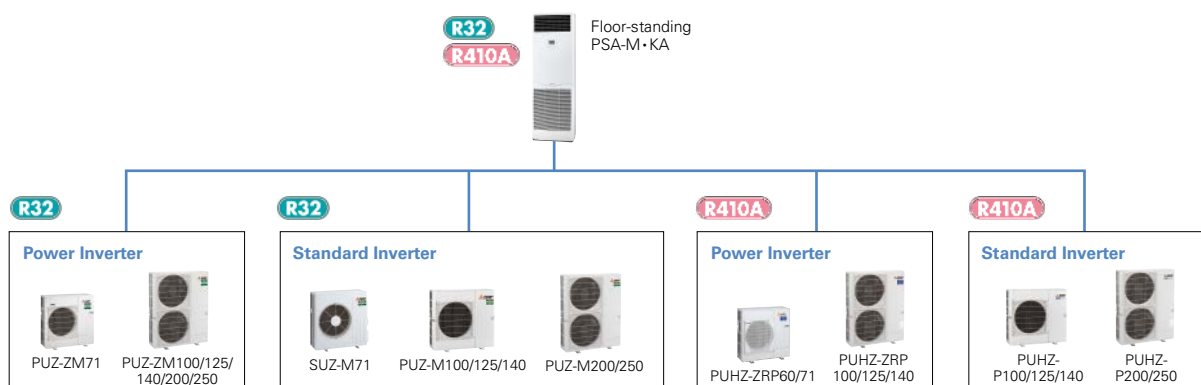
The horizontal-swinging louvers provide wide coverage for improved comfort.

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*

* PAR-SA9CA-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*

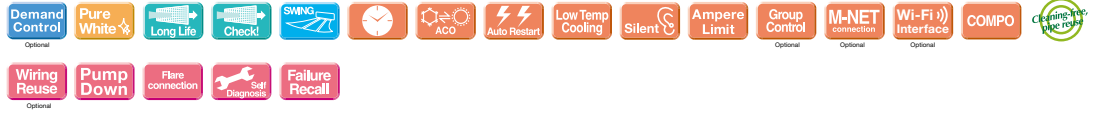
* PAR-SA9CA-E is also required.

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-111R2-F	—	—	

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-ZM100YKA2	PUZ-ZM125VKA2	PUZ-ZM125YKA2	PUZ-ZM140VKA2	PUZ-ZM140YKA2		
Refrigerant ⁽¹⁾			R32								
Power Supply Cooling	Source		Outdoor power supply								
	Outdoor(V/Phase/Hz)		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	kW	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0	
	Total Input	Rated	kW	1.888	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	—	—	—	—	
	SEER ⁽⁴⁾			6.4	5.7	5.6	—	—	—	—	
		Energy efficiency class		A++	A+	A+	—	—	—	—	
Heating	Capacity	Rated	kW	7.6	11.2	11.2	14.0	14.0	16.0	16.0	
		Min-Max	kW	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	kW	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	—	—	—	—	
	SCOP ⁽⁴⁾			4.0	4.1	4.1	—	—	—	—	
		Energy efficiency class		A+	A+	A+	—	—	—	—	
Operating Current(Max)		A	19.4	20.7	8.7	27.2	9.7	30.7	12.5		
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	0.11 / 0.11	
	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)	
Outdoor Unit	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	
	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	
		Heating	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	
	Ext.Piping	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
Max.Length		Out-In	m	55	100	100	100	100	100	100	
Max.Height		Out-In	m	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	
	Heating	°C	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21		

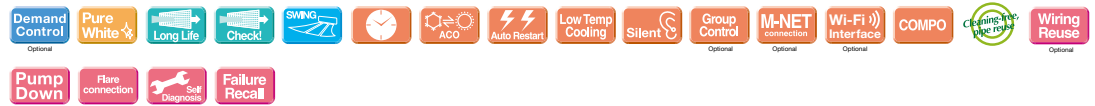
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*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

*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-M100YKA2	PUZ-M125VKA2	PUZ-M125YKA2	PUZ-M140VKA2	PUZ-M140YKA2	
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	kW	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	kW	1.972	2.686	2.686	4.481	4.481	5.037	5.037	
		EER	Rated		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	—	—	—	—	
		SEER ⁽⁴⁾		6.3	5.5	5.5	—	—	—	—	
		Energy efficiency class		A++	A	A	—	—	—	—	
	Heating	Capacity	Rated	kW	8.0	11.2	11.2	13.5	13.5	15.0	15.0
			Min-Max	kW	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			kW	2.492	3.246	3.246	4.355	4.355	4.761	4.761	
COP			Rated		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	—	—	—	—	
	SCOP ⁽⁴⁾		4.0	4.0	4.0	—	—	—	—		
	Energy efficiency class		A+	A+	A+	—	—	—	—		
Operating Current(Max)				A	15.2	20.7	12.2	27.2	12.2	30.7	12.2
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	0.11 / 0.11	
	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)	
Outdoor Unit	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	
	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	
		Heating	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	
	Ext.Piping	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
Max.Length		Out-In	m	30	55	55	65	65	65	65	
Max.Height		Out-In	m	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	
	Heating	°C	-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 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*

* PAR-SA9CA-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*

* PAR-SA9CA-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	—	—		

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	Source			Outdoor power supply						
Cooling	Outdoor(V/Phase/Hz)			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	kW	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0
	Total Input	Rated	kW	1.890	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)		kWh/a	394	584	595	—	—	—	—
	SEER ^(*)4)			6.3	5.6	5.5	—	—	—	—
	Energy efficiency class			A++	A+	A	—	—	—	—
Heating	Capacity	Rated	kW	7.6	11.2	11.2	14.0	14.0	16.0	16.0
		Min-Max	kW	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
	Total Input	Rated	kW	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	kW	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	—	—	—	—
		at bivalent temperature	kW	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	—	—	—	—
		at operation limit temperature	kW	3.5 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	—	—	—	—
	Back up heating capacity		kW	0.0	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	0.11 / 0.11
	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
Outdoor Unit	Dimensions	H*W*D	mm	943-950-330(+30)	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	70	116	123	116	125	118	131
	Air Volume	Cooling	m³/min	55	110	110	120	120	120	120
		Heating	m³/min	55	110	110	120	120	120	120
	Sound Level (SPL)	Cooling	dB(A)	47	49	49	50	50	50	50
		Heating	dB(A)	48	51	51	52	52	52	52
	Sound Level (PWL)	Cooling	dB(A)	67	69	69	70	70	70	70
	Operating Current(Max)		A	19	26.5	8	26.5	9.5	28	13
	Breaker Size		A	25	32	16	32	16	40	16
	Ext.Piping	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
Max.Length		Out-In	m	50	75	75	75	75	75	75
Max.Height		Out-In	m	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
			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.

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	Source		Outdoor power supply							
Cooling	Outdoor(V/Phase/Hz)		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	kW	3.7 - 10.6	3.7 - 10.6	5.6 - 13.0	5.6 - 13.0	5.8 - 13.7	5.8 - 13.7	
	Total Input	Rated	kW	3.122	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)		kWh/a	644	644	—	—	—	—	
	SEER ^(*)4)			5.1	5.1	—	—	—	—	
		Energy efficiency class		A	A	—	—	—	—	
Heating	Capacity	Rated	kW	11.2	11.2	13.5	13.5	15.0	15.0	
		Min-Max	kW	2.8 - 12.5	2.8 - 12.5	4.8 - 15.0	4.8 - 15.0	4.9 - 15.8	4.9 - 15.8	
	Total Input	Rated	kW	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	kW	6.0 (-10°C)	6.0 (-10°C)	—	—	—	—	
		at bivalent temperature	kW	7.0 (-7°C)	7.0 (-7°C)	—	—	—	—	
		at operation limit temperature	kW	4.5 (-15°C)	4.5 (-15°C)	—	—	—	—	
	Back up heating capacity		kW	2.0	2.0	—	—	—	—	
	Annual electricity consumption ^(*)2)		kWh/a	2797	2797	—	—	—	—	
	SCOP ^(*)4)			4.0	4.0	—	—	—	—	
	Energy efficiency class		A+	A+	—	—	—	—		
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	
	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	
	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	
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)	45-49-51	45-49-51	45-49-51	45-49-51	45-49-51	45-49-51	
	Sound Level (PWL)		dB(A)	65	65	66	66	66	66	
	Dimensions	H*W*D	mm	981-1050-330	981-1050-330	981-1050-330	981-1050-330	981-1050-330	981-1050-330	
Outdoor Unit	Weight		kg	76	78	84	85	85	85	
	Air Volume	Cooling	m³/min	79	79	86	86	86	86	
		Heating	m³/min	79	79	92	92	92	92	
	Sound Level (SPL)	Cooling	dB(A)	51	51	54	54	56	56	
		Heating	dB(A)	54	54	56	56	57	57	
	Sound Level (PWL)	Cooling	dB(A)	70	70	72	72	75	75	
		Operating Current(Max)		A	20	11.5	26.5	11.5	30	11.5
	Breaker Size		A	32	16	32	16	40	16	
	Ext.Piping	Diameter ^(*)8)	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
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	-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

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-AY25-50 MSZ-AP60VG MSZ-AP15-20 MSZ-BT	Floor-standing MFZ-KT SFZ	2-port up to 2 indoor units MXZ-2F33VF4 MXZ-2F42VF4 MXZ-2F53VF(H)4 MXZ-2F53VFHZ2		3-port up to 3 indoor units MXZ-3F54VF4 MXZ-3F68VF4
		4-port up to 4 indoor units MXZ-4F72VF4 MXZ-4F80VF4 MXZ-4F83VF2 MXZ-4F83VFHZ2		
Cassette SLZ MLZ-KP MLZ-KY	Ceiling-suspended PCA Ceiling-concealed SEZ PEAD	5-port up to 5 indoor units MXZ-5F102VF2		6-port up to 6 indoor units MXZ-6F120VF2

R410A INDOOR UNITS		R410A OUTDOOR UNITS		
Wall-mounted MSZ-LN (25·35) MSZ-AY25-50 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		
Cassette SLZ MLZ-KP PLA	5-port up to 5 indoor units MXZ-5E102VA	6-port up to 6 indoor units MXZ-6D122VA2		

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-2F33VF4
MXZ-2F42VF4
MXZ-2F53VF(H)4



R32

3-port 4-port

MXZ-3F54VF4
MXZ-3F68VF4
MXZ-4F72VF4
MXZ-4F80VF4



R32

4-port 5-port

MXZ-4F83VF2
MXZ-5F102VF2



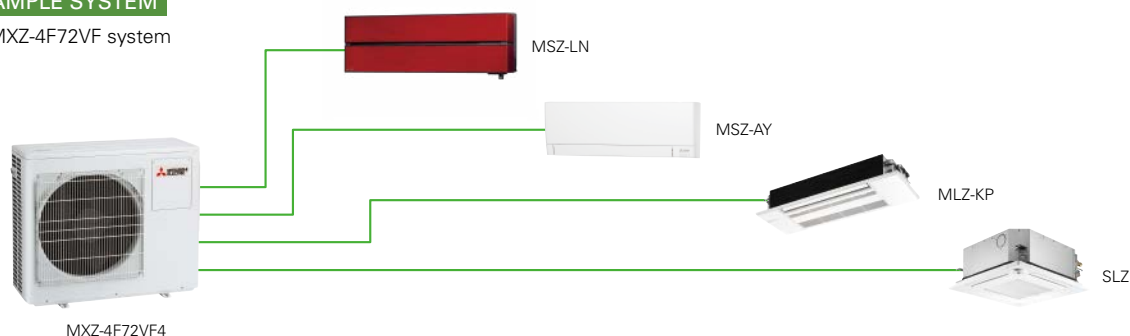
R32

6-port

MXZ-6F120VF2

EXAMPLE SYSTEM

MXZ-4F72VF system



Units can be used even if it is connected to only one indoor unit (4F83/5F102/6F120)

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

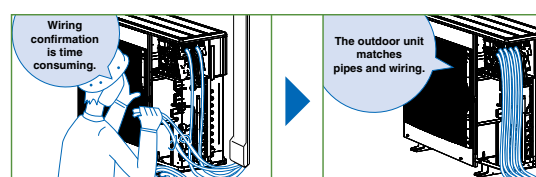
The MXZ Series for R32 offers a ten-system line-up to choose from, ranging between 3.3 and 12.0kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

Support Functions

Wiring/Piping Correction Function* (3F54/3F68/4F72/4F80/4F83/5F102/6F120)

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-2F33VF4	MXZ-2F42VF4	MXZ-2F53VF4	MXZ-2F53VFH4	MXZ-3F54VF4	MXZ-3F68VF4	MXZ-4F72VF4	MXZ-4F80VF4	MXZ-4F83VF2	MXZ-5F102VF2
Refrigerant				R32									
Power Supply	Source	Outdoor power supply											
	Outdoor (V/Phase/Hz)	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
	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*1	kWh/a		189	169	216	216	222	301	311	368	342	436
	SEER*3			6.1	8.7	8.6	8.6	8.5	7.9	8.1	7.6	8.5	8.2
		Energy Efficiency Class*3		A++	A+++	A+++	A+++	A+++	A++	A++	A++	A+++	A++
Heating	Capacity	Rated	kW	4.0	4.5	6.4	6.4	7.0	8.6	8.6	8.8	9.3	10.5
	Input	Rated	kW	0.91	0.88	1.56	1.56	1.40	1.91	1.87	2.00	2.00	2.28
	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	4.8	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*1	kWh/a		944	1065	1065	1089	1583	2321	2389	2389	2087	2205
	SCOP*3			4.0	4.6	4.6	4.5	4.6	4.1	4.1	4.1	4.7	4.6
			Energy Efficiency Class*3		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 - 330 (+66)				796 - 950 - 330	
	Weight		kg	33	37	37	38	58	58	59	59	62	62
	Air Volume	Cooling	m³/min	30.8	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
	Breaker Size		A	15	15	15	15	25	25	25	25	25	25
Ext. Piping	Port 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 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	12.7 x 1+9.52 x 3	12.7 x 1+9.52 x 3	12.7 x 1+9.52 x 3	12.7 x 1+9.52 x 4
	Total Piping Length (max)	m	20	30	30	30	30	50	60	60	70	80	
	Each Indoor Unit Piping Length (max)	m	15	20	20	20	20	25	25	25	25	25	25
	Max. Height	m	10	15 (10)*2	15 (10)*2	15 (10)*2	15 (10)*2	15 (10)*2	15 (10)*2	15 (10)*2	15	15	
	Chargeless Length	m	20	30	30	30	30	50	60	60	70	80	
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
Refrigerant/GWP				R32/675*4	R32/675*4	R32/675*4	R32/675*4	R32/675*4	R32/675*4	R32/675*4	R32/675*4	R32/675*3	R32/675*3
Pre-Charged Quantity		Weight	kg	0.8	1.0	1.0	1.0	2.4	2.4	2.4	2.4	2.4	2.4
		CO ₂ equivalent	t	0.54	0.68	0.68	0.68	1.62	1.62	1.62	1.62	1.62	1.62
Max Added Quantity		Weight	kg	0.8	1.0	1.0	1.0	2.4	2.4	2.4	2.4	2.4	2.4
		CO ₂ equivalent	t	0.54	0.68	0.68	0.68	1.62	1.62	1.62	1.62	1.62	1.62

*1 Energy consumption based on standard test results.

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

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

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

MXZ-2F33VF4 MSZ-AP15VG + MSZ-LN18VG2
 MXZ-2F42VF4 MSZ-LN18VG2 + MSZ-LN25VG2
 MXZ-2F53VF4/VFH4 MSZ-LN18VG2 + MSZ-LN35VG2
 MXZ-3F54VF4 MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2
 MXZ-3F68VF4 MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2
 MXZ-4F72VF4 MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2
 MXZ-4F80VF4 MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2
 MXZ-4F83VF2 MSZ-LN18VG + MSZ-LN18VG + MSZ-LN25VG + MSZ-LN25VG
 MXZ-5F102VF2 MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2

*4 This GWP value is based on Regulation(EU) No 517/2014 from IPCC 4th edition.

Type (Inverter Multi - Split Heat Pump)				Up to 6 Indoor Units	
Indoor Unit				Please refer to*1	
Outdoor Unit				MXZ-6F120VF2	
Refrigerant				R32	
Power Supply				Outdoor power supply	
Source Outdoor (V/Phase/Hz)				220 - 230 - 240V / Single / 50Hz	
Cooling	Capacity	Rated	kW	12.0	
	Input	Rated	kW	3.60	
	EER*1			3.33	
	Capacity	Rated	kW	14.0	
Heating	Capacity	Rated	kW	14.0	
		Min-Max	kW	3.5 - 16.5	
	Input	Rated	kW	3.31	
	COP*1			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	
		Heating	dB(A)	74	
Ext. Piping	Breaker Size	A	32		
	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		
Refrigerant/GWP				R32/675*2	
Pre-Charged Quantity	Weight	kg	2.4		
	CO ₂ equivalent	t	1.62		
Max Added Quantity	Weight	kg	2.4		
	CO ₂ equivalent	t	1.62		

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

MXZ-6F120VF2

[EER/COP] MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ

*2 This GWP value is based on Regulation (EU) No 517/2014 from IPCC 4th edition.

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



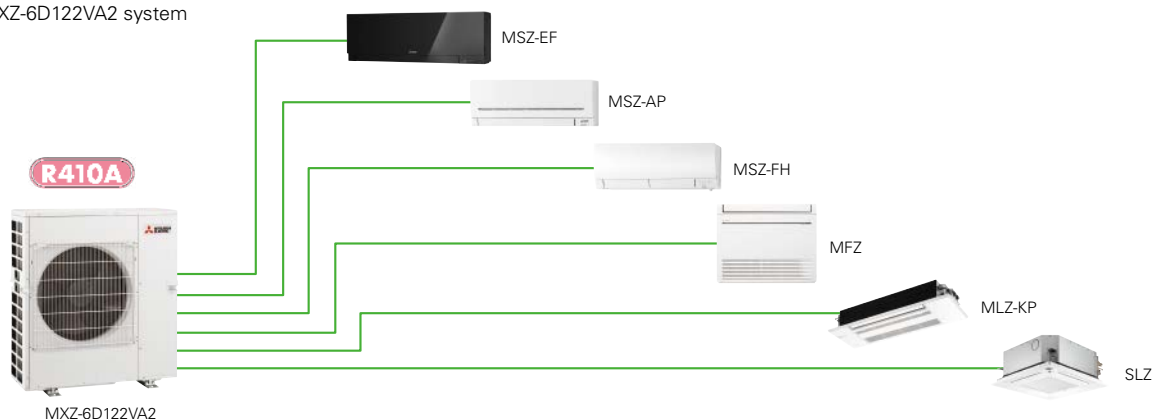
R410A

6-port

MXZ-6D122VA2

EXAMPLE SYSTEM

MXZ-6D122VA2 system



Handle Up to 6 Rooms with a Single Outdoor Unit

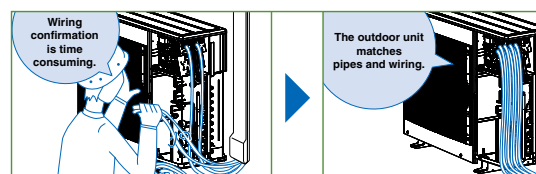
The MXZ Series offers a nine-system line-up to choose from, ranging between 3.3 and 12.2kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

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, *6			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++	
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, *6		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	50	49	52
		Heating	dB(A)	50	51	53	53	53	53	53	51	56
	Sound Level (PWL)	Cooling	dB(A)	63	60	64	64	64	64	64	61	65
	Breaker Size	A	10	15	15	15	25	25	25	25	25	
	Ext. Piping	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
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	30	50	60	60	70	80	
Each Indoor Unit Piping Length (max)		m	15	20	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	15 (10)*3	
Chargeless Length		m	20	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 *4		
Outdoor Unit				MXZ-6F120VF2		
Refrigerant				R32*1		
Power Supply		Source		Outdoor power supply		
		Outdoor (V/Phase/Hz)		220 - 230 - 240V / Single / 50Hz		
Cooling	Capacity	Rated	kW	12.0		
		Min - Max	kW	3.5 - 14.0		
	Input (Indoor+Outdoor)*5		Rated	kW	3.60	
	Design Load		kW	12.0		
	Annual Electricity Consumption*2		kWh/a	612		
	SEER*4, *6			6.86		
			Energy Efficiency Class*4		A++	
Heating (Average Season)	Capacity	Rated	kW	14.0		
		Min - Max	kW	3.5 - 16.5		
	Input (Indoor+Outdoor)		Rated	kW	3.31	
	Design Load		kW	8.1		
	Declared Capacity	at reference design temperature		kW	6.9	
		at bivalent temperature		kW	7.6	
		at operation limit temperature		kW	5.7	
	Back Up Heating Capacity		kW	1.2		
	Annual Electricity Consumption*2		kWh/a	2794		
SCOP*4, *6			4.06			
		Energy Efficiency Class*4		A+		
Max. Operating Current (Indoor+Outdoor)			A	29.8		
Outdoor Unit	Dimensions	H x W x D	mm	1048 - 950 - 330		
	Weight		kg	87		
	Air Volume	Cooling	m ³ /min	63		
		Heating	m ³ /min	77		
	Sound Level (SPL)	Cooling	dB(A)	55		
		Heating	dB(A)	57		
	Sound Level (PWL)	Cooling	dB(A)	69		
		Operating Current	Cooling	A	16.4 - 15.7 - 15.1	
			Heating	A	15.2 - 14.5 - 13.9	
	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		

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
1 unit	~20m	1250g
2 units	100g additional (Total 1250g)	1250g
3 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
1 unit	~20m	1600g
2 units	100g additional (Total 1400g)	1600g
3 units	200g additional (Total 1500g)	1700g

MXZ-3E54VA

No. of MFZ-KJ indoor units	Pipe length (L)	Maximum amount of refrigerant
1 unit	~40m	3000g
2 units	100g additional (Total 2800g)	3000g
3 units	200g additional (Total 2900g)	3100g
4 units	300g additional (Total 3000g)	3200g

MXZ-3E68VA MXZ-4E72VA

No. of MFZ-KJ indoor units	Pipe length (L)	Maximum amount of refrigerant
1 unit	~40m	3200g
2 units	100g additional (Total 2800g)	3200g
3 units	200g additional (Total 2900g)	3300g
4 units	300g additional (Total 3000g)	3400g

*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 + MSZ-EF22VE

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

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

MXZ-HA SERIES

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



R32

2-port

MXZ-2HA40VF2
MXZ-2HA50VF2



R32

3-port

MXZ-3HA50VF2

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.



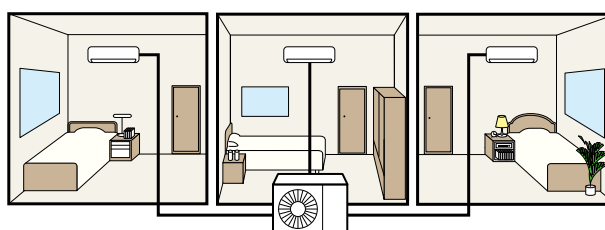
Easy to create various combinations

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

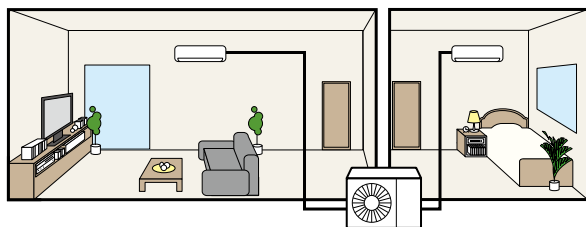
Two bedrooms



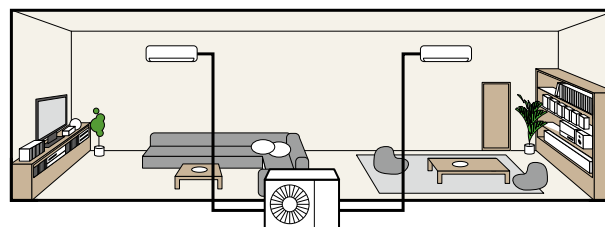
Three bedrooms



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*3		
Outdoor Unit				MXZ-2HA40VF2	MXZ-2HA50VF2	MXZ-3HA50VF2
Refrigerant				R32		
Power Supply	Source			Outdoor power supply		
	Outdoor (V/Phase/Hz)			220 - 230 - 240V / Single / 50Hz		
Cooling	Capacity	Rated	kW	4.0	5.0	5.0
		Min-Max	kW	1.1 - 4.3	1.1 - 5.4	2.9 - 6.5
	Input	Rated	kW	1.05	1.52	1.26
		Design Load	kW	4.0	5.0	5.0
	Annual Electricity Consumption *2		kWh/a	172	225	241
	SEER*1			8.12	7.78	7.26
	Energy Efficiency Class*3			A++	A++	A++
Heating	Capacity	Rated	kW	4.3	6.0	6.0
		Min-Max	kW	1.0 - 4.7	1.0 - 6.4	2.6 - 7.5
	Input	Rated	kW	0.91	1.54	1.30
		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*3			4.30	4.30	4.02
	Energy Efficiency Class*3			A+	A+	A+
Max. Operating Current (Indoor+Outdoor)			A	12.2	12.2	18.0
Outdoor Unit	Dimensions	H x W x D	mm	550 - 800 (+69) - 285 (+59.5)		710 - 840 - 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
	Breaker Size		A	15	15	25
Ext. Piping	Port Diameter	Liquid	mm	6.35 x 2	6.35 x 2	6.35 x 3
		Gas	mm	9.52 x 2	9.52 x 2	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)*2	15(10)*2	15(10)*2
	Chargeless Length		m	30	30	40
Guaranteed Operating Range [Outdoor]		Cooling	°C	-10 ~ +46		
		Heating	°C	-15 ~ +24		
Chargeless Length				R32/675*4	R32/675*4	R32/675*4
Pre-Charged Quantity	Weight	Kg	0.9	0.9	1.4	
	CO2 equivalent	t	0.61	0.61	0.95	
Max Added Quantity	Weight	Kg	0.9	0.9	1.6	
	CO2 equivalent	t	0.61	0.61	1.08	

*1 Energy consumption based on standard test results.

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

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

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

MXZ-2HA40VF2 → MSZ-HR25VF + MSZ-HR25VF

MXZ-2HA50VF2 → MSZ-HR25VF + MSZ-HR25VF

MXZ-3HA50VF2 → MSZ-HR25VF + MSZ-HR25VF + MSZ-HR25VF

*4 This GWP value is based on Regulation(EU) No 517/2014 from IPCC 4th edition,

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

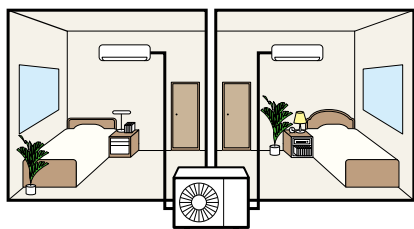
A stylish flat panel design is employed for the front of the indoor unit. The simple look matches room aesthetics.



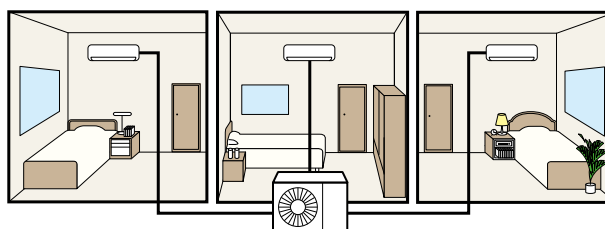
Easy to create various combinations

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

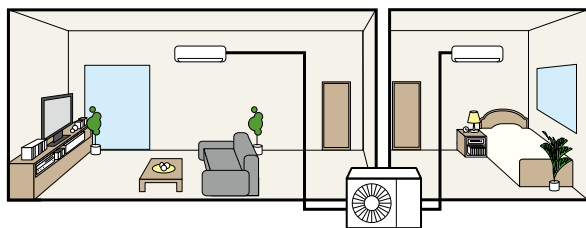
Two bedrooms



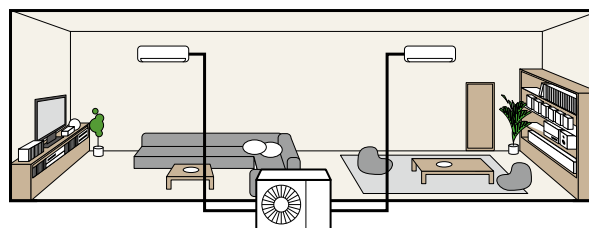
Three bedrooms



Living room and one bedroom



Wide living room

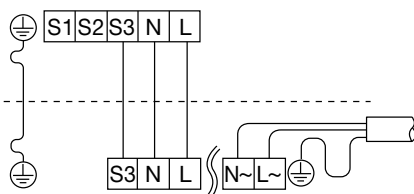


Attention MXZ-DM is exclusively for connection to MSZ-HJ and DM. Please check to make sure that wiring is done correctly.

For MXZ-DM

MSZ-HJ/DM

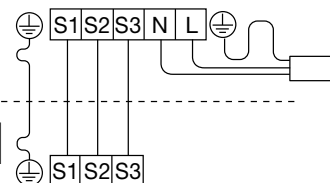
MXZ-2DM
MXZ-3DM



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 Supply				Outdoor power supply	
Source				230 / Single / 50	
Outdoor (V/Phase/Hz)					
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

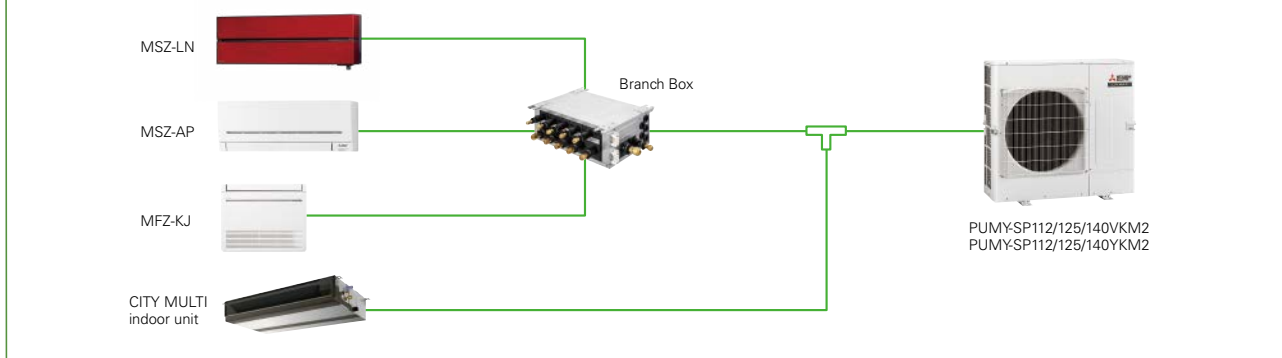
Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.



R410A

PUMY-SP112/125/140VKM2
PUMY-SP112/125/140YKM2

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-P112/125/140YKM5(-BS)

Height 1,338mm
Weight 125kg

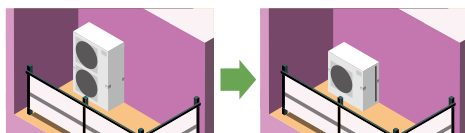


PUMY-SP112/125/140YKM2(-BS)

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

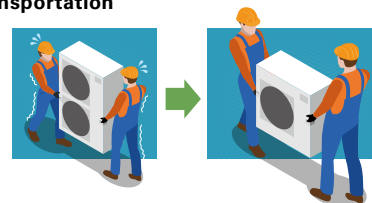
Unobstructive, compact, and easy to hide from view

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.



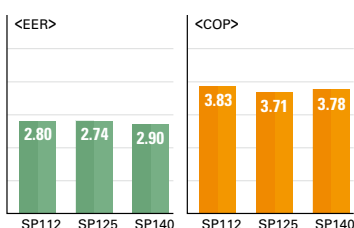
Easy installation and transportation

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.



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.

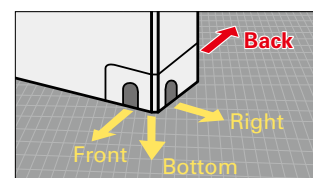
*PAC-SC36NA-E is required to activate Super Silent mode.

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.

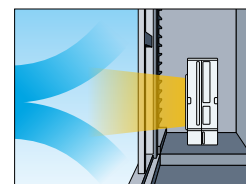
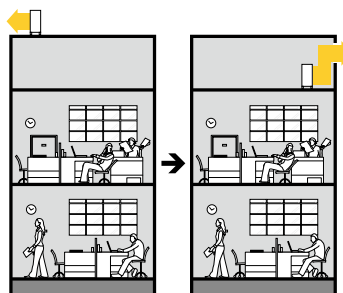
The out-door unit with an expanded piping layout flexibility greatly improves piping workability.



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.

PUMY-SP SERIES

INVERTER MULTI



Model	PUMY-SP112VKM2 (-BS)	PUMY-SP125VKM2 (-BS)	PUMY-SP140VKM2 (-BS)	PUMY-SP112YKM2 (-BS)	PUMY-SP125YKM2 (-BS)	PUMY-SP140YKM2 (-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
	Power Input kW	4.46	5.11	5.34	4.46	5.11
	Current Input A	20.69 - 19.79 - 18.97, 20.69	23.71 - 22.68 - 21.73, 23.71	24.77 - 23.70 - 22.71, 24.77	7.14 - 6.78 - 6.54, 7.14	8.18 - 7.77 - 7.49, 8.18
	EER kW / kW	2.80	2.74	2.90	2.80	2.74
Temp. Range of Cooling	Indoor Temp. W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Outdoor Temp.*2	D.B. -5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating Capacity (Nominal)	*3 kW	14.0	16.0	16.5	14.0	16.0
	Power Input kW	3.66	4.31	4.36	3.66	4.31
	Current Input A	16.98 - 16.24 - 15.57, 16.98	20.00 - 19.13 - 18.33, 20.00	20.23 - 19.35 - 18.54, 20.23	5.86 - 5.57 - 5.36, 5.86	6.90 - 6.55 - 6.32, 6.90
	COP kW / kW	3.83	3.71	3.78	3.83	3.71
Temp. Range Of Heating	Indoor Temp. D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Outdoor Temp. W.B.	-20.0~15.0°C (-4~59°F)	-20.0~15.0°C (-4~59°F)	-20.0~15.0°C (-4~59°F)	-20.0~15.0°C (-4~59°F)	-20.0~15.0°C (-4~59°F)
Indoor Unit Connectable	Total Capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity
	Model / Quantity	City Multi*4 Branch Box*5	10~140 / 12 15 - 100 / 8	10 - 140 / 12 15 - 100 / 8	10 - 140 / 12 15 - 100 / 8	10 - 140 / 12 15 - 100 / 8
	Mixed System	City Multi Branch Box*5	10 - 140 / 5 15 - 100 / 5	10 - 140 / 5 15 - 100 / 5	10 - 140 / 5 15 - 100 / 5	10 - 140 / 5 15 - 100 / 5
	Branch Box 2 units	City Multi Branch Box*5	10 - 140 / 3 15 - 100 / 8	10 - 140 / 3 15 - 100 / 8	10 - 140 / 3 15 - 100 / 8	10 - 140 / 3 15 - 100 / 8
Sound Pressure Level (Measured In Anechoic Room)	dB <A>	52/54	53/56	54/56	52/54	53/56
Sound Power Level (Measured In Anechoic Room)	dB <A>	72/74	73/76	74/76	72/74	73/76
Refrigerant Piping Diameter	Liquid Pipe mm (in.)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe mm (in.)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Fan	Type x Quantity	Propeller Fan x 1				
	Air Flow Rate	m³/min	77	83	83	77
		L/s	1,283	1,383	1,383	1,283
		cfm	2,719	2,931	2,931	2,719
	Motor Output kW	0.20 x 1	0.20 x 1	0.20 x 1	0.20 x 1	0.20 x 1
Compressor	External Static Press.	0Pa / 30Pa*6	0Pa / 30Pa*6	0Pa / 30Pa*6	0Pa / 30Pa*6	0Pa / 30Pa*6
	Type x Quantity	Twin rotary hermetic compressor x 1				
	Starting Method	Inverter				
External dimension H x W x D	Motor Output kW	3.9	3.9	4.2	3.9	4.1
	mm	981 x 1,050 x 330 (+40)				
	in.	38-5/8 x 41-3/8 x 13 (+1-37/64)				
Net Weight	kg (lbs)	93 (205)*7			94 (207)*8	

*1,*3 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

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

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

*6 0 Pa as initial setting

*7 94 (207), for PUMY-SP112/125/140YKM2-BS

*8 95 (209), for PUMY-SP112/125/140YKM2-BS

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 x W x D mm	170 x 450 x 280
Weight	kg	7.4
Piping Connection (Flare)	Branch [Indoor Side]	Liquid mm ø6.35 x 5
		Gas mm ø9.52 x 4, ø12.7 x 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.)

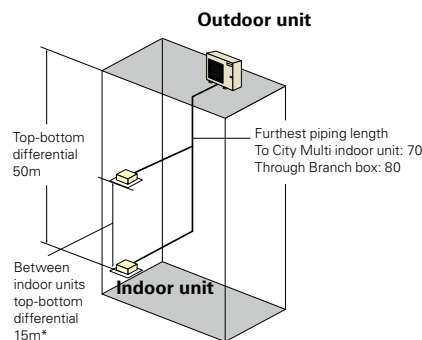
<Branch box compatible table>

Branch box		PAC-MK31/ 51BC(B)	PAC-MK32/ 52BC(B)	PAC-MK33/ 53BC(B)	PAC-MK33/ 54BC
Outdoor unit					
Outdoor unit 1fan	PUMY-SP112/125/140V/YKM2(-BS)	N/A	N/A	✓*	✓*
Outdoor unit 2fan	PUMY-P112/125/140VKM6(-BS)	N/A	N/A	✓	✓
	PUMY-P112/125/140YKM5(-BS)	N/A	N/A	✓	✓
	PUMY-P200YKM3(-BS)	N/A	N/A	✓*	✓*
	PUMY-P250/300YBM2(-BS)	N/A	N/A	✓*	✓*

*ecodan is NG

[SP112~140V/YKM2(-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*



PUMY-P SERIES

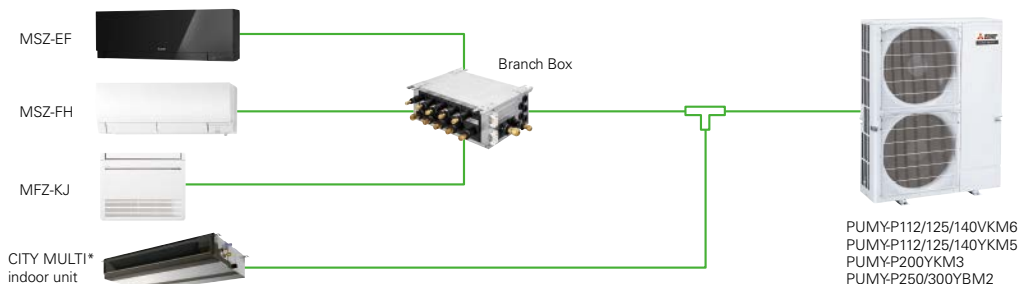
Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.



R410A

PUMY-P112/125/140VKM6
PUMY-P112/125/140YKM5
PUMY-P200YKM3
PUMY-P250/300YBM2

EXAMPLE SYSTEM



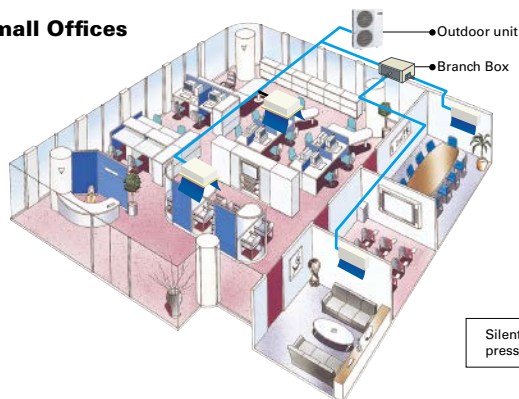
*In case of mix system (CITY MULTI indoor unit with Branch box), PKFY and PFFY series are not connectable. (P112/125/140/250/300)

The two-pipe zoned system designed for Heat Pump Operation

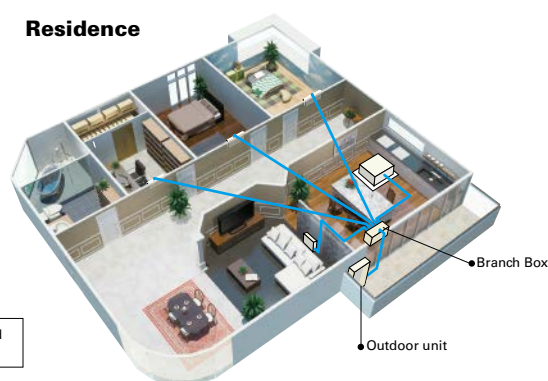
PUMY series make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively.

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
	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
		Indoor/Outdoor (Outdoor Lower)	50	50	50	—
		Indoor/Outdoor (Outdoor Lower)	40*2	40	40	—
		Indoor/Indoor	15	12	12	—
P200	Refrigerant Piping Length	Total Length	150	150	150	—
		Maximum Allowable Length	80 (90 equivalent)	80	80 (90 equivalent)	80
		Farthest Indoor From First Branch	30	—	30	—
		Piping Length Between Outdoor Unit and Branch Boxes	—	55	—	55
		Indoor/Outdoor (Outdoor higher)	50	50	50	—
		Indoor/Outdoor (Outdoor Lower)	40	40	40	—
P250/300	Refrigerant Piping Length	Total Length	310	240	310	—
		Maximum Allowable Length	150 (175 equivalent)	80	85 (95 equivalent)	80
		Farthest Indoor From First Branch	30	—	30	—
		Piping Length Between Outdoor Unit and Branch Boxes	—	95	—	95
		Indoor/Outdoor (Outdoor higher)	50	50	50	—
		Indoor/Outdoor (Outdoor Lower)	40	40	40	—
	Vertical Differentials Between Units	Indoor/Outdoor (Outdoor Lower)	40	40	40	—
		Indoor/Indoor	15	12	12	—

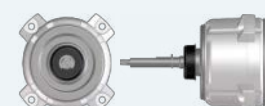
*1 Include system with connection kit *2 In case of including PKFY or PFFY, height between units is 30m.

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-P112/125/140VKM6(-BS), PUMY-P112/125/140YKM5(-BS) only.
* Noise level will increase when using this function.

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





Model			PUMY-P112VKM6 (-BS)	PUMY-P125VKM6 (-BS)	PUMY-P140VKM6 (-BS)	PUMY-P112YKM5 (-BS)	PUMY-P125YKM5 (-BS)	PUMY-P140YKM5 (-BS)	PUMY-P200YKM3 (-BS)	PUMY-P250YBM2 (-BS)	PUMY-P300YBM2 (-BS)	
Power Source			1-phase 220-230-240V 50Hz, 220-230V 60Hz			3-phase 380-400-415V 50Hz, 380V 60Hz			3-phase 380-400-415V 50Hz			
Cooling Capacity (Nominal)	Power Input	kW	12.5	14.0	15.5	12.5	14.0	15.5	22.4	28.0	33.5	
		kVA	4.34	5.00	5.17	4.34	5.00	5.17	7.18	8.21	11.96	
		A	20.03-19.16-18.36-20.03-19.16	23.08-22.08-21.16-23.08-22.08	23.86-22.83-21.81-23.86-22.83	7.76-7.37-7.11, 7.76	8.45-8.02-7.73, 8.45	8.27-7.86-7.58, 8.27	11.73-11.15-10.75	13.41-12.74-12.28	19.54-18.56-17.89	
Temp. Range of Cooling	EER	kW / kW	2.88	2.80	3.00	2.88	2.80	3.00	3.12	3.41	2.80	
	Indoor Temp.	W.B.	15.0-24.0°C (59-75°F)	15.0-24.0°C (59-75°F)	15.0-24.0°C (59-75°F)	15.0-24.0°C (59-75°F)	15.0-24.0°C (59-75°F)	15.0-24.0°C (59-75°F)	15.0-24.0°C (59-75°F)	15.0-24.0°C (59-75°F)	15.0-24.0°C (59-75°F)	
Heating Capacity (Nominal)	Outdoor Temp.*-2	D.B.	-5.0-52.0°C (23-126°F)	-5.0-52.0°C (23-126°F)	-5.0-52.0°C (23-126°F)	-5.0-52.0°C (23-126°F)	-5.0-52.0°C (23-126°F)	-5.0-52.0°C (23-126°F)	-5.0-52.0°C (23-126°F)	-5.0-52.0°C (23-126°F)	-5.0-52.0°C (23-126°F)	
		Power Input	kW	14.0	16.0	18.0	14.0	16.0	18.0	25.0	31.5	37.5
		Current Input	A	16.11-15.41-14.72-16.11-15.41	18.74-17.83-17.18-18.74-17.83	21.37-20.44-19.59-21.37-20.44	6.24-5.93-5.72, 6.24	6.86-6.52-6.28, 6.86	7.41-7.04-6.79, 7.41	9.56-9.08-8.76	12.92-12.28-11.83	15.83-15.04-14.50
COP	kW / kW	4.01	3.94	3.89	4.01	3.94	3.89	4.27	3.98	3.87		
	Indoor Temp.	D.B.	15.0-27.0°C (59-81°F)	15.0-27.0°C (59-81°F)	15.0-27.0°C (59-81°F)	15.0-27.0°C (59-81°F)	15.0-27.0°C (59-81°F)	15.0-27.0°C (59-81°F)	15.0-27.0°C (59-81°F)	15.0-27.0°C (59-81°F)	15.0-27.0°C (59-81°F)	
Temp. Range Of Heating	Outdoor Temp.	W.B.	20.0-15.0°C (4-59°F)	20.0-15.0°C (4-59°F)	20.0-15.0°C (4-59°F)	20.0-15.0°C (4-59°F)	20.0-15.0°C (4-59°F)	20.0-15.0°C (4-59°F)	20.0-15.0°C (4-59°F)	20.0-15.0°C (4-59°F)	20.0-15.0°C (4-59°F)	
Indoor Unit Connectable	Total Capacity		50-130 % of outdoor unit capacity	50-130 % of outdoor unit capacity	50-130 % of outdoor unit capacity	50-130 % of outdoor unit capacity	50-130 % of outdoor unit capacity	50-130 % of outdoor unit capacity	50-130 % of outdoor unit capacity	50-130 % of outdoor unit capacity	50-130 % of outdoor unit capacity	
	Model / Quantity		City Multi ^{1*} Branch Box ^{4*}	10 - 140 / 9	10 - 140 / 10	10 - 140 / 12	10 - 140 / 9	10 - 140 / 10	10 - 140 / 12	10 - 140 / 12	10 - 250 / 30	10 - 250 / 30
	Mixed System	Branch Box 1 unit	City Multi	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 50 / 12	15 - 50 / 12	
			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 2 units	15 - 100 / 5	15 - 100 / 5	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 ^{1*}	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3 or 2 ^{1*}	10 - 140 / 3	10 - 140 / 3	10 - 200 / 3	10 - 250 / 23	10 - 250 / 23
			Branch Box 2 units	15 - 100 / 7 or 8 ^{1*}	15 - 100 / 8	15 - 100 / 8	15 - 100 / 7 or 8 ^{1*}	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 50 / 10	15 - 50 / 10
			City Multi	-	-	-	-	-	-	-	10 - 250 / 22	10 - 250 / 22
			Branch Box 3 units	-	-	-	-	-	-	-	15 - 50 / 12	15 - 50 / 12
			City Multi	-	-	-	-	-	-	-	-	-
Sound Pressure Level (Measured In Anechoic Room)			dB <A>	49/51	50/52	51/53	49/51	50/52	51/53	57/61	55/61	57/62
Sound Power Level (Measured In Anechoic Room)			dB <A>	69/71	70/72	71/73	69/71	70/72	71/73	76/80	74/79	75/79
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)**	9.52 (3/8) **	12.7 (1/2)	
	Gas Pipe	mm (in.)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (4/3)	22.4 (7/8)	22.4 (7/8)
Fan	Type x Quantity	Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	
	Air Flow Rate	m ³ /min	110	110	110	110	110	110	110	139/141	165/183	165/183
		L/s	1.833	1.833	1.833	1.833	1.833	1.833	1.833	2,317/2,350	2,750/3,050	2,750/3,050
Compressor		cfm	3.884	3.884	3.884	3.884	3.884	3.884	3.884	4,909/4,979	5,826/6,462	5,826/6,462
	Motor Output	kW	0.074 x 2	0.074 x 2	0.074 x 2	0.074 x 2	0.074 x 2	0.074 x 2	0.074 x 2	0.20 x 2	0.375 x 2	0.375 x 2
	Type x Quantity	Scroll hermetic compressor x 1										
	Starting Method	Inverter										
External Dimension H x W x D	Motor Output	kW	2.9	3.5	3.9	2.9	3.5	3.9	5.3	8.87	10.15	
		mm	1,338 x 1,050 x 330 (+40)								1,662 x 1,050 x 460 (+45)	
Net Weight		in.	52-11/16 x 41-11/32 x 13 (+1-9/16)								65-7/16 x 41-11/32 x 187/64 (+1-9/64)	
	ka (lbs) <td colspan="4">123 (271)</td> <td colspan="4">125 (276)</td> <td>141 (311)</td> <td colspan="2">192 (423)</td>	123 (271)				125 (276)				141 (311)	192 (423)	

*1, *4 Nominal conditions

	Indoor	Outdoor	Piping Length	Level Difference
Cooling	27°C DB / 19°C WB	35°C	75m	0m
Heating	20°C DB	7°C DB / 6°C WB	75m	0m

*2 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, PFFY-P-VMA3, M, S and P series indoor unit.

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

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

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

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

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 x W x D	170 x 450 x 280
Weight			kg	7.4
Piping Connection (Flare)	Branch [Indoor Side]	Liquid	mm	ø6.35 x 5
		Gas	mm	ø9.52 x 4, ø12.7 x 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.)

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-3 2F33VF4	MXZ-3 2F42VF4	MXZ-3 2F53VF(H)4	MXZ-3 2F53VFH2	MXZ-3 3F54VF4	MXZ-3 3F68VF4	MXZ-3 4F72VF4	MXZ-3 4F80VF4	MXZ-3 4F83VF2	MXZ-3 4F83VFH2	MXZ-3 5F102VF2	MXZ-3 6F120VF2	MXZ-3 2HA40VF2	MXZ-3 2HA50VF2	MXZ-3 3HA50VF2
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-AY25VG(K)																	
		MSZ-AY35VG(K)																	
		MSZ-AY42VG(K)																	
		MSZ-AY50VG(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)																		
Floor-Standing	MFZ-KT25VG																		
	MFZ-KT35VG																		
	MFZ-KT50VG																		
	1-way Cassette	MLZ-KP25VF																	
		MLZ-KP35VF																	
		MLZ-KP50VF																	
		MLZ-KY20VG																	
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																	
	Concealed Floor-Standing	SFZ-M25VA																	
		SFZ-M35VA																	
		SFZ-M50VA																	
		SFZ-M60VA																	
		SFZ-M71VA																	
P series	Ceiling-Suspended	PCA-M50KA2																	
		PCA-M60KA2																	
		PCA-M71KA2																	
	Ceiling-Concealed	PEAD-M35JA2																	
		PEAD-M35JAL2																	
		PEAD-M50JA2																	
		PEAD-M50JAL2																	
		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.

*4 P series cannot be connected with MXZ-4F83VFH2 when ampere limit adjustment function is operated.

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		●	●	●	●	●	●	●	●	●	●		
		MLZ-KP50VF					●	●	●	●	●	●	●		
S series	2x2 Cassette	SLZ-M15FA													
		SLZ-M25FA	●	●	●	●	●	●	●	●	●	●	●		
		SLZ-M35FA		●	●	●	●	●	●	●	●	●	●		
		SLZ-M50FA					●	●	●	●	●	●	●		
	Ceiling- Concealed	SEZ-M25DA ^{*2}	●	●	●	●	●	●	●	●	●	●	●		
		SEZ-M25DAL ^{*2}	●	●	●	●	●	●	●	●	●	●	●		
		SEZ-M35DA		●	●	●	●	●	●	●	●	●	●		
		SEZ-M35DAL		●	●	●	●	●	●	●	●	●	●		
		SEZ-M50DA					●	●	●	●	●	●	●		
		SEZ-M50DAL					●	●	●	●	●	●	●		
		SEZ-M60DA					●	●	●	●	●	●	●		
		SEZ-M60DAL					●	●	●	●	●	●	●		
		SEZ-M71DA							●	●	●	●	●		
		SEZ-M71DAL							●	●	●	●	●		
P series	4-way Cassette	PLA-M50EA					●	●	●	●	● ^{*6}	●	●		
		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}		
								● ^{*1}	● ^{*1*6}	● ^{*1}	● ^{*1}				
								● ^{*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 for PUMY-SP112/125/140

Series	Type	Model Name	Capacity										
			15	18	20	22	25	35	42	50	60	71	100
M series	Wall-Mounted	MSZ-LN•VG2					●	●		●			
		MSZ-RW•VG-E					●	●		●			
		MSZ-AP•VG(K)	●		●		●	●	●	●			
		MSZ-FH•VE2					●	●		●			
		MSZ-EF•VG(K)		●		●	●	●	●	●			
		MSZ-SF•VA	●		●								
		MSZ-AP•VF-E	●		●								
		MSZ-SF•VE3					●	●	●	●			
		MSZ-GF•VE2									●	●	
	Floor-Standing	MFZ-KT•VG					●	●		●			
		MFZ-KJ•VE-E					●	●		●			
	1-way Cassette	MLZ-KP•VF					●	●		●			
		MLZ-KA•VA-E					●	●		●			
S series	Ceiling-Concealed	SEZ-M•DAL(2)					●*1	●*1		●*1	●*1	●*1	
		SEZ-KD•VA-E					●*1	●*1		●*1	●*1	●*1	
	2×2 Cassette	SLZ-M•FA(2)	●*1				●*1	●*1		●*1			
		SLZ-KF•VA-E					●*1	●*1		●*1			
P series	Ceiling-Suspended	PCA-M•KA(2)						●*1		●*1	●*1	●*1	●*1
		PCA-RP•KAQ-E						●*1		●*1	●*1	●*1	●*1
	4-way Cassette	PLA-M•EA(2)						●*1		●*1	●*1	●*1	●*1
		PLA-RP•EA-E						●*1		●*1	●*1	●*1	●*1
	Ceiling-Concealed	PEAD-M•JA(L)(2)								●*1	●*1	●*1	●*1
		PEAD-RP•JAQ(L)-E								●*1	●*1	●*1	●*1

*1 Some functions that can be used by connecting to the P series outdoor unit cannot be used with the PUMY series.

LEV Kit Connection Compatibility Table for PUMY-SP112/125/140

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

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-M•VEM6-E			●	●	●	●	●	●	●		●	●			
		PLFY-P•VBM-E					●	●	●	●		●	●	●			
		PLFY-P•VEM-E					●	●	●	●		●	●	●			
		PLFY-P•VCM-E		●			●	●	●	●		●	●	●			
		PLFY-P•VFM-E		●	●	●	●	●	●								
		CEILING-CONCEALED	PEFY-P•VMR-E-L/R			●	●	●									
		PEFY-P•VMS1(L)-E		●		●	●	●	●	●							
	PLFY-P•VMA(L)-E			●	●	●	●	●	●	●	●	●	●	●	●		
	PEFY-M•VMA(L)-A(1)			●	●	●		●	●	●	●	●	●	●	●		
	PEFY-P•VMH(S)-E							●	●	●	●	●	●	●	●		
	PEFY-P•VMH-E-F										●				●		
	PEFY-P•VMHS-E-F												●				
	CEILING-SUSPENDED	PCFY-P•VKM-E	●					●		●			●	●			
	WALL-MOUNTED	PKFY-P•VLM-E	●	●	●	●	●	●	●								
		PKFY-P•VBM-E		●	●	●											
		PKFY-P•VHM-E					●	●	●								
		PKFY-P•VKM-E								●			●				
	Built in	PDFY-P•VM-E			●	●	●	●	●	●	●	●	●	●			
	Floor-standing	PFFY-P•VKM-E2			●	●	●	●		●							
		PFFY-P•VLEM-E			●	●	●	●	●	●							
		PFFY-P•VLRM-E			●	●	●	●	●	●	●						
		PFFY-P•VLRMM-E			●	●	●	●	●	●	●						
		PFFY-P•VCM-E			●	●	●	●	●	●	●						
Lossnay *1			GUF-50/100RD(H)4														

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

■ PUMY-P Series

Branch Box Connection Compatibility Table for PUMY-P112/125/140/200

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)	●		●		●	●	●	●			
		MSZ-AY•VG(K)					●	●	●	●			
		MSZ-FH•VE2					●	●		●			
		MSZ-EF•VE		●		●	●	●	●	●			
		MSZ-EF•VG(K)		●		●	●	●	●	●			
		MSZ-SF•VA	●		●								
		MSZ-AP•VF	●		●								
		MSZ-SF•VE3					●	●	●	●			
		MSZ-GF•VE2									●	●	
	Floor-Standing	MFZ-KT•VG					●	●		●			
		MFZ-KJ•VE-E					●	●		●			
	1-way Cassette	MLZ-KP•VF					●	●		●			
		MLZ-KA•VA-E					●	●		●			
S series	Ceiling-Concealed	SEZ-M•DA(L)					●	●		●	●	●	
		SEZ-KD•VA-E					●	●		●	●	●	
		SEZ-M•DA(L)2-E					●	●		●	●	●	
	2x2 Cassette	SLZ-M•FA(2)	●				●	●		●			
		SLZ-KF•VA-E					●	●		●			
P series	Ceiling-Suspended	PCA-M•KA(2)						●		●	●	●	●
		PCA-RP•KAQ-E						●		●	●	●	●
	4-way Cassette	PLA-M•EA(2)						●		●	●	●	●
		PLA-RP•EA-E						●		●	●	●	●
	Ceiling-Concealed	PEAD-M•JA(L)								●	●	●	●
		PEAD-RP•JA(L)Q-E								●	●	●	●
		PEAD-M•DA(L)2								●	●	●	●

LEV Kit Connection Compatibility Table for PUMY-P112/125/140/200

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

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
CITY MULTI series	1-way cassette	PMFY-P•VBM-E			●	●	●	●							
		PLFY-P•VLMD-E			●	●	●	●	●	●		●	●	●	
		PLFY-M•VEM-E			●	●	●	●	●	●		●	●	●	
	4-way cassette	PLFY-M•VEM6-E			●	●	●	●	●	●	●	●	●	●	
		PLFY-P•VFM-E		●	●	●	●	●	●	●		●	●	●	
		PEFY-P•VMR-E-L/R			●	●	●								
	Ceiling-concealed	PEFY-P•VMS1(L)-E		●	●	●	●	●	●	●					
		PEFY-M•VMA(L)-A(1)			●	●	●	●	●	●	●	●	●	●	
		PEFY-P•VMHS-E						●	●	●	●	●	●	●	
		PEFY-P•VMHS-E-F											●	●	
		PCFY-P•VKM-E						●	●	●			●	●	
	Ceiling-suspended	PKFY-P•VLM-E	●	●	●	●	●	●	●	●					
		PKFY-P•VKM-E							●	●			●	●	
	Wall-mounted	PFFY-P•VKM-E2			●	●	●	●							
		PFFY-P•VLEM-E			●	●	●	●	●	●					
		PFFY-P•VLRM-E			●	●	●	●	●	●					
		PFFY-P•VLRMM-E			●	●	●	●	●	●					
		PFFY-P•VCM-E			●	●	●	●	●	●					
	ATW	PWFY-P•VM-E1 *1											●		
	Lossnay *2		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
CITY MULTI series	1-way cassette	PMFY-P•VBM-E			●	●	●	●							
		PLFY-P•VLMD-E			●	●	●	●	●	●		●	●	●	
		PLFY-M•VEM-E			●	●	●	●	●	●		●	●	●	
	4-way cassette	PLFY-M•VEM6-E			●	●	●	●	●	●	●	●	●	●	
		PLFY-P•VFM-E		●	●	●	●	●	●	●		●	●	●	
		PEFY-P•VMR-E-L/R			●	●	●								
	Ceiling-concealed	PEFY-M•VMA(L)-A(1)			●	●	●	●	●	●	●	●	●	●	
		PEFY-P•VMHS-E						●	●	●	●	●	●	●	
		PEFY-P•VMHS-E-F											●	●	
		PCFY-P•VKM-E						●	●	●			●	●	
		PKFY-P•VLM-E	●	●	●	●	●	●	●	●					
	Ceiling-suspended	PKFY-P•VKM-E								●			●	●	
		PFFY-P•VKM-E2			●	●	●	●							
	Wall-mounted	PFFY-P•VLEM-E			●	●	●	●	●	●					
		PFFY-P•VLRM-E			●	●	●	●	●	●					
		PFFY-P•VLRMM-E			●	●	●	●	●	●					
		PFFY-P•VCM-E			●	●	●	●	●	●					
		PFFY-P•VCM-E			●	●	●	●	●	●					
	Lossnay *2		GUF-50/100RD(H)4												

*1 Note that connection is not allowed inside EU countries and UK. PWFY can not connect to PUMY-P200YKM3.

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

■ PUMY-P Series

Branch Box Connection Compatibility Table for PUMY-P250/300

Series	Type	Model Name	Capacity										
			15	18	20	22	25	35	42	50	60	71	100
M series	Wall-Mounted	MSZ-LN•VG2					●	●		●			
		MSZ-RW•VG-E					●	●		●			
		MSZ-AP•VG(K)	●		●		●	●	●				
		MSZ-FH•VE2					●	●		●			
	Floor-Standing	MSZ-EF•VG(K)		●		●	●	●	●				
S series	Ceiling Concealed	SEZ-M•DA(L)2					●	●		●	●	●	
	2x2 Cassette	SLZ-M•FA2	●				●	●		●			
P series	Ceiling Suspended	PCA-M•KA2						●		●	●	●	●
	4-way Cassette	PCA-M•EA2						●		●	●	●	●
	Ceiling Concealed	PEAD-M•JA(2)								●	●	●	●

LEV Kit Connection Compatibility Table for PUMY-P250/300

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					●	●		●

CITY MULTI Indoor Unit Compatibility Table for PUMY-P250/300

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-M•VEM6-E			●	●	●	●	●	●	●	●	●			
		PLFY-P•VFM-E		●	●	●	●	●	●							
	Ceiling-concealed	PEFY-P•VMR-E-L/R			●	●	●									
		PEFY-P•VMS1(L)-E		●	●	●	●	●	●	●						
		PEFY-M•VMA(L)-A			●	●	●	●	●	●	●	●	●	●		
		PEFY-P•VMA(L)-A1			●	●	●	●	●	●	●	●	●	●		
		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 *1		GUF-50/100RD(H)4														

*1 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-RW25/35VGHZ



MUFZ-KW25/35VGHZ



MUZ-RW50VGHZ
MUZ-LN50VGHZ2



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-2F53VFHZ2



MXZ-4F83VFHZ2



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



Powerful Core for powerful heating

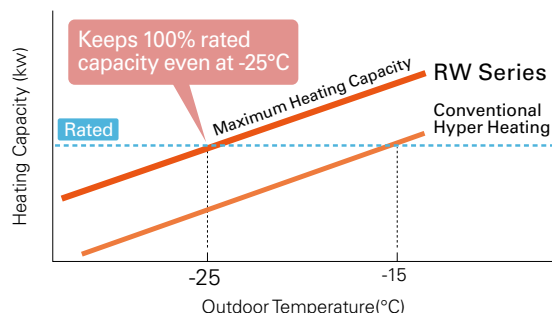
Heating Performance

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).

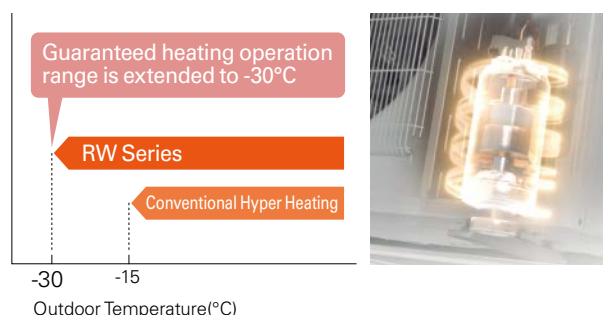
High Energy Efficiency

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

Improved Heating Capacity

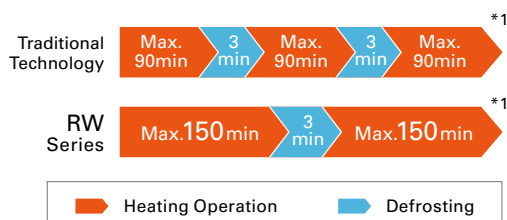


Wider Heating Operation Range



Longer Continuous Heating Operation

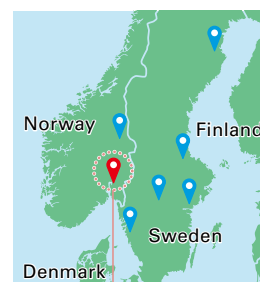
RW series with a high frost-detecting technology, made it possible to provide maximum continuous heating operation as long as 150 minutes with less frequent defrosting operations, maintaining a comfortable indoor environment in a long term.



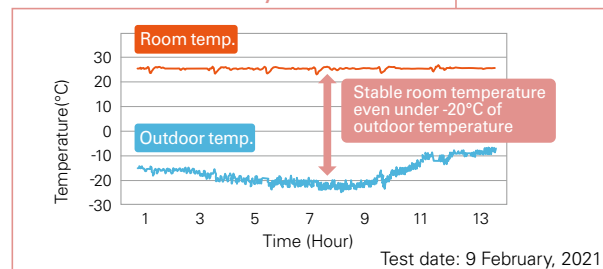
*1 The time for heating and defrosting operation depends on the environmental conditions.

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.



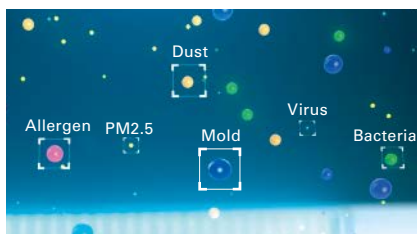
Circulator Mode

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}

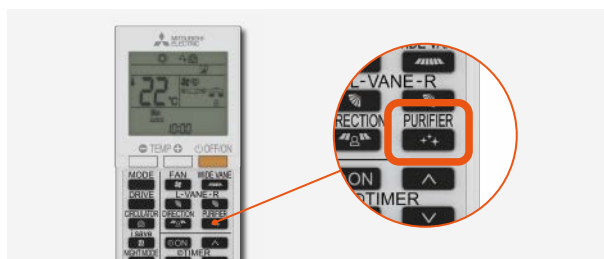
^{*1} Tested Organization: vrc. Center, SMC Test Report No: 28-002 Test Method: JEM1467 Test result: Neutralised 99% of Influenza A virus in 72 minutes in a 25m³ test space.

^{*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

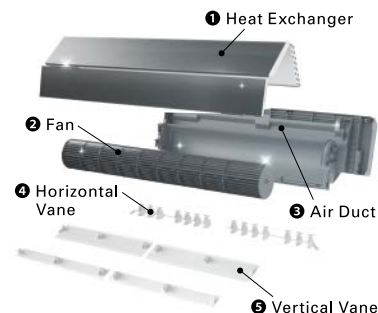
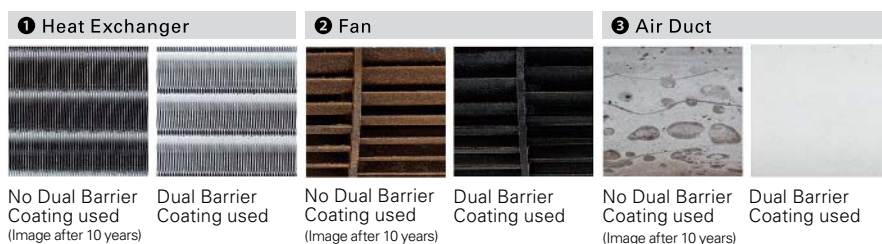
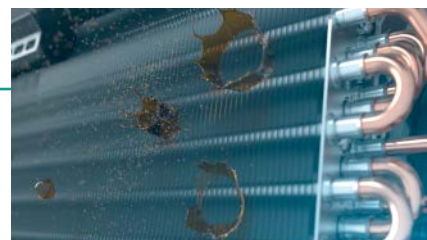
The catalyst in Deodorising Filter denatures the odorous components and destroys them from the source of the odour, quickly delivering fresh air to your room.



Dual Barrier Coating

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

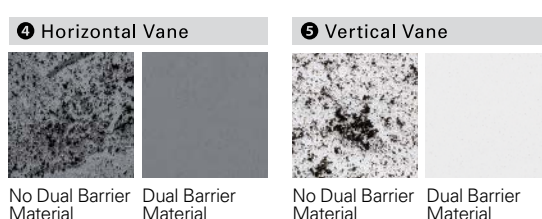
Mitsubishi Electric's Dual Barrier Coating prevents dust and greasy dirt from accumulating on the inner surface of the indoor unit; keeping your air conditioner clean. Two barrier coating prevents hydrophilic dirt penetration, and "hydrophilic particles" prevent hydrophobic dirt from getting into the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



*Comparison of stains after 10 years of use (based on internal research)

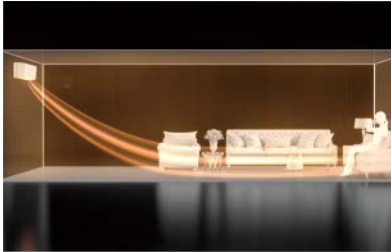
^{*1} ^{*2} Verified by SIAA test method (JIS Z 2911) with No. JP0501014A00020 on SIAA antifungal agent positive list. Antifungal effect depends on the working environment. Fungicides comply with the SIAA safety criteria. What is SIAA? https://www.kohkin.net/en_index.html

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.

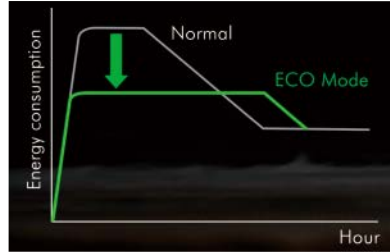
Wide Room Mode

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.



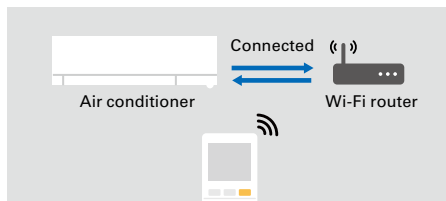
Built-in Wi-Fi & App Control

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.

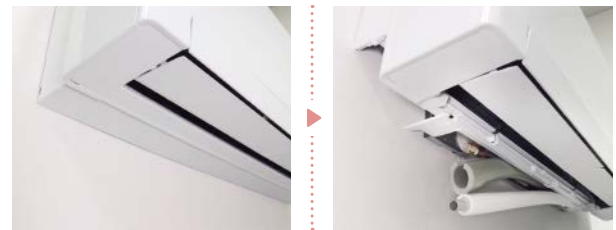
Spacer

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

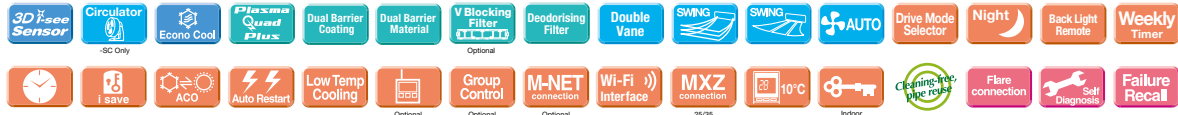
Outdoor Unit



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 R410A
Single / MXZ, PUMY 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.



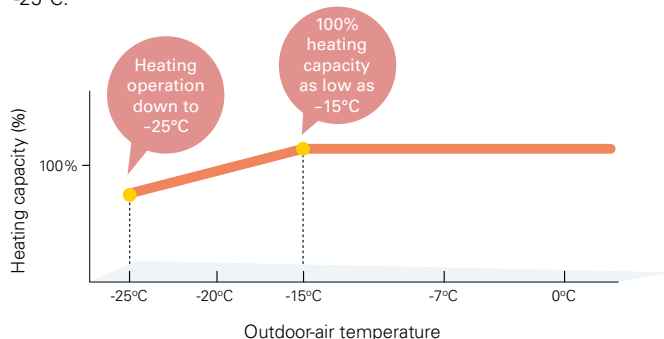
MSZ-LN25/35/50VG2(W)(V)(R)(B)



Powerful Core for powerful heating

Unparalleled Heating Performance

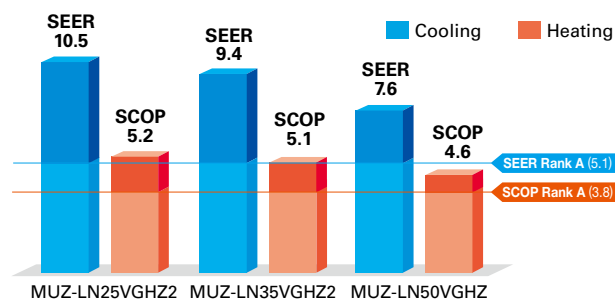
LN Series outdoor units are equipped with a high-output compressor that provides enhanced heating performance under low outdoor temperatures. The heating operation range is extended down to -25°C.



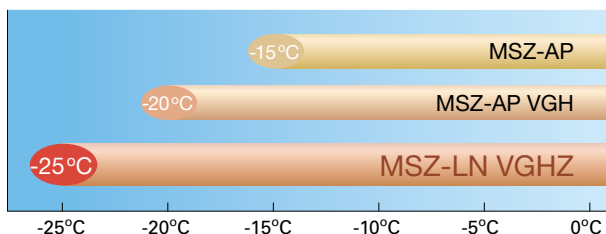
High Energy Efficiency – Energy Rank of A+ or higher for All Models

DC Inverter

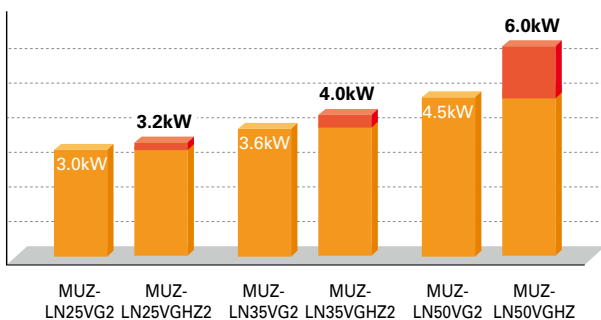
With indoor units that combine functionality, design and capacity and outdoor units equipped with a high-efficiency compressor, the MUZ-LN VGHZ simultaneously achieves high heating capacity and energy-saving performance.



Operating Range



Declared Capacity (at reference design temperature)



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

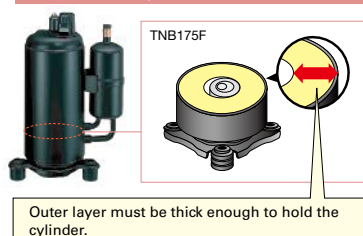


With Freeze-prevention heater

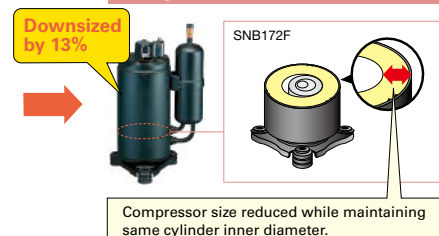
Compact, Powerful Compressor

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-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

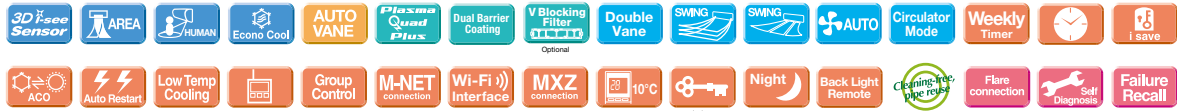
Outdoor Unit



MUZ-LN25/35VGHZ2



MUZ-LN50VGHZ2



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-LN50VGHZ2
Refrigerant	R32 (*1)			
Power Supply	Outdoor Power supply			
	230/Single/50			
Cooling	Design Load	kW	2.5	3.5
	Annual Electricity Consumption (*2)	kWh/a	83	130
	SEER (*4)		10.5	9.4
	Energy Efficiency Class		A+++	A+++
	Capacity	Rated	2.5	3.5
		Min - Max	0.8 - 3.5	0.8 - 4.0
	Total Input	Rated	0.485	0.820
				1.380
	Design Load	kW	3.2 (-10°C)	4.0 (-10°C)
	Declared Capacity	kW	3.2 (-10°C)	4.0 (-10°C)
Heating (Average Season) (*5)		kW	3.2 (-10°C)	4.0 (-10°C)
		kW	3.2 (-10°C)	4.0 (-10°C)
		kW	2.3 (-25°C)	3.1 (-25°C)
		kW	0.0 (-10°C)	0.0 (-10°C)
	Back Up Heating Capacity	kW	0.0 (-10°C)	0.0 (-10°C)
	Annual Electricity Consumption (*2)	kWh/a	861	1098
	SCOP (*4)		5.2	5.1
	Energy Efficiency Class		A+++	A+++
	Capacity	Rated	3.2	4.0
		Min - Max	0.8 - 6.3	0.9 - 6.6
Operating Current (max)	Input	Rated	9.9	10.5
				15.2
	Operating Current (max)	Rated	0.027	0.027
				0.034
	Dimensions	H x W x D	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	4.3 - 5.8 - 7.1 - 8.8 - 11.9	4.3 - 5.8 - 7.1 - 8.8 - 12.8
		Heating	4.0 - 5.7 - 7.1 - 8.5 - 14.4	4.3 - 5.7 - 7.1 - 8.5 - 13.7
Sound Level (SPL)	Sound Level (SPL)	Cooling	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43
		Heating	19 - 24 - 29 - 36 - 45	19 - 24 - 29 - 36 - 45
	Sound Level (PWL)	Cooling	58	58
		Heating	58	58
	Sound Level (PWL)	Cooling	60	61
		Heating	60	61
	Operating Current (max)	A	9.6	10.2
				14.8
	Breaker Size	A	10	12
				16
Ext. Piping	Diameter	Liquid / Gas	6.35/9.52	6.35/9.52
	Max. Length	Out-In	20	30
	Max. Height	Out-In	12	15
	Guaranteed Operating Range [Outdoor]	Cooling	-10 ~ +46	-10 ~ +46
		Heating	-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 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.

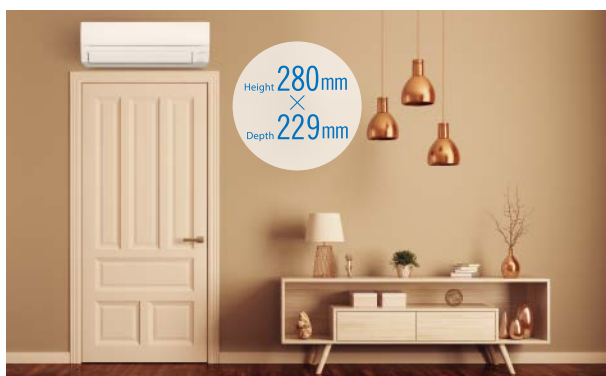


MSZ-FT25/35/50VG(K)



Compact Design

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

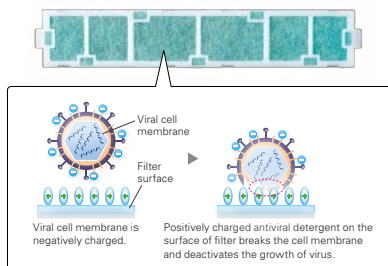


V Blocking Filter (Optional)

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.



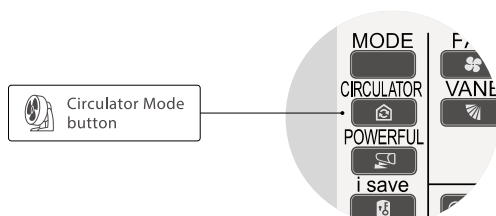
Remote Controller with Backlight

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.



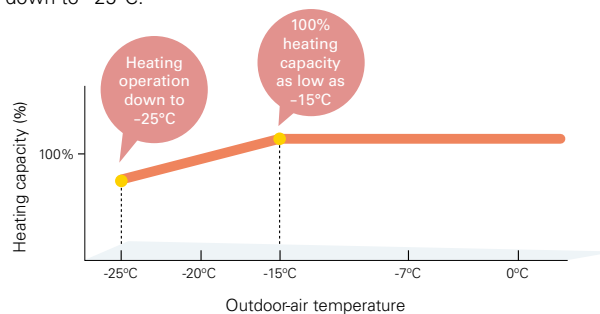
Built-in Wi-Fi

(MSZ-FT25/35/50VGK)

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

Hyper Heating

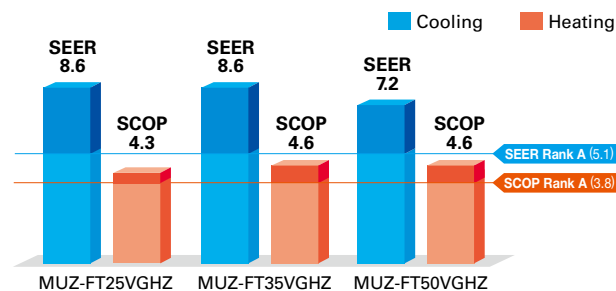
Mitsubishi Electric's powerful compressor and highly cold-resistant parts enable the heat pump to provide 100% or more heating capacity even at -15°C , and also the heating operation is guaranteed down to -25°C .



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)

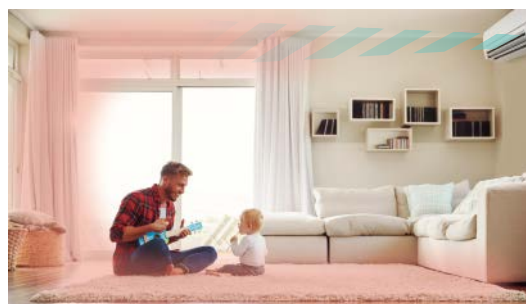


Image is for illustration purposes.

MSZ-FT VGHZ 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
	Energy Efficiency Class		A+++	A+++	A++
	Capacity	Rated	2.5	3.5	5.0
		Min - Max	0.8 - 3.5	0.8 - 4.0	0.8 - 5.2
	Total Input	Rated	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	3.2 (-10°C)	4.0 (-10°C)	5.0 (-10°C)
		at bivalent temperature	3.2 (-10°C)	4.0 (-10°C)	5.0 (-10°C)
		at operation limit temperature	3.0 (-25°C)	3.4 (-25°C)	3.6 (-25°C)
		at operation limit temperature	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
	Energy Efficiency Class		A++	A++	A+
	Capacity	Rated	3.2	4.0	5.0
		Min - Max	0.9 - 6.2	0.9 - 6.6	0.9 - 7.8
	Total Input	Rated	0.760	1.020	1.300
Operating Current (max)			A	11.6	13.9
Indoor Unit	Input	Rated	kW	0.039	0.047
	Operating Current (max)		A	0.4	
	Dimensions	H x W x 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
		Heating	m³/min	3.9 - 6.3 - 9.0 - 12.0 - 13.2	3.9 - 6.9 - 10.2 - 13.5 - 14.7
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi) (*3)	Cooling	dB(A)	19 - 27 - 36 - 41 - 46	19 - 27 - 36 - 42 - 47
		Heating	dB(A)	19 - 31 - 39 - 46 - 49	19 - 33 - 42 - 49 - 52
Outdoor Unit	Sound Level (PWL)		dB(A)	60	
	Dimensions	H x W x D	mm	550 - 800 - 285	714 - 800 - 285
	Weight		kg	34	40
	Air Volume	Cooling	m³/min	30.4	40.2
		Heating	m³/min	30.4	40.2
	Sound Level (SPL)	Cooling	dB(A)	46	49
		Heating	dB(A)	49	52
	Sound Level (PWL)		dB(A)	60	61
Ext. Piping	Operating Current (max)		A	9.6	11.2
	Breaker Size		A	12	16
	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52
	Max. Length	Out-In	m	20	30
Guaranteed Operating Range (Outdoor)	Max. Height	Out-In	m	12	15
			°C	-10 ~ +46	-10 ~ +46
			°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 SERIES

R410A
Single / Multi

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.

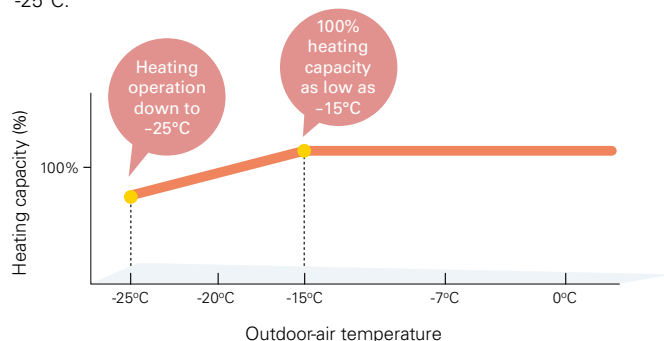


MSZ-FH25/35/50VE2

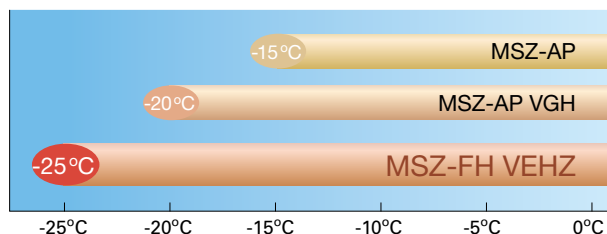


Unparalleled Heating Performance

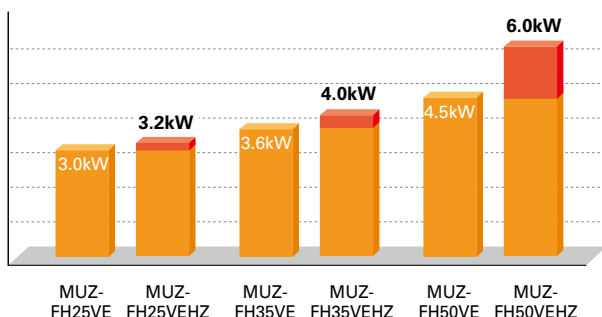
FH Series outdoor units are equipped with a high-output compressor that provides enhanced heating performance under low outdoor temperatures. The heating operation range is extended down to -25°C.



Operating Range



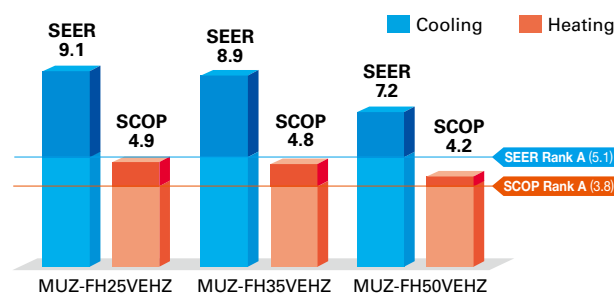
Declared Capacity (at reference design temperature)



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

DC Inverter

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.



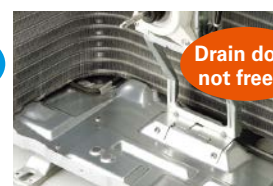
Freeze-prevention Heater Equipped as Standard

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

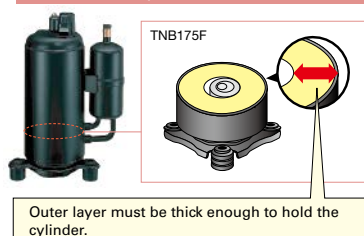


With Freeze-prevention heater

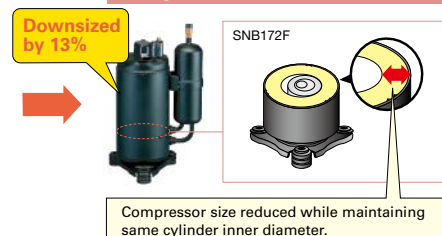
Compact, Powerful Compressor

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			
	Capacity		Energy Efficiency Class		A+++		A+++		A++		
			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			
	Capacity		Energy Efficiency Class		A++		A++		A+		
			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		14.0		
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) (*3)	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) (*3)	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		880 - 840 - 330		
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)		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 / 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".

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

MFZ-KW SERIES



Indoor Unit

R32
Single



MFZ-KW25/35/50/60VG



GOOD DESIGN
AWARD 2014

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
	Energy Efficiency Class		A+++	A++	A++	A++
	Capacity	Rated	kW	2.5	3.5	5.0
		Min - Max	kW	0.7 - 3.6	0.7 - 4.3	1.0 - 5.8
	Total Input	Rated	kW	0.57	0.90	1.36
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)	4.5 (-10°C)	4.8 (-10°C)
		at bivalent temperature	kW	3.5 (-10°C)	3.6 (-10°C)	4.8 (-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 (-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
	Energy Efficiency Class		A+	A+	A+	A+
	Capacity	Rated	kW	3.4	4.3	6.0
		Min - Max	kW	0.2 - 5.1	0.2 - 6.0	1.2 - 9.4
Indoor Unit	Total Input	Rated	kW	0.83	1.21	1.60
	Operating Current (max)	A	9.9	10.3	15.3	15.4
	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 x W x 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	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	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	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
Outdoor Unit	Sound Level (PWL)	dB(A)	49	50	56	65
	Dimensions	H x W x D	mm	550 - 800 - 285		
	Weight	kg	35	35	54	54
	Air Volume	Cooling	m³/min	32.7	43.8	48.8
		Heating	m³/min	27.3	46.3	51.3
	Sound Level (SPL)	Cooling	dB(A)	47	50	52
		Heating	dB(A)	46	54	56
	Sound Level (PWL)	Cooling	dB(A)	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	6.35 / 12.7
	Max. Length	Out-In	m	20	30	30
	Max. Height	Out-In	m	12	15	15
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 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".

ZUBADAN SERIES

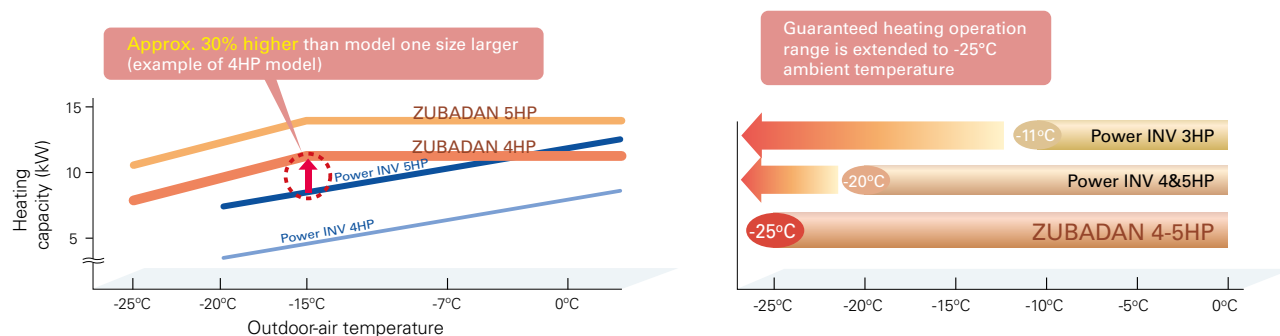
The ZUBADAN Series incorporates an original Flash Injection technology that improves the already high heating capacity of the system. This new member of the series line-up ensures comfortable heat pump-driven heating performance in cold regions.



* 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.

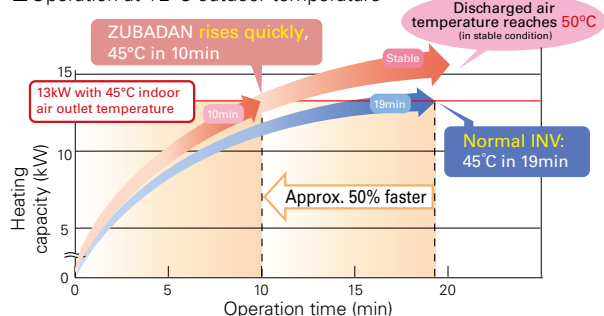


Enhanced Comfort

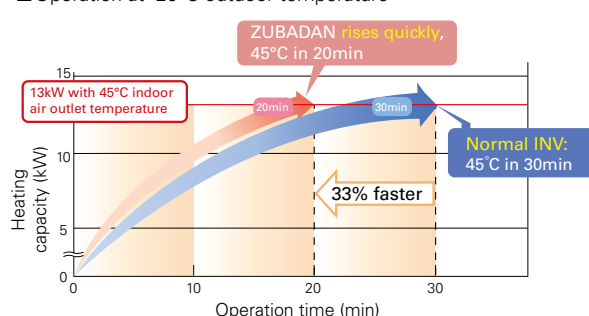
The Flash Injection circuit improves start-up and recover from the defrosting operation. A newly introduced defrost operation control also improves defrost frequency. These features enable the temperature to reach the set temperature more quickly, and contribute to maintaining it at the desired setting.

Quick Start-up

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



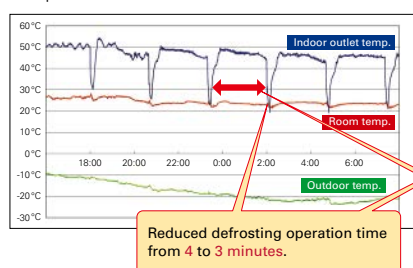
■ Operation at -20°C outdoor temperature



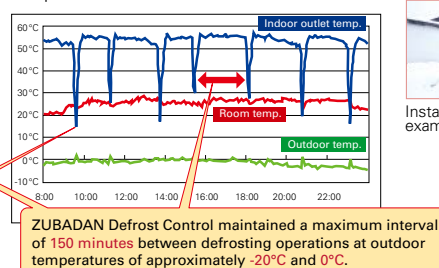
ZUBADAN Defrost Control and Faster Recovery from Defrost Operation

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

■ Operation data for 25 Jan. 2005



■ Operation data for 2 Dec. 2004



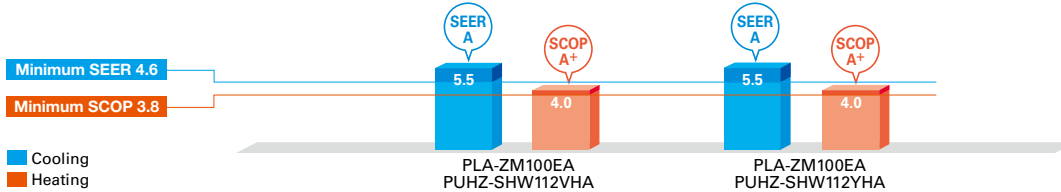
Installation example



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



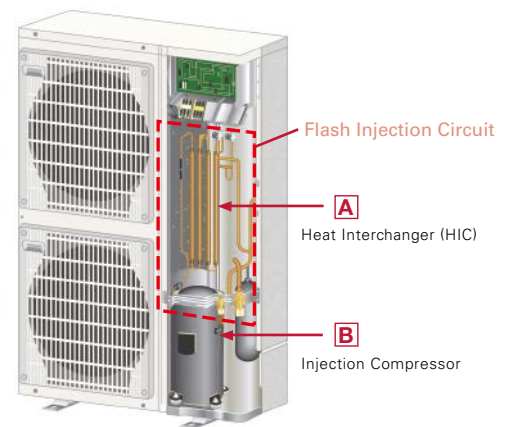
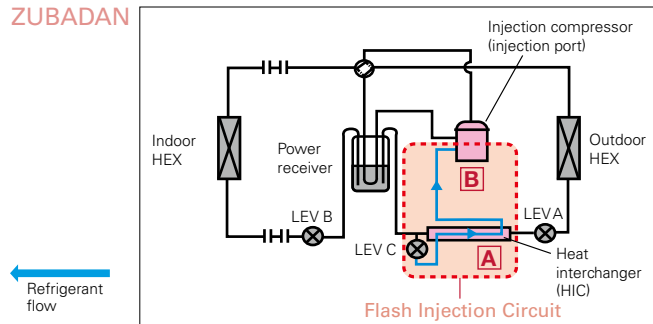
Powerful heating yet annually high energy efficiency in both cooling and heating, achieving rank A and A⁺.



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

Flash Injection Circuit

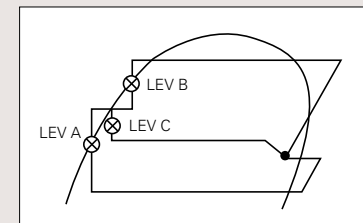
ZUBADAN



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.

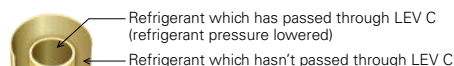
In traditional units, when the outdoor temperature is low, the volume of refrigerant circulating in the compressor decreases due to the drop in refrigerant pressure and the protection from overheating caused by high compression, thereby reducing heating capacity. The Flash Injection Circuit injects refrigerant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

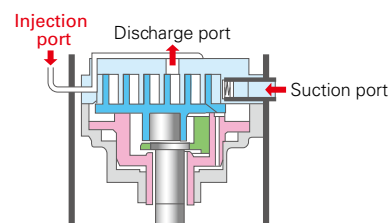
HIC cross-sectional view



Purpose: Transform liquid refrigerant into liquid-gas state
Effect: Injection circuit increases energy efficiency

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	12.5
		Min - Max	kW	4.9 - 11.4	5.5 - 14.0
	Total Input	Rated	kW	2.857	5.000
	EER			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	14.0
		Min - Max	kW	4.5 - 14.0	5.0 - 16.0
	Total Input	Rated	kW	2.667	4.000
	COP			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
Operating Current (max)			A	35.5	13.5
				13.5	13.5
Indoor Unit	Input [Cooling/Heating]	Rated	kW	0.07 / 0.07	0.08 / 0.08
	Operating Current (max)		A	0.47	0.52
	Dimensions <Panel>	H x W x D	mm	298-840-840 <40-950-950>	
	Weight <Panel>		kg	26 <5>	26 <5>
	Air Volume [Lo-Mi2-Mi1-Hi]		m³/min	19 - 22 - 25 - 28	21 - 24 - 26 - 29
	Sound Level (SPL) [Lo-Mi2-Mi1-Hi]		dB(A)	31 - 34 - 37 - 40	33 - 36 - 39 - 41
	Sound Level (PWL)		dB(A)	61	62
				61	62
Outdoor Unit	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
Ext. Piping	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

*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.

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	—
	Annual Electricity Consumption*2		kWh/a	661	—
	SEER*4			5.3	—
	Energy Efficiency Class		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	—
	Declared Capacity	at reference design temperature	kW	11.2 (-10°C)	—
		at bivalent temperature	kW	11.2 (-7°C)	—
		at operation limit temperature	kW	9.3 (-25°C)	—
	Back Up Heating Capacity		kW	1.5	—
	Annual Electricity Consumption*2		kWh/a	4445	—
	SCOP*4			4.0	—
	Energy Efficiency Class		A+	—	
Operating Current (max)		A	35.5	13.7	
Indoor Unit	Input [Cooling/Heating]	Rated	kW	0.07 / 0.07	0.08 / 0.08
	Operating Current (max)		A	0.47	0.52
	Dimensions <Panel>	H × W × D	mm	298-840-840 <40-950-950>	
	Weight <Panel>		kg	26 <5>	26 <5>
	Air Volume [Lo-Mi2-Mi1-Hi]		m³/min	19 - 22 - 25 - 28	21 - 24 - 26 - 29
	Sound Level (SPL) [Lo-Mi2-Mi1-Hi]		dB(A)	31 - 34 - 37 - 40	33 - 36 - 39 - 41
	Sound Level (PWL)		dB(A)	61	62
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.

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	3.77	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)		m³/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)	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	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 x W x 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 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	
		Heating	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.

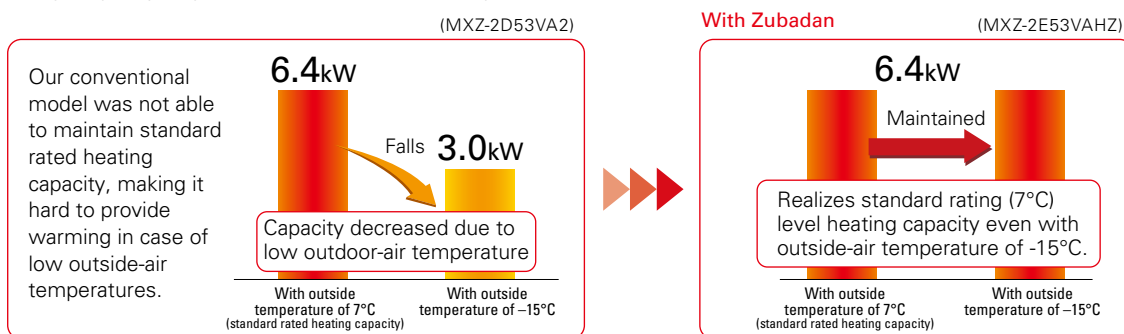
MXZ-VAHZ SERIES

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

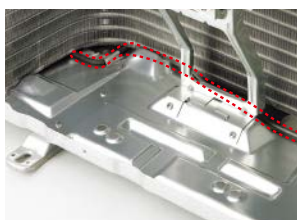
Prevents capacity loss and operation from stopping due to drain water freezing.

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



Without Freeze-prevention heater

With Hyper heating Does not freeze!



With Freeze-prevention heater

Continuous heating for long periods

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

Extremely cold outside



With Hyper heating

MXZ-VAHZ SERIES

Conventional model

Comfort using long-term heating mode
The unit may enter defrosting mode under certain environmental conditions, such as if outside-air humidity increases.

Defrosting operation

Heating operation *1

Defrosting operation

Heating operation *1

Defrosting operation

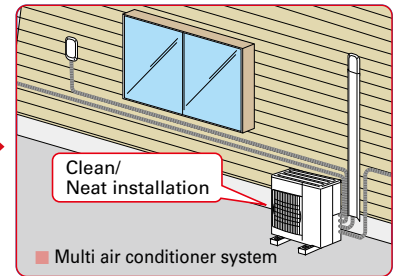
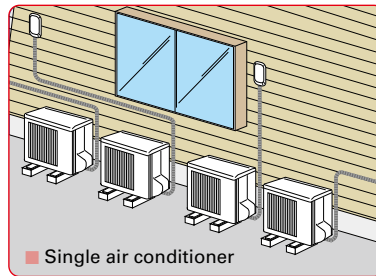
Heating operation *1

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

One outdoor unit supports multiple indoor units.

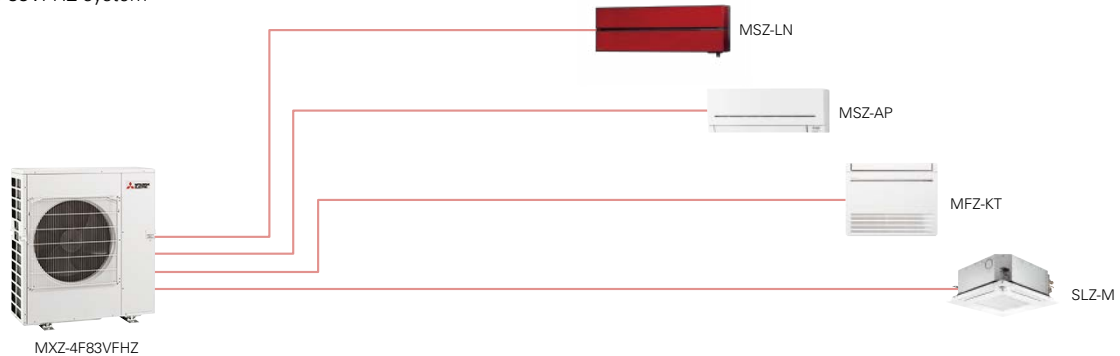
With MXZ-VAHZ, one outdoor unit can cool and heat up to six rooms. They can be installed neatly in sites with limited space such as condominium balconies.

*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



4-room use



INDOOR UNITS

Wall-mounted



Floor-standing



Cassette



Ceiling-suspended



Ceiling-concealed



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

MXZ-VAHZ SERIES



Outdoor Unit

R32



MXZ-2F53VFHZ2

R32



MXZ-4F83VFHZ2

R410A



MXZ-2E53VAHZ

R410A



MXZ-4E83VAHZ

Type				Inverter Heat Pump			
Indoor Unit				Please refer to *4 *5			
Outdoor Unit				MXZ-2F53VFHZ2	MXZ-4F83VFHZ2	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
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	470	63.0
		Heating	m³/min	41	77	470	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.

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-2F53VFHZ2 MSZ-LN18VG2 + MSZ-LN35VG2

MXZ-4F83VFHZ2 MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2

MXZ-2E53VAHZ MSZ-EF18VE + MSZ-EF35VE

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

*5 Indoor unit compatibility table is shown on page 139-140.

*6 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere.

This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of 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.

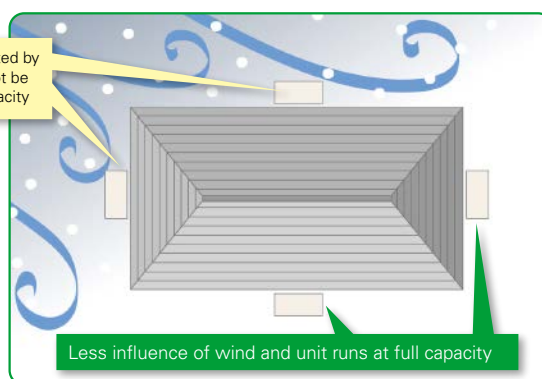
Be sure to check the information below and install the outdoor unit correctly.

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

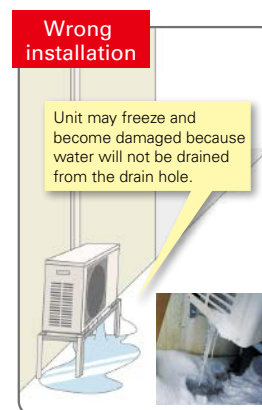
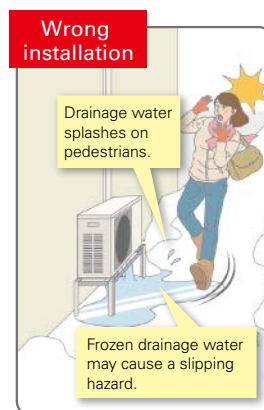
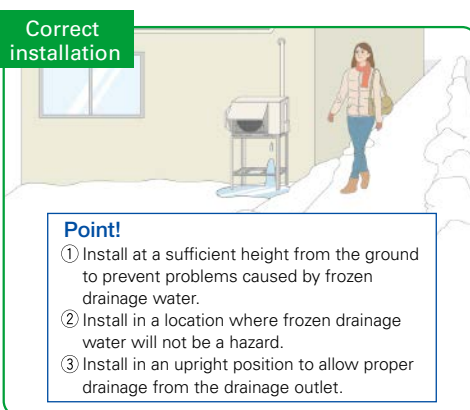


2

Measures for Drainage of Water

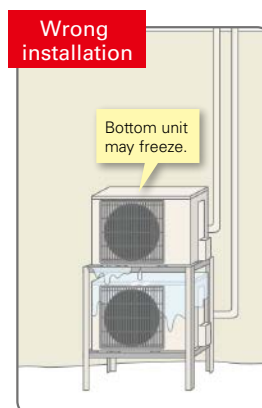
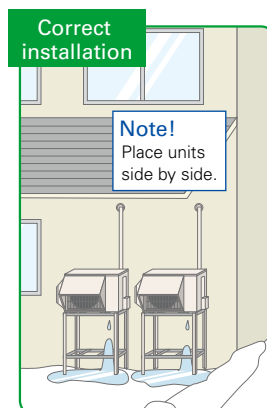
Case 1: Unit is installed close to passage (walkway)

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



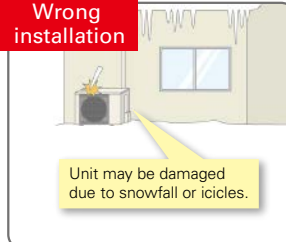
Point!

- 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

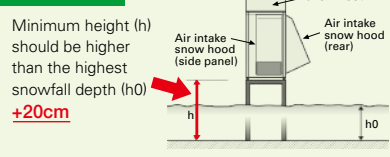


Wrong installation

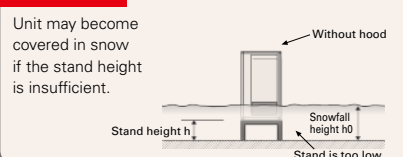


Use a stand to add sufficient height to protect the unit heat exchanger from snow and prevent icicles forming during defrost operation.

Correct installation



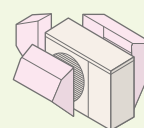
Wrong installation



Install snow protection hood as necessary

[RAC / PAC / MXZ]

Correct installation

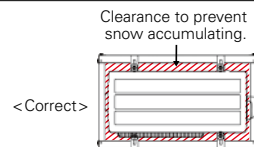


Point!

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)*
		 PUZ-HWM140
	 PUZ-WM50	 PUZ-WM60/85/112
Split type	Small capacity (Under 5kW)*	Medium capacity (6kW–14kW)*
		 PUD-SHWM60/80/100/120/140
		 PUD-SWM60/80/100/120
	 SUZ-SWM30/40VA SUZ-SHWM30/40VAH	 SUZ-SWM60VA  SUZ-SWM80/100VA(H) SUZ-SHWM60VAH

*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+	PUMY + ecodan	PXZ + ecodan	ecodan geodan	ecodan hydrodan
	R410A	R410A	R32	R32	R32
	 PUHZ-FRP71	 PUMY-P112/125/140	 PXZ-4F75VG  PXZ-5F85VG	 EHGT17D-YM9ED	 EHW17D-MHEDW

New Eco-design Directive

What is the ErP Directive?

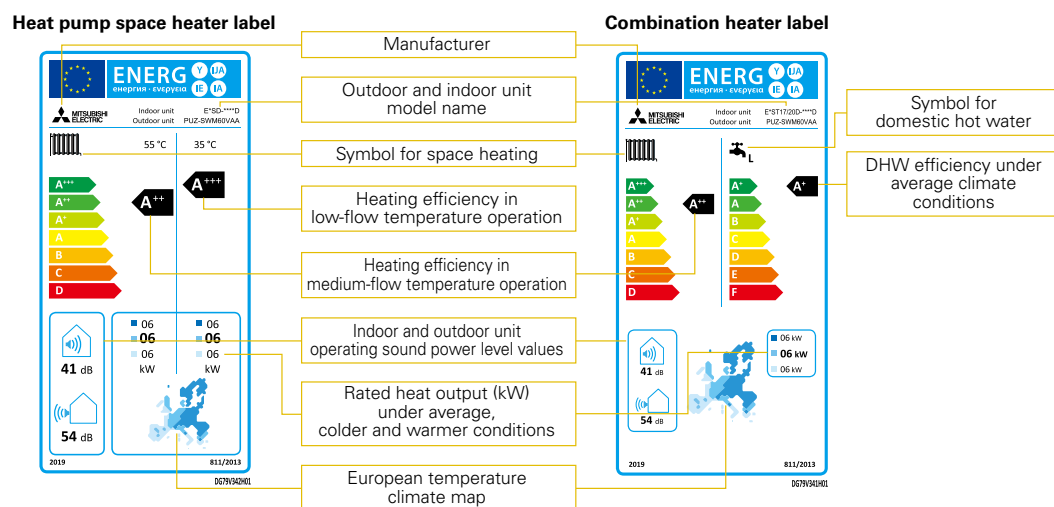
The Eco-design Directive for Energy-related Products (ErP Directive) established a framework to set mandatory standards for ErPs sold in the European Union (EU). The ErP Directive introduces new energy efficiency ratings across various product categories. It affects how products such as computers, vacuum cleaners, boilers and even windows are classified in terms of environmental performance. Labelling regulations that apply to our Air-to-Water (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 (DHW), 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.

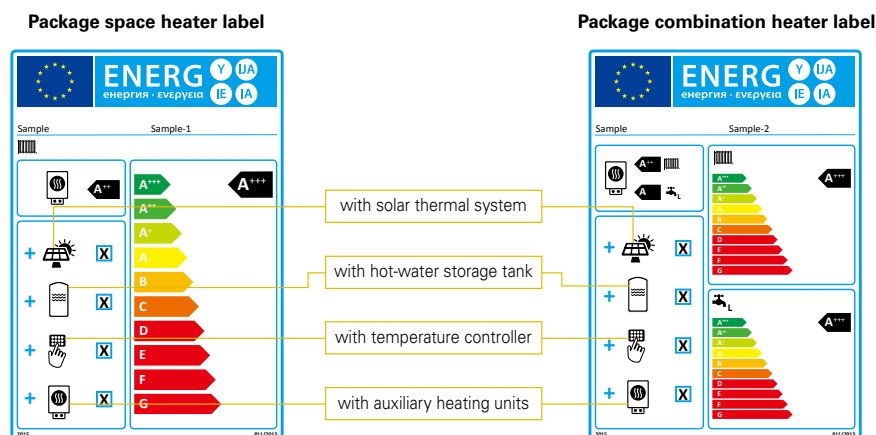
What is the package label?

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.

<https://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

Wider line-up

Standard/Hyper heating/Standard with base heater models are available.

SUZ Series		3kW	4kW	6kW	8kW	10kW
Previous	Standard SUZ-SWM	—	✓	✓	✓	—
	Standard SUZ-SWM	✓	✓	✓	✓	✓
New	Hyper Heating* with base heater SUZ-SHWM	✓	✓	✓	—	—
	Standard with base heater SUZ-SWM	—	—	—	✓	✓

*Hyper Heating model: Keep 100% heating capacity at -15°C.



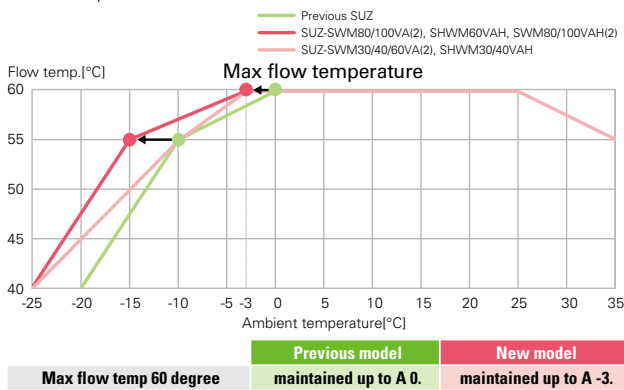
Standard
SUZ-SWM30/40/60VA(2)
Hyper Heating with base heater
SUZ-SHWM30/40VAH



Standard
SUZ-SWM80/100VA(2)
Hyper Heating with base heater
SUZ-SHWM60VAH
Standard with base heater
SUZ-SWM80/100VAH(2)

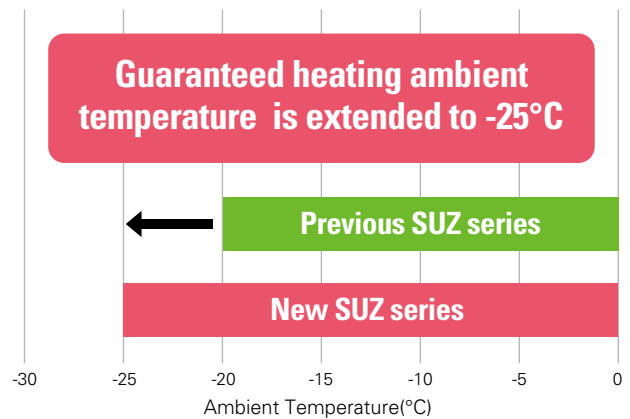
Performance Guaranteed Range Expansion for Max Outlet Water Temperature

New SUZ achieved to keep max outlet water temperature of 60°C in ambient -3°C. Especially Standard 80/100, Hyper Heating 60, and Standard with base heater 80/100 models can also keep max outlet water temperature of 55°C in ambient -15°C.



Performance Guaranteed Range Expansion

Performance guaranteed range is extended to -25°C.



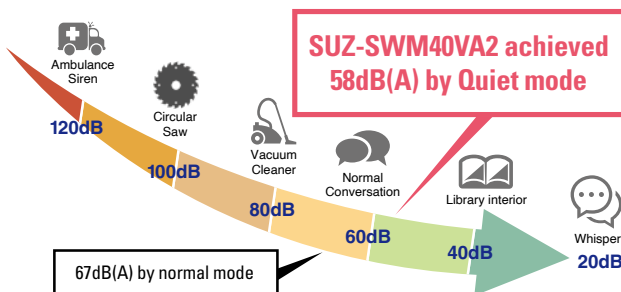
Quiet mode

Once Quiet mode is activated using the remote controller, SUZ's sound volume becomes lower than normal mode. There are 2 Quiet mode levels in SUZ.

*Outdoor condition is A-7W35.

*The cooling and heating capacity may drop if this function is activated.

*Sound power level values are based on EN12102.



Improved flexibility for installation

The minimum piping length is reduced to 2m, and the maximum piping length is extended to 46m for SUZ-SWM80/100VA(2), SHWM60VAH, SWM80/100VAH(2).

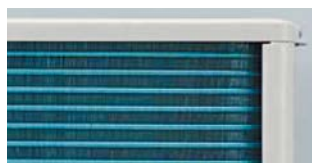
This enables for flexible installation in any wider properties.

	30	40	60	80	100
Standard [m]	2-26*	2-26*	2-26*	2-46*	2-46*
Hyper Heating with base heater [m]	2-26*	2-26*	2-46*	-	-
Standard with base heater [m]	-	-	-	2-46*	2-46*

* When piping length is longer than 26m or 46m, please make sure to consult separately.

Blue fin

A special coating is applied to the heat exchanger to improve corrosion toughness.



New PUZ Series

Great Line-up for Heating and Cooling

Our new flagship PUZ series offers optimized heating and cooling performance and covers both ranges, POWER INVERTER and ZUBADAN.

In addition to space heating and hot water supply, new PUZ series can easily combine with fan coils or underfloor cooling systems to provide with the best thermal comfort also in summer.

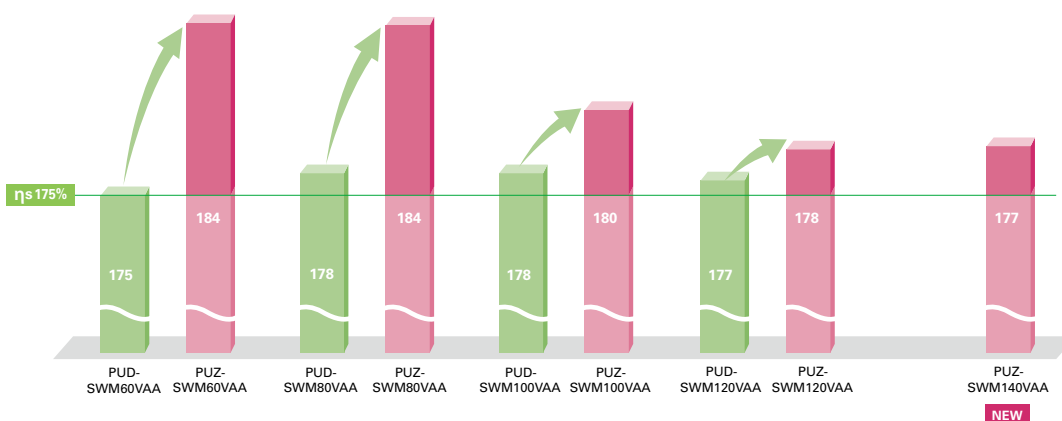


Refrigerant	Operation	Series	Power supply	60	80	100	120	140
R32	Reversible	PUZ	POWER INVERTER	1Φ230V	●	●	●	●
			POWER INVERTER	3Φ400V	-	●	●	●
			ZUBADAN	1Φ230V	●	●	●	●
			ZUBADAN	3Φ400V	-	●	●	●

Further Enhanced Energy Efficiency

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

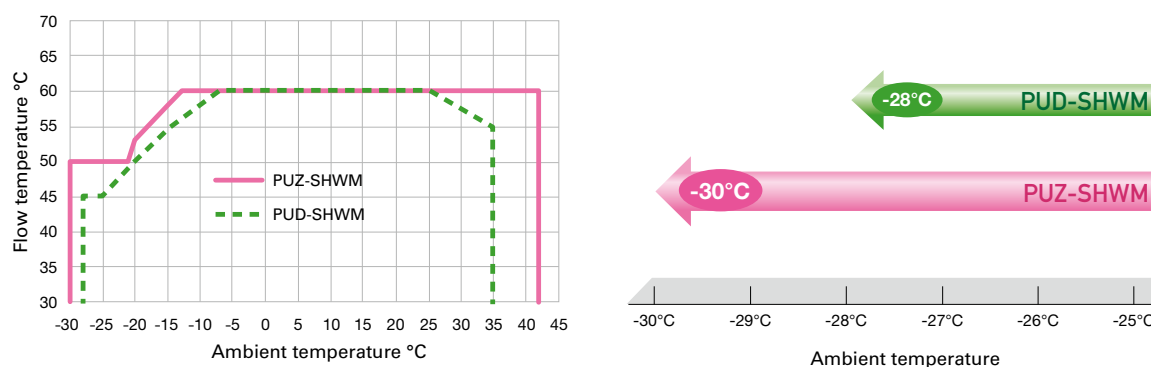
All models have achieved the "RANK A+++" for SCOP with average climate at low temperature. Thanks to further design optimization, new PUZ is achieving better performance and contributing to reduce energy consumption in a wide range.



High Performance

Guaranteed Heating Operation Range is Extended to -30°C Ambient Temperature

Mitsubishi Electric's unique technology and compressors allow the heat pump to achieve the wider guaranteed heating operation range. 60°C max flow temperature can be maintained down to ambient -13°C. Even at ambient -30°C, the flow temperature can be kept 50°C.



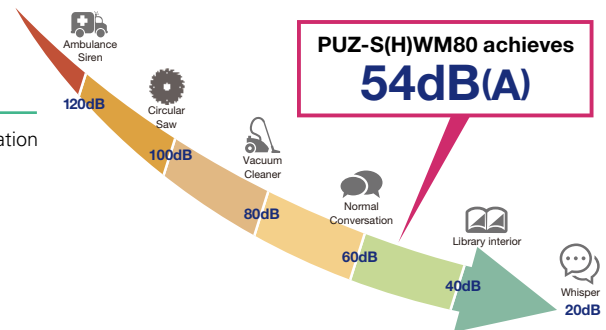
Quiet Performance

Improved noise reduction

PUZ achieves quieter operation than previous model with its double anti-vibration structure.

- New 60-80 models achieved 54dB(A) in PWL.
- New 100-140 models achieved 58dB(A) inPWL.

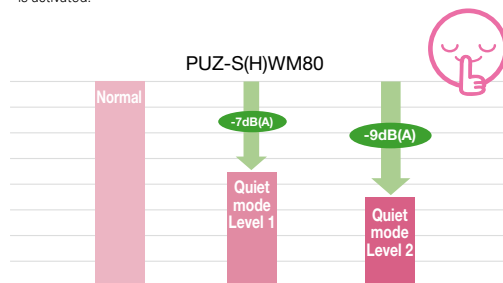
*Sound power level values are based on EN12102.



Quiet mode

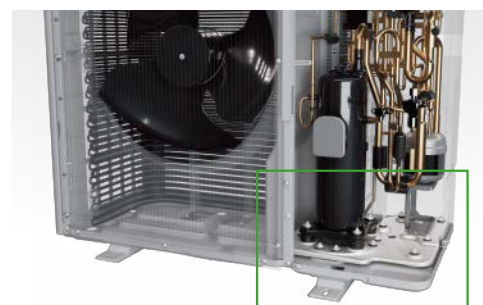
Three-stage quiet mode enables low-noise operation that can be adjusted to meet severe noise conditions.

*The cooling and heating capacity may drop when Quiet mode is activated.



Double anti-vibration structure

This double structure of an anti-vibration plate and foot rubbers reduces vibration noise to provide high quality performance while minimizing noise.



The rate of vibration transmission is greatly reduced by installing stat bolts and foot rubbers on the base and placing an anti-vibration plate on top of it.

In addition, three layers of felt around the compressor absorbs noise. With these unique sound insulation structures, the unit enables less restrictions in residential areas.

Installation

Piping length

Max piping length can achieve up to 50m* for more flexible installation.

Refrigerant amount

The necessary refrigerant amount has been reduced to 2,4kg at maximum, that's why the installation restrictions are limited.

No additional refrigerant charge (1.8kg) ➡ No indoor unit installation restrictions.

1.8~2.4kg of refrigerant ➡ Additional refrigerant charge allows up to 50m* piping length.

*For heating/cooling operation with PUZ-S(H)WM120/140, the max piping length is 30m.

Piping length and refrigerant charge amount

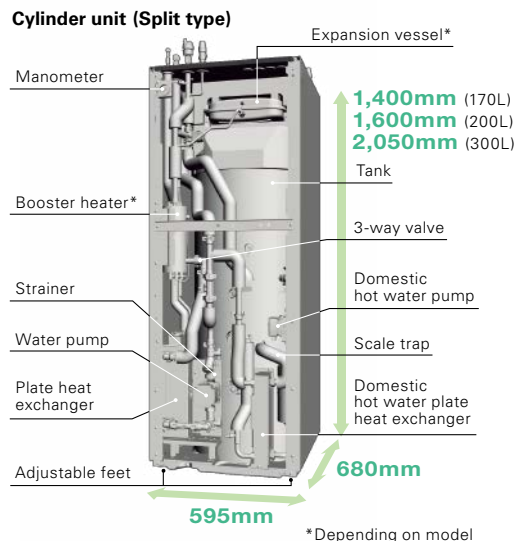
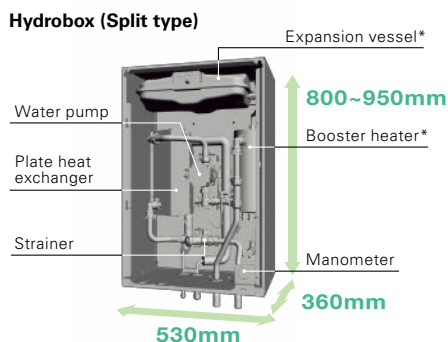
New PUZ achieves maximum 50m pipe length. This enables for flexible installation in any wider properties. To keep the maximum amount of refrigerant below 2.4 kg, the upper limit differs depending on heating only and reversible.

		Piping length	Initial amount	Refrigerant amount(kg)	2~3m	~5m	~10m	~15m	~20m	~25m	~30m	~35m	~40m	~45m	~50m
Heating only operation	PUZ-S(H)WM 60/80/100AA	2~50m	1.8kg	Total	1.8								2	2.1	2.2
				Additional charge	No additional charge								+0.20	+0.30	+0.40
	PUZ-S(H)WM 120/140AA	2~50m	1.8kg	Total	1.8							2	2.2	2.3	2.4
				Additional charge	No additional charge							+0.20	+0.40	+0.50	+0.60
Heating/Cooling operation	PUZ-S(H)WM 60/80/100AA	2~50m	1.8kg	Total	1.8			1.9	2	2.1	2.2	2.3	2.4		
				Additional charge	No additional charge			+0.10	+0.20	+0.30	+0.40	+0.50	+0.60		
	PUZ-S(H)WM 120/140AA	2~30m	1.8kg	Total	2.2	2.3	2.4								
				Additional charge	+0.40	+0.50	+0.60								

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
- Hydrobox is control ready for domestic hot water with a stand-alone tank (locally supplied)

Reversible Models

(for heating/cooling)

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.



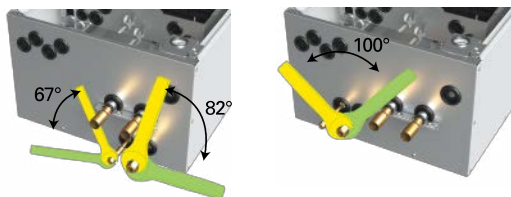
Built-in Drain Pan for Reversible Cylinder Models

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.

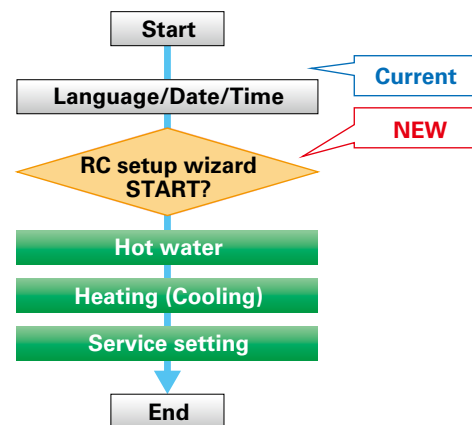
Easy Adjustment

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 2023 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

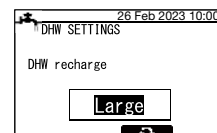
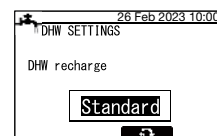


	170L	200L	300L
	η_{wh} [%]	η_{wh} [%]	η_{wh} [%]
Conventional	–	96~104	–
New	120~148	135~159	118~128
Load Profile	L	L	XL
DHW Rank	A+	A+	A/A+

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 to 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

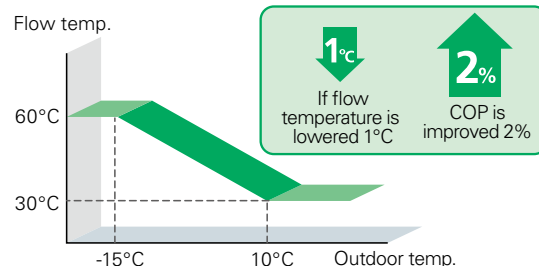
Auto Adaptation

Maximise Energy Savings While Retaining Comfort at All Times

Regarding the relation of flow temperature and unit performance, 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)



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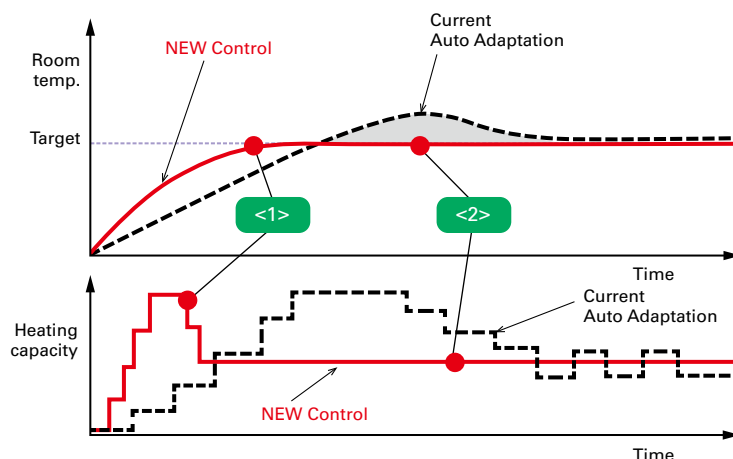
Auto Adaptation Improvement

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.



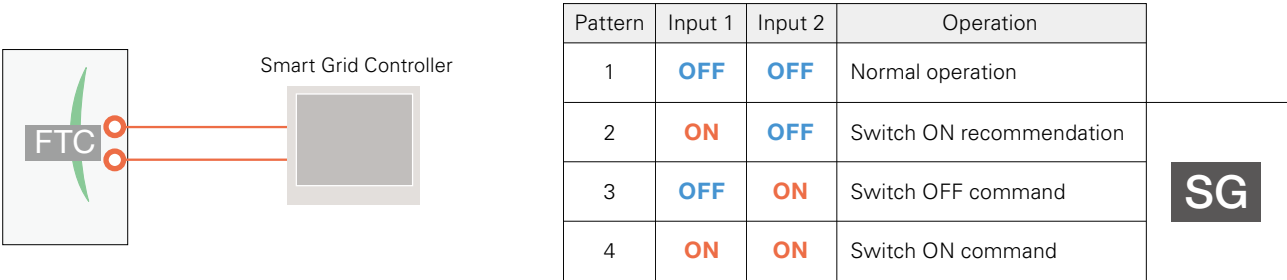
<1> Fast heating with improved accuracy in learning building heat load

<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.

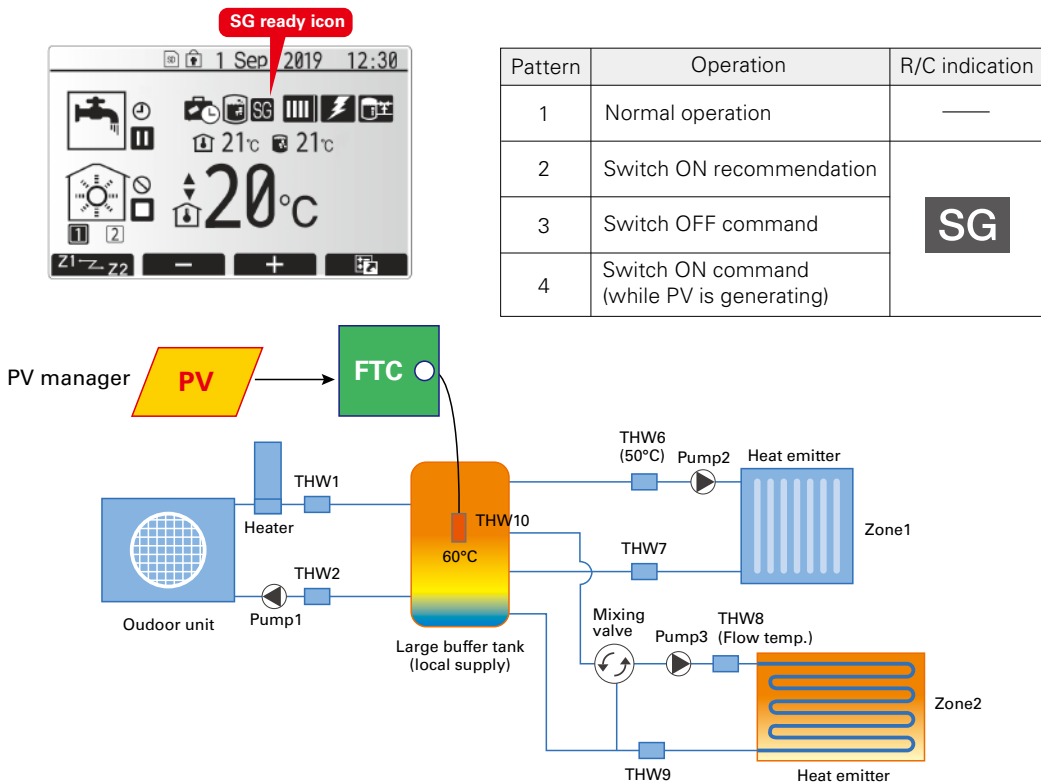
Pattern 4: Switch ON command

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.





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Intelligent Hybrid Control (boiler interlock)

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

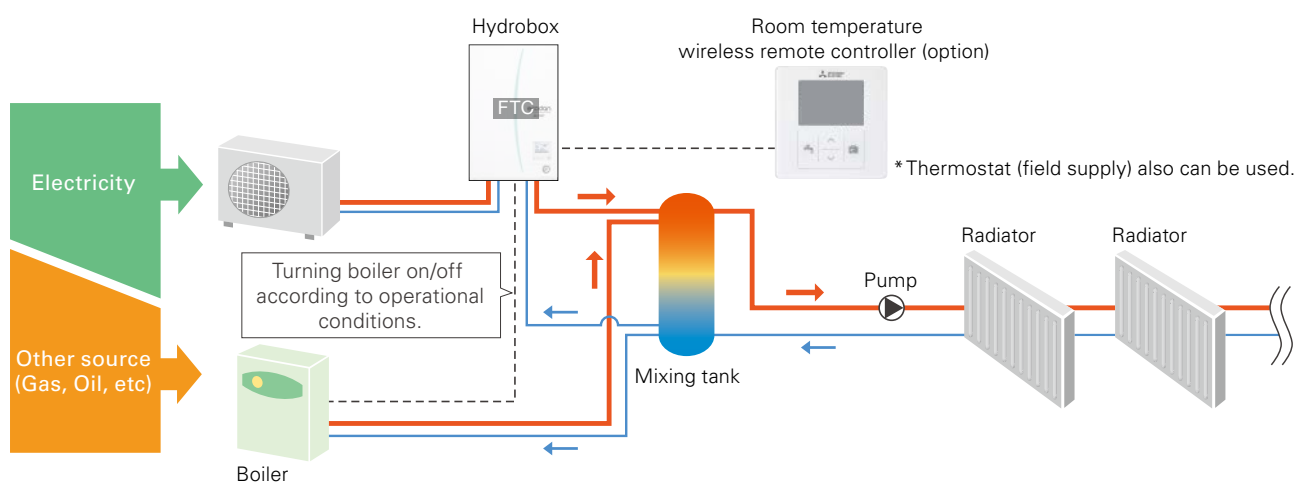
The flexibility of ecodan's intelligent control allows the system to be combined with the boiler currently in use. Additionally, this control can judge which heating source to use either ecodan or the existing boiler, based on various conditions*.

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.



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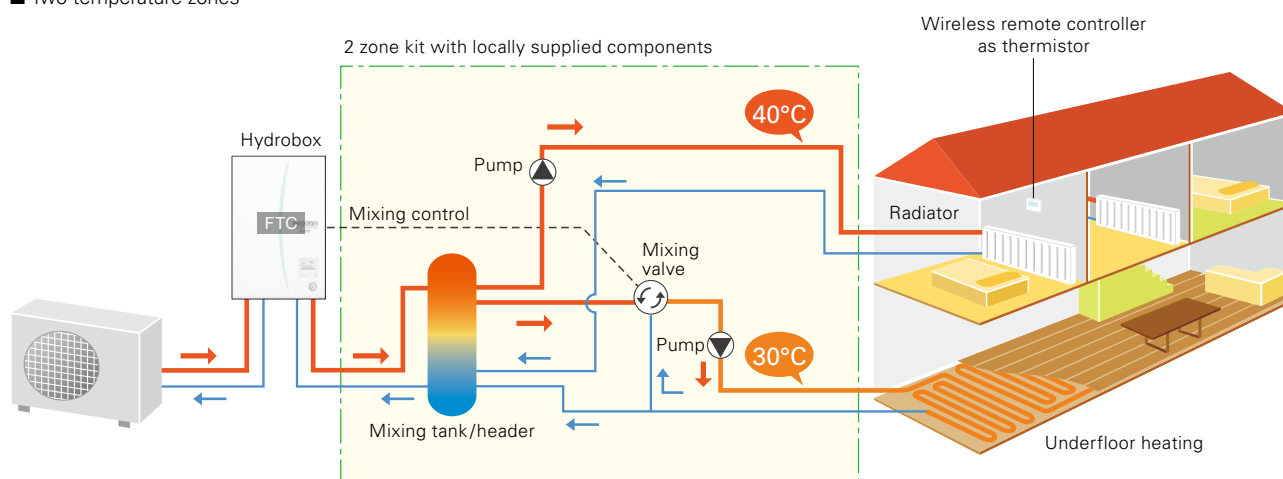
2 Zone Control (for heating/cooling)

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

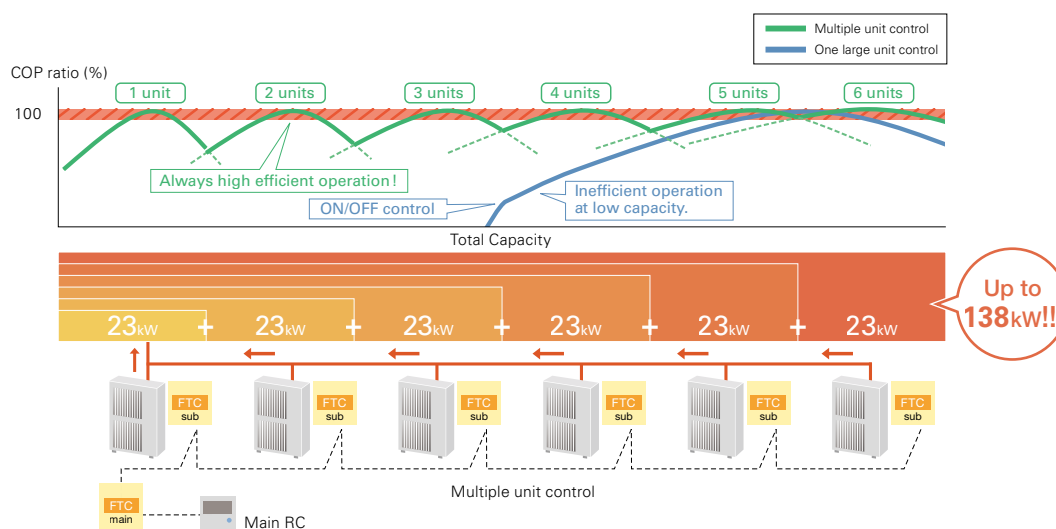
Connect up to 6 Units – Automatic Control of Multiple Units for Bigger Capacity and Better Efficiency

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

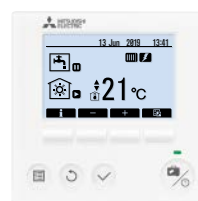
Smart User-friendly Controller with Stylish Design

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



Wireless remote controller (Option)
PAR-WT60R-E



Wall-mounted*



Standing

*The included screws are installed in this image.



Receiver (Option)
PAR-WR61R-E

Wireless remote controller (optional)

- Remote control from any room with flexible installation location
- Built-in room temperature sensor; easy to place at various positions to detect the room temperature
- New sleek designed flat panel and touch buttons for intuitive operation
- Backlight and big buttons for better usability
- No cabling required thanks to wireless connectivity
- Domestic hot water boost and cancellation function
- Holiday mode for energy saving with simple operation
- You can choose to mount it on the wall or place it on a stand
- A red LED for error indication is added to notify users of abnormal conditions such as backup heater operation or low battery level.



*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.

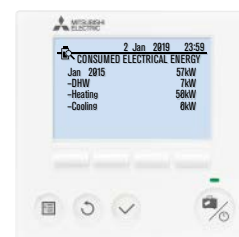
*This function is available depending on the version of the outdoor unit model.



Heating capacity produced



Electric energy used



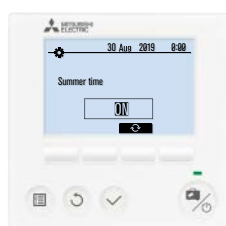
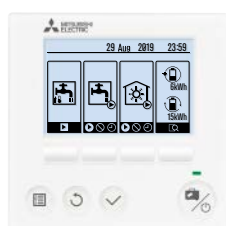
*SD logo is a trademark of SD-3C, LLC

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.

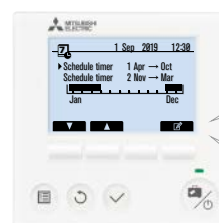


Two Separate Schedules

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 |

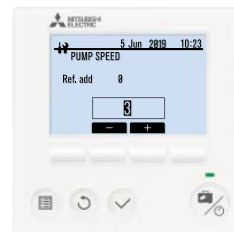
Easy Commissioning

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.

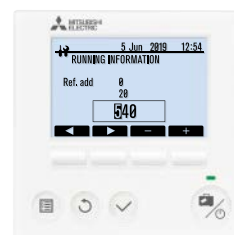
*Speed setting of pump for domestic hot water is not available through the main remote controller when the system is running.



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.



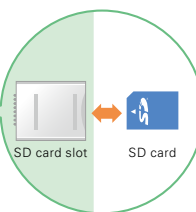
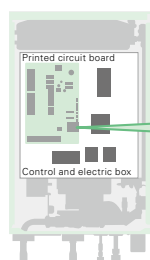
*SD logo is a trademark of SD-3C, LLC

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.

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.

PXZ SERIES

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 Every Home's Needs

All-in-one outdoor unit: air conditioning, domestic hot water supply and hot water heating



PXZ for summer

PXZ enables cooling of multiple rooms by ATA and supply hot water by ATW.



PXZ for winter

PXZ enables heating of multiple rooms by ATA and supply hot water by ATW.

Indoor unit line up

Air-to-Air Wall-mounted

MSZ-LN



MSZ-EF



MSZ-AP



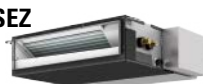
Floor-standing MFZ



1-way Cassette MLZ



Ceiling-concealed PEAD SEZ



Ceiling-suspended PCA



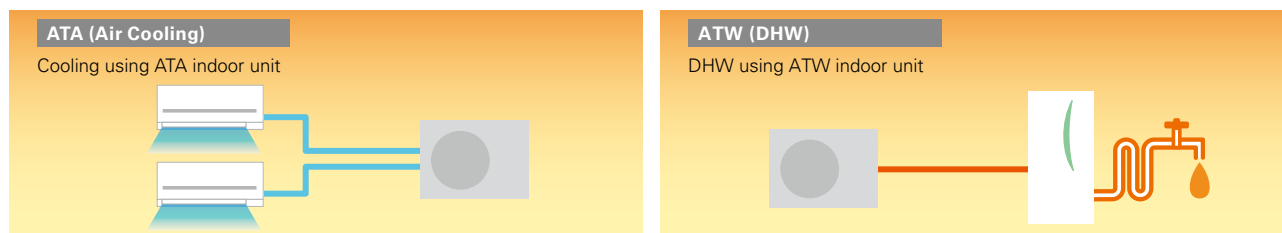
Air-to-Water Ecodan Hydrobox/Cylinder



Usage Patterns All-in-one System Solution

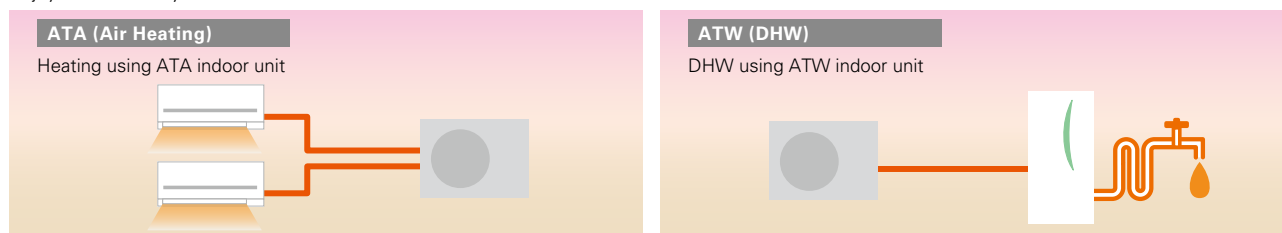
Summer 2-in-1 Operation

Secure total indoor comfort by cooling with ATA and producing DHW by ATW in summer. During the times your ATA is not cooling, your heat pump will produce DHW stored in your tank. Hot summer days will become a breeze with cooling ATA and you can enjoy DHW for all your needs with ATW.



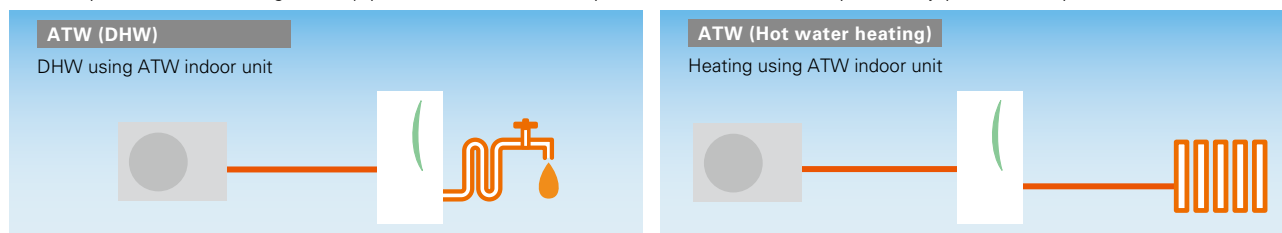
Spring & Autumn 2-in-1 Operation

Secure total indoor comfort by heating with ATA and producing DHW by ATW in spring and autumn. During the times your ATA is not heating, your heat pump will produce DHW stored in your tank. ATA will quickly warm up your room even during the chilly morning and evening and you can enjoy DHW for all your needs with ATW.



Winter ecodan

Secure total indoor comfort by heating and producing DHW by ATW in winter. During the times your ATW is not heating, your heat pump will produce DHW stored in your tank. ATW heating will keep your home warm all the day in severe cold weather and you can enjoy DHW for all your needs with ATW.



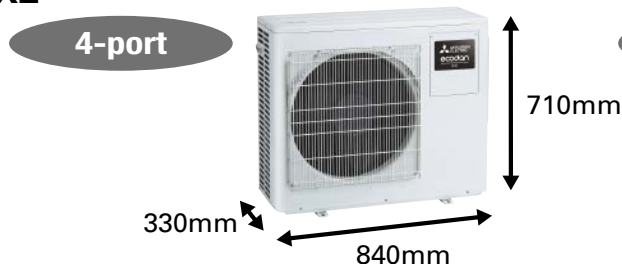
* If DHW operation starts during ATA operation, ATA operation will temporarily stop. Therefore, it is recommended to set a schedule timer so that DHW operates during the night or when you are not at home.

Outdoor unit line up

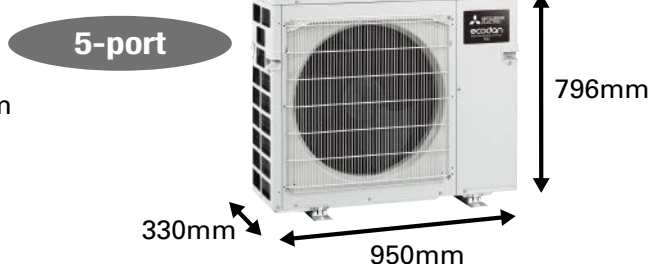
Compact design fitting into narrow spaces, ideal for condominiums and villas.

New system PXZ

PXZ-4F75VG

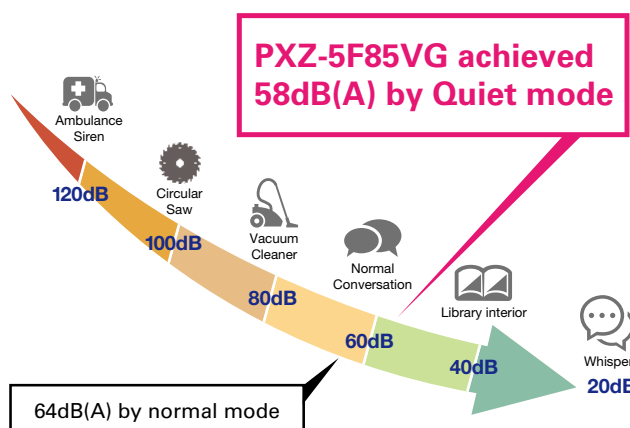


PXZ-5F85VG



Quiet mode

Quiet mode allows PXZ to run silently while cooling or heating your home.



* The cooling and heating capacity may drop if this function is activated.

* When the outside air temperature is low during heating, the heating capacity is prioritized and the unit may not be quiet. Also, if the outside air temperature is high during cooling, the cooling capacity is prioritized and the unit may not be quiet.

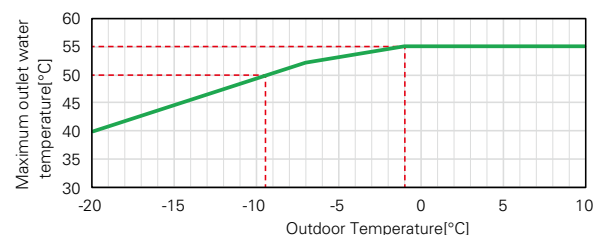
* Sound power level values are based on EN12102.

* Capacity values are based on EN14511

*To activate Quiet mode, changing the setting is required.

Max 55°C outlet water temp

For the hot water supply with PXZ, a maximum outlet water temperature of 55°C is secured.



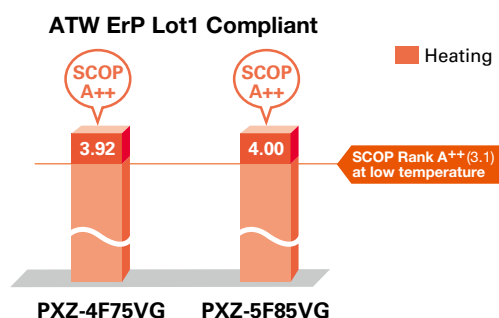
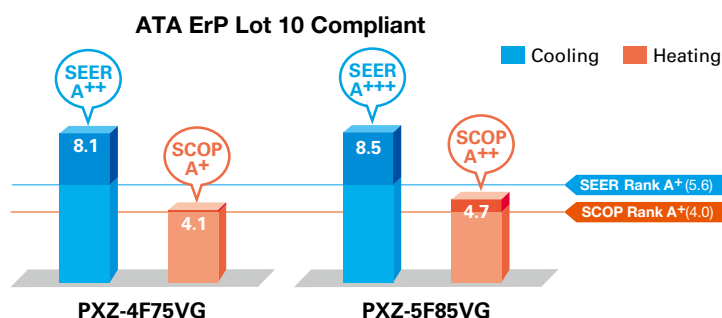
High Performance Hot Water Supply

ErP Lot 1 Compliant with highest seasonal space heating energy efficiency class A++.



Low GWP refrigerant R32 contributes the reduction of CO₂ emission compared with conventional R410A refrigerant.

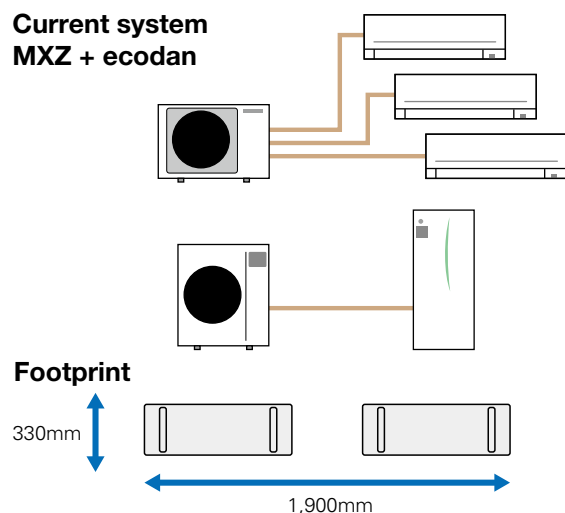
A+++ Class Energy Efficiency



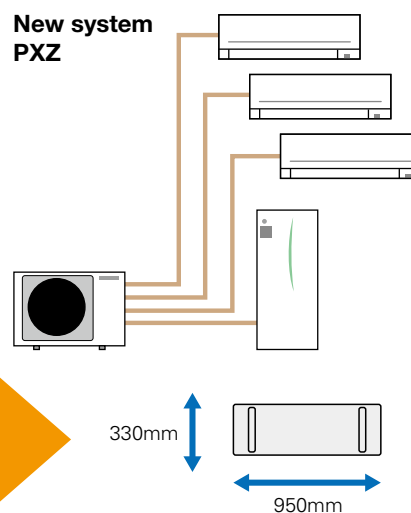
New System Benefits

End users only need to purchase a single outdoor unit, as PXZ is connectable to both RAC and Ecodan. With house expansions or room redistributions, additional indoor units can be installed in the future.

Current system MXZ + ecodan



New system PXZ

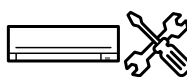


1/2 space !

And more benefits like...



Cost saving by reducing the number of systems.



Additional indoor units up to 4 or 5 ports can be installed.

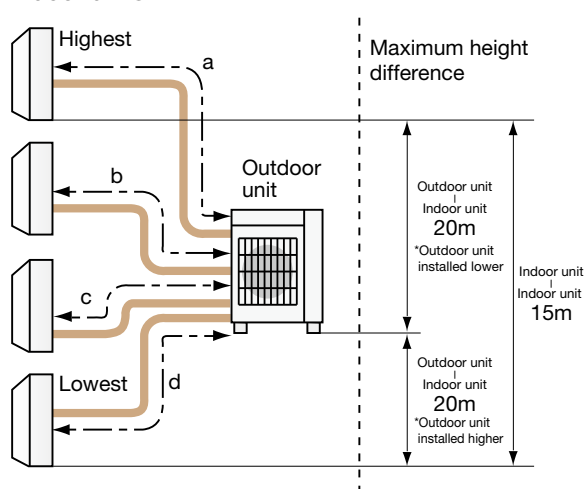
Specifications

PXZ-4F75VG

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	30m
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

Indoor units

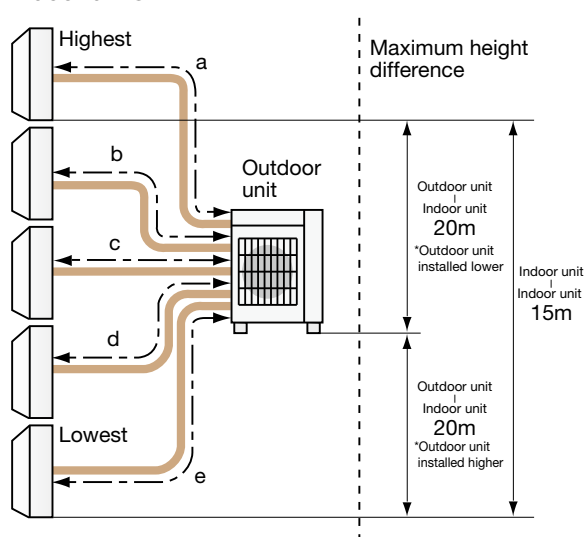


PXZ-5F85VG

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	30m
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

Indoor units



Specifications

Outdoor Unit					PXZ-4F75VG	PXZ-5F85VG	
Air-to-Air (ATA)	Cooling	Capacity	Rated (35°C)	kW	7.2	8.3	
			Min-Max	kW	3.7-8.8	3.7-9.2	
		Total Input	Rated (35°C)	kW	1.85	1.97	
		EER			3.89	4.21	
		Design load			kW	7.2	8.3
		Annual electricity consumption*1			kWh/a	311	342
		SEER*2			8.1	8.5	
		Energy efficiency class			A++	A+++	
		Heating	Capacity	Rated (7°C)	kW	8.6	9.3
				Rated (-7°C)	kW	6.20	6.20
	Min-Max (7°C)			kW	3.4-10.7	3.4-11.6	
	Total Input		Rated (7°C)	kW	1.87	2.00	
	COP			4.60	4.65		
	Design load			kW	7.0	7.0	
	Declared Capacity		at reference design temperature	kW	5.6	5.8	
			at bivalent temperature	kW	6.2	6.2	
			at operation limit temperature	kW	4.8	4.9	
	Back up heating capacity			kW	1.4	1.2	
	Annual electricity consumption*1			kWh/a	2,389	2,087	
	SCOP*2			4.1	4.7		
	Energy efficiency class			A+	A++		
	Sound Level (SPL)		Cooling			dB(A)	48
		Heating			dB(A)	54	51
	Sound Power Level (PWL)	Cooling			dB(A)	63	61
		Heating			dB(A)	69	63
Outdoor unit	Supply(V/Phase/Hz)				230V/1 phase/50Hz		
	Air Volume	ATA heating		m3/min	42.7	62	
		ATA Cooling		m3/min	35.4	57	
		ATW heating		m3/min	42.7	62	
		ATW DHW (ecodan indoor unit)		m3/min	42.7	62	
	Guaranteed Operating Range	ATA heating		°C	-20°C DB-24°C DB	-20°C DB-24°C DB	
		ATA Cooling		°C	-10°C DB-46°C DB	-10°C DB-46°C DB	
		ATW heating		°C	-20°C DB-24°C DB	-20°C DB-24°C DB	
		ATW DHW (ecodan indoor unit)		°C	-20°C DB-35°C DB	-20°C DB-35°C DB	
	Dimensions		H×W×D	mm	710×840(+30)×330(+66)	796×950×330	
	Weight			kg	59	62	
	Packaged Dimension		H×W×D	mm	870×1010×460	950×1050×440	
	Packaged Weight			kg	68	74	
	Operating Current (max)			A	18	21.4	
	Breaker Size			A	25	25	
Ext.Piping	Diameter		Liquid/Gas	mm	6.35x4/12.7x1+9.52×3	6.35x5/12.7x1+9.52×4	
	Each indoor unit piping length (max)			m	30	30	
	Max.Length		Out-In	m	60	70	
	Max.Height		Out-In	m	20	20	
	Chargeless length			m	60	70	
Refrigerant	Amount			Pre-charged	kg	2.4	2.4
				Maximum	kg	2.4	2.4
						R32*3	R32*3
Number of total port	Available indoor unit ATA			Quantity		1~3	1~4
	Available indoor unit ATW			Quantity		1	1
ecodan connection (Mitsubishi Electric supplied indoor unit)	Heating*4	A7W35	Capacity nom	kW	7.5	8.5	
			Capacity max	kW	9.3	10.0	
			Total Input nom	kW	1.80	1.96	
			Total Input max	kW	2.61	2.51	
			COP nom		4.17	4.34	
			COP max		3.57	3.99	
		A7W55	Capacity	kW	7.50	8.50	
			Total Input	kW	3.05	3.26	
			COP		2.46	2.61	
		A2W35	Capacity nom	kW	6.80	7.80	
			Capacity max	kW	6.80	7.80	
			Total Input nom	kW	2.43	2.60	
			Total Input max	kW	2.43	2.60	
			COP nom		2.80	3.00	
			COP max		2.80	3.00	
		SSHE 35°C Average condition	Class			A++	A++
			ηS			154%	157%
			SCOP			3.92	4.00
			Class			A+	A+
		SSHE 55°C Average condition	ηS			113%	111%
			SCOP			2.91	2.86
			Class			A+	A+
			Class			A+	A+
	DHW (ecodan indoor unit)	DHW 200L Load Profile					
		Average condition			ηVH	124%	122%
COP DHW				2.99	2.97		
Max outlet water temprature				°C	55	55	
Sound Level (SPL)	Heating			dB(A)	57	54	
	DHW (ecodan indoor unit)			dB(A)	57	54	
Sound Power Level (PWL)	Heating			dB(A)	67	64	
	DHW (ecodan indoor unit)			dB(A)	67	64	

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

*2 SEER/SCOP values are measured based on EN14825.

*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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 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.

*4 Air-to-Water values are measured based on EN14511 (Circulation pump input is not included.).

PXZ + ecodan ATA Compatibility Table

Indoor unit		Outdoor unit		PXZ	
				4F75VG	5F85VG
M series	Wall Mounted	MSZ-RW25VG		○	○
		MSZ-RW35VG		○	○
		MSZ-RW50VG		○	○
		MSZ-LN18VG2		○	○
		MSZ-LN25VG2		○	○
		MSZ-LN35VG2		○	○
		MSZ-LN50VG2		○	○
		MSZ-LN60VG2			
		MSZ-EF18VG(K)		○	○
		MSZ-EF22VG(K)		○	○
		MSZ-EF25VG(K)		○	○
		MSZ-EF35VG(K)		○	○
		MSZ-EF42VG(K)		○	○
		MSZ-EF50VG(K)		○	○
		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-AY25VGK(P)		○	○
		MSZ-AY35VGK(P)		○	○
		MSZ-AY42VGK(P)		○	○
		MSZ-AY50VGK(P)		○	○
		MSZ-BT20VG(K)		○	○
		MSZ-BT25VG(K)		○	○
		MSZ-BT35VG(K)		○	○
		MSZ-BT50VG(K)			
	Floor Standing*1	MSZ-BT50VG(K)		○	○
		MFZ-KT35VG		○	○
		MFZ-KT50VG		○	○
	1-way Cassette*2	MLZ-KP25VF		○	○
		MLZ-KP35VF		○	○
		MLZ-KP50VF		○	○
		MLZ-KY20VG		○	○
S series	Ceiling Concealed	SEZ-M25DA(L)		○	○
		SEZ-M35DA(L)		○	○
		SEZ-M50DA(L)		○	○
		SEZ-M60DA(L)		○	○
		SEZ-M71DA(L)			○
		SEZ-M25DA(L)2		○	○
		SEZ-M35DA(L)2		○	○
		SEZ-M50DA(L)2		○	○
		SEZ-M60DA(L)2		○	○
		SEZ-M71DA(L)2			○
P series	Ceiling Suspended*3	PCA-M50KA		○	
		PCA-M60KA		○	
		PCA-M71KA			
		PCA-M50KA2		○	
		PCA-M60KA2		○	
	Ceiling Concealed*3	PEAD-M50JA(L)		○	○
		PEAD-M60JA(L)		○	○
		PEAD-M71JA(L)		○	○

*Total ATA IU HEX volume should NOT exceed a certain level. Please contact us for the further information.

- *1 When connecting to MFZ, MAC-001MF is required to install to suppress noise.
 *2 When connecting to MLZ, electric heater is required for outlet water temperature over 40°C.
 *3 When connecting to PEAD-M60/71 or PCA-M60/71, it is prohibited to connect other ATA.

PXZ + ecodan ATW Compatibility Table

Indoor unit		Outdoor unit		PXZ	
				4F75VG	5F85VG
Cylinder		EHST17D-VM2D		○	○
		EHST17D-YM9D		○	○
		EHST20D-VM2D		○	○
		EHST20D-VM6D		○	○
		EHST20D-YM9D		○	○
		EHST20D-YM9ED		○	○
		EHST20D-TM9D		○	○
		EHST30D-VM6ED		○	○
		EHST30D-YM9ED		○	○
		EHST30D-TM9ED		○	○
		ERST17D-VM2D		○	○
		ERST17D-VM6D		○	○
		ERST20D-VM2D		○	○
		ERST20D-VM6D		○	○
		ERST20D-YM9D		○	○
		ERST30D-VM2ED		○	○
		ERST30D-VM6ED		○	○
		ERST30D-YM9ED		○	○
Hydrobox		EHSD-VM2D		○	○
		EHSD-VM6D		○	○
		EHSD-YM9D		○	○
		EHSD-YM9ED		○	○
		EHSD-TM9D		○	○
		ERSD-VM2D		○	○
		ERSD-VM6D		○	○
		ERSD-YM9D		○	○

New Optional Parts Compatibility Table

Parts name	Model name	PXZ	
		4F75VG	5F85VG
Drain hose heater connector	MAC-062RA-E	○	○
Muffler*	MAC-001MF-E	○	○

*Please connect the muffler to the gas piping within 3 meters from the piping connection port of the outdoor unit.

*Please attach this if you are concerned about refrigerant noise.

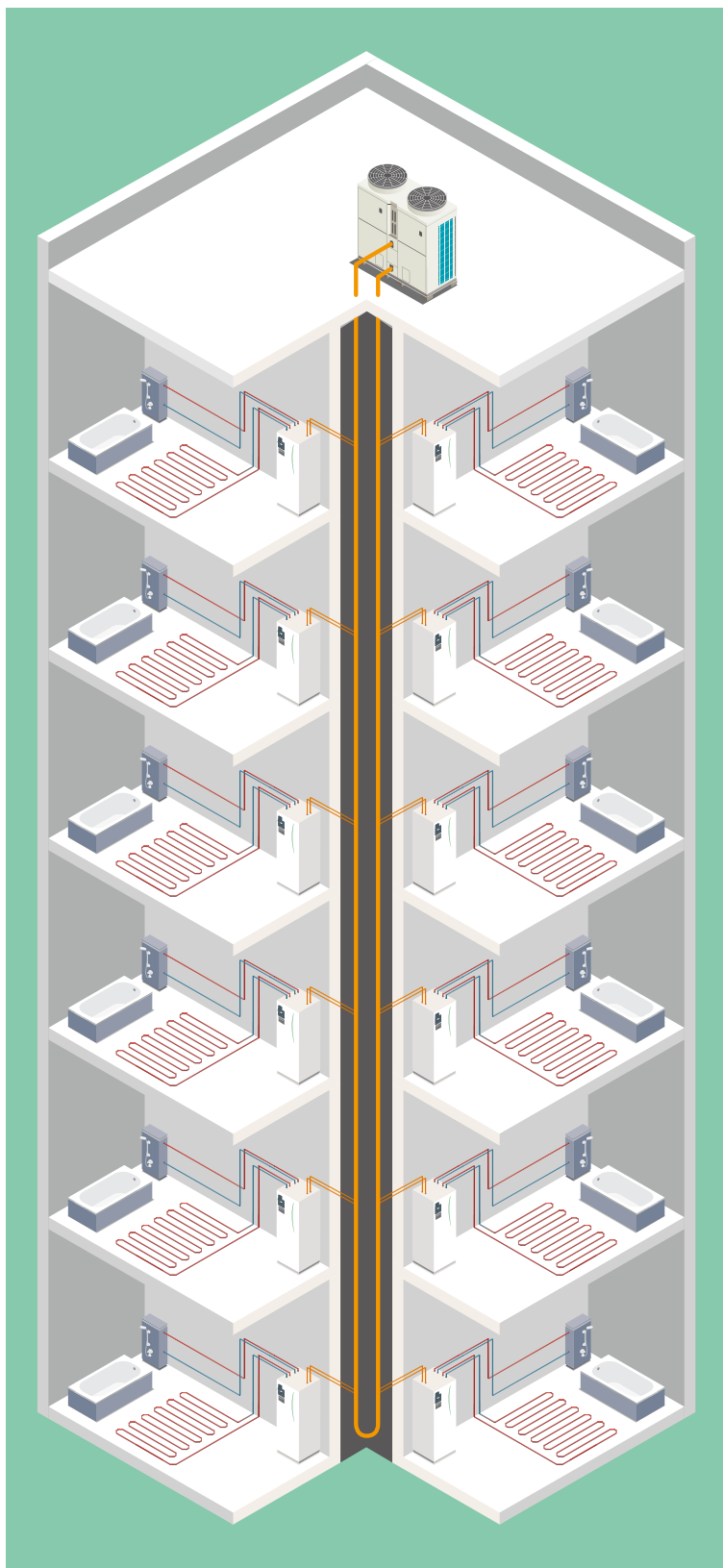
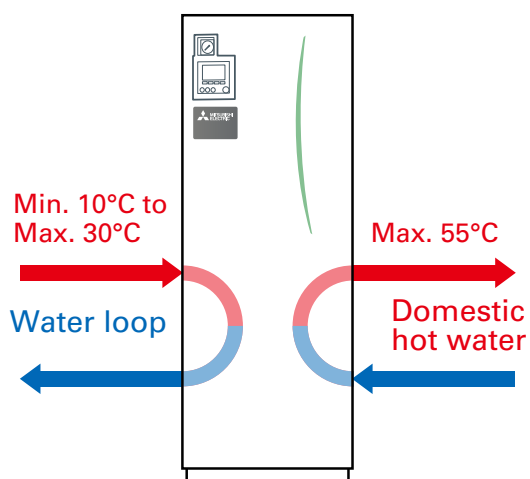
ecodan hydrodan

Excellent Performance with Mitsubishi Electric's First Residential Water Source Heat Pump



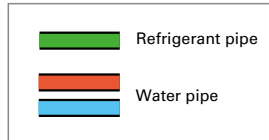
Ecodan hydrodan is a space heating and hot water supply system connected to the central water loop installed in the multi-residential apartments.

Conventionally, space heating and hot water supply is carried out by circulating high-temperature water generated using fossil fuels. However, ecodan hydrodan creates hot water receiving heat from a low-temperature water loop with our unique heat pump technology, allowing the system to run using less energy. In addition, the installation of a unit in each room enables optimal space heating and hot water supply to individual rooms, replacing the conventional central heating system.



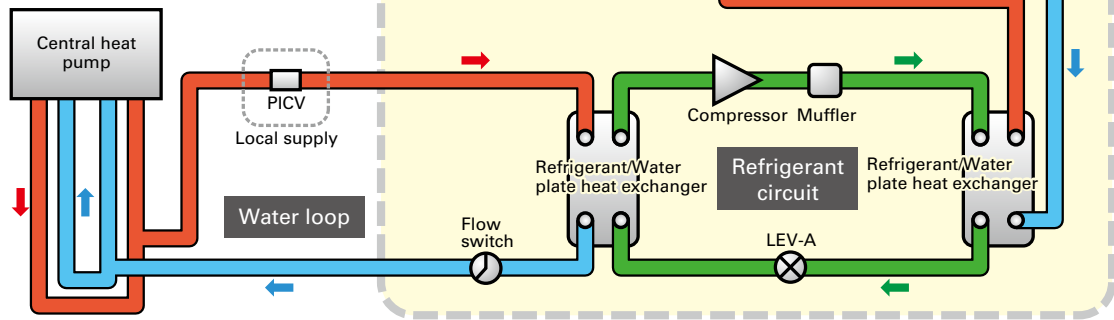
Water/Refrigerant Circuit

Ecodan hydrodan receives the heat generated by the water loop coming from the central heat pump. The heat energy is then increased in the refrigerant circuit, transferred to the water circuit, and used to produce hot water for space heating and hot water supply.



The flow rate from the water loop to ecodan hydrodan is controlled by PICV (Pressure Independent Control Valve)*. Ecodan hydrodan operates properly, controlling the flow rate by the PICV. PICV is installed on the piping from the water loop and controlled by connecting it to FTC (flow temp control) of ecodan hydrodan.

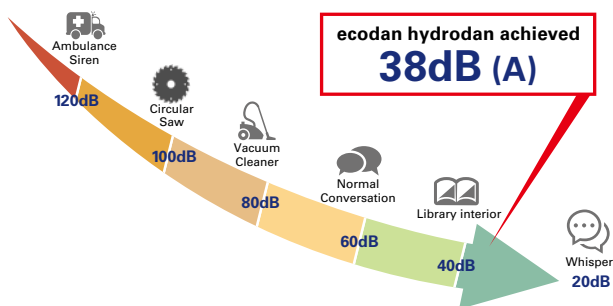
*It is not included and need to be purchased locally.



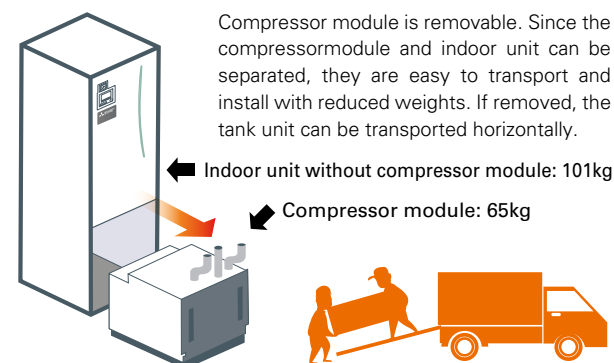
Comfort with Quietness

Mitsubishi Electric heat pumps are designed to give you highly efficient and eco-friendly heating with the lowest possible noise level. Ecodan hydrodan achieved industry-leading low noise, 38dB(A)*.

*Condition is L10/W35



Easy Transportation



Quieter Design

The triple covering structure of the compressor unit greatly reduces sound level through noise absorption.

1st Cover

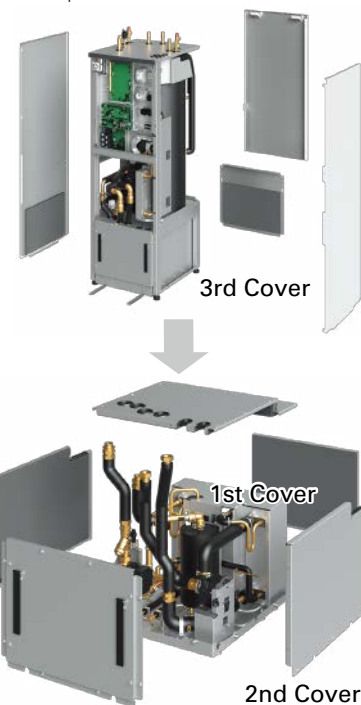
Compressor sound insulation box (with noise absorbing felt and damper)

2nd Cover

Module Box (with noise absorbing felt)

3rd Cover

Outside panel (with noise absorbing felt)



Specifications

Model Name			EHWT17D-MHEDW	
Performance Information	L20 / W35	Heating Capacity (min-max)	kW	1.2 - 8
		Power Input (min-max)	kW	0.3 - 1.0
		COP (Nom.)	-	9.2
	L20 / W45	Heating Capacity (min-max)	kW	1.1 - 7.5
		Power Input (min-max)	kW	0.5 - 1.3
		COP (Nom.)	-	6.3
	L20 / W55(DHW)	Heating Capacity (DHW)	kW	6.3
		Power Input (DHW)	kW	1.3
		COP (DHW)	-	5.0
	L25 / W35	Heating Capacity (min-max)	kW	1.5 - 9.3
		Power Input (min-max)	kW	0.2 - 1.0
		COP (Nom.)	-	11.3
	L25 / W45	Heating Capacity (min-max)	kW	1.3 - 8.5
		Power Input (min-max)	kW	0.4 - 1.3
		COP (Nom.)	-	7.8
Loop Information	L25 / W55(DHW)	Heating Capacity (DHW)	kW	6.8
		Power Input (DHW)	kW	1.5
		COP (DHW)	-	5.4
		Heating Circuit Flow Rate (min - max)		7.1 - 27.7
Heating Information	Control Type		-	PICV + Actuator
	Inlet Temperature Range (min - max)		deg C	10 - 30
	Flow Rate (min - max)		L/min	7.2 - 24
	Maximum Loop Pressure Rating		bar	10
	Pipe Connection Sizes		mm	22
Electrical Information	Flow Temperature Range (min-max)		deg C	20-60
	Flow Rate (min-max)		L/min	7.1-27.7
	Maximum Primary Circuit Pressure Rating		bar	3
	Pipe Connection Sizes		mm	28
	Voltage/Phase/Frequency		V/ph/Hz	230V/1ph/50Hz
General Information	Fuse Rating, Heat Pump/Immersion Heater		A	16/20
	Number of Connections		-	2
	Immersion Rating (Tank)		kW	3
	Start up Current		A	3.1
	Unit Dimensions (W x D x H)		mm	595 x 680 x 1750
	Compressor Type		-	Rotary compressor
	Domestic Hot Water Tank Volume (net)		L	170
	Weight (empty)		kg	166
	Weight (full)		kg	345
	Refrigerant		-	R32 ^{*1}
	Volume of Refrigerant		kg	0.9
	Heating Temperature Range		deg C	20 - 60
	Hot Water Temperature Range		deg C	40 - 60
	Internal Water Volume loop side / heating side		L	3.16 / 5.47
	Sound Power Level ^{*2}		dB	38
	Sound Pressure Level at 1m		dB	27

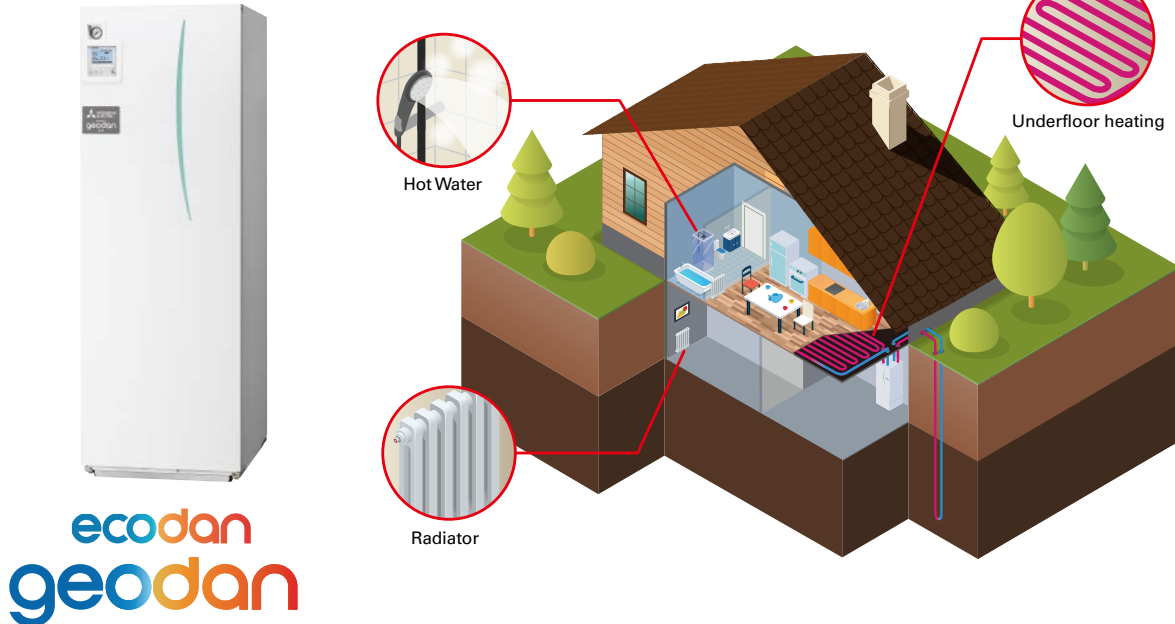
^{*1} Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 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} Sound power levels are measured based on EN12102.

ecodan geodan

Excellent Performance with Mitsubishi Electric First Residential Ground Source Heat Pump

Ground source heat pump works best especially in replacement from old ground source heat pump.



Performance / Function

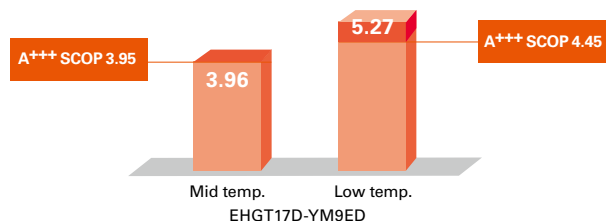
High Performance

ErP Lot 1 Compliant with highest seasonal space heating energy efficiency class A+++.

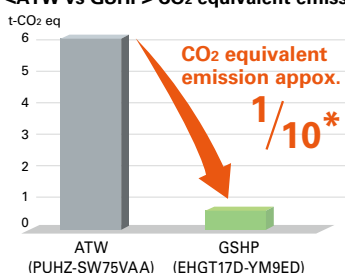


Low GWP refrigerant R32 contributes the reduction of CO₂ emission compared with conventional R410A refrigerant.

A+++ Class Energy Efficiency



<ATW vs GSHP> CO₂ equivalent emission

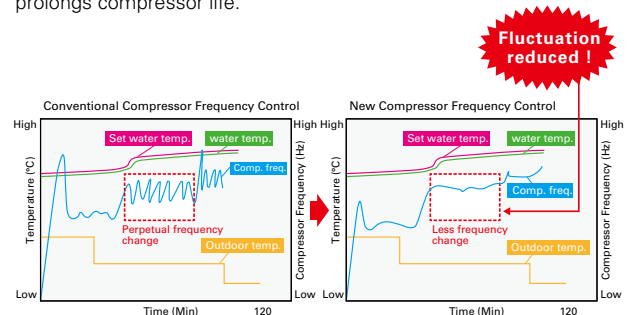


Model name	PUHZ-SW75VAA	EHGT17D-YM9ED
Refrigerant amount	3.0kg	0.9kg
GWP	2088 (R410A)	675 (R32)
t-CO ₂ eq	6.264	0.608

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

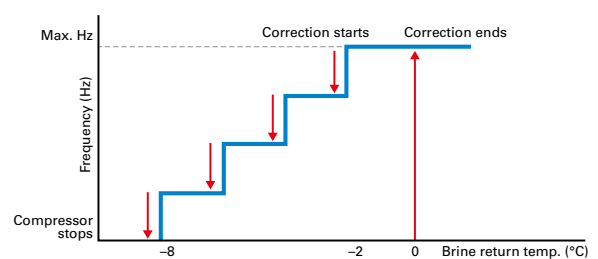
New Compressor Frequency Control

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.

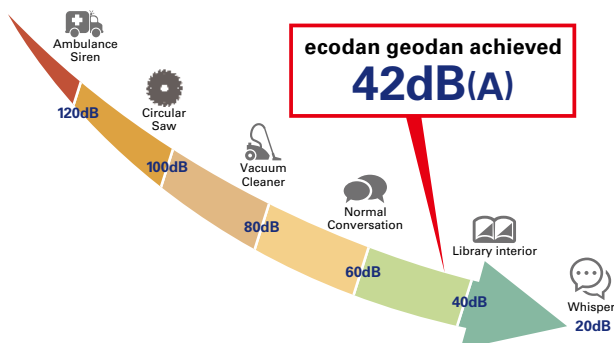


When the brine return temperature is below -8°C and brine outlet temperature is below -12°C, the unit operates only by booster heater. The correction temperature can be changed by dip SW.

Comfort with Silence

Mitsubishi Electric heat pumps are designed to give you highly efficient and eco-friendly heating with the lowest possible noise level. ecodan geodan achieved industry-leading low noise, 42dB(A)*.

* B0W35 Rated condition



Silencing Noise

The triple covering structure of the compressor unit greatly reduces sound level through noise absorption.

1st Cover

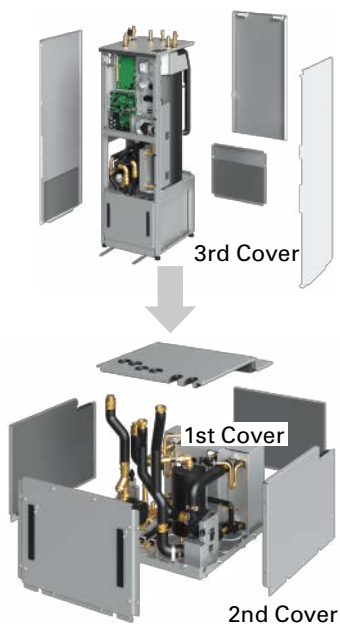
Compressor sound insulation box
(with noise absorbing felt and damper)

2nd Cover

Module Box
(with noise absorbing felt)

3rd Cover

Outside panel
(with noise absorbing felt)



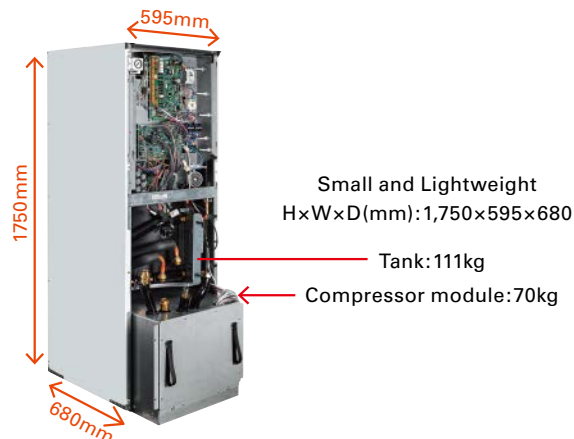
Avoiding Vibration Noise

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.



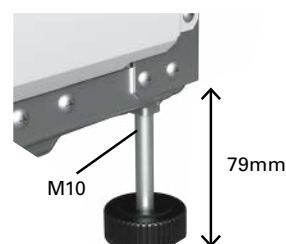
Flexible Piping Work

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.



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+++	
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_s values are measured based on EN14825. *3 η_{wh} values are measured based on EN16147. *4 Sound power levels are measured based on EN12102.

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

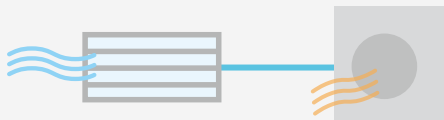
- ✓Domestic hot water (DHW) supply
- ✓Heating for multiple rooms



Various Operations

Mr. SLIM / ATA (Air Cooling)

Cooling using ATA indoor unit



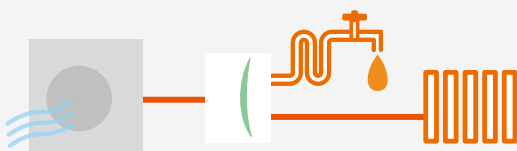
Mr. SLIM / ATA (Air Heating)

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	
		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	3.74	
		Design load			kW	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	
		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	943x950x330 (+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	19.0	
	Breaker size			A	25	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

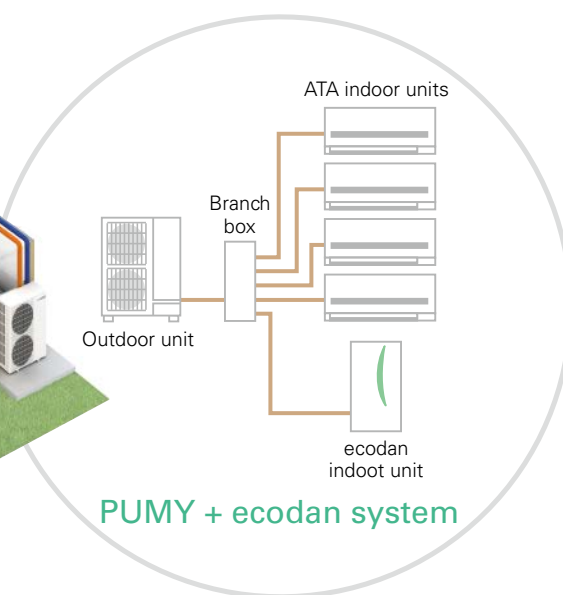
All-in-one outdoor unit (air conditioning, domestic hot water supply and hot water heating)

PUMY for Air-to-Air

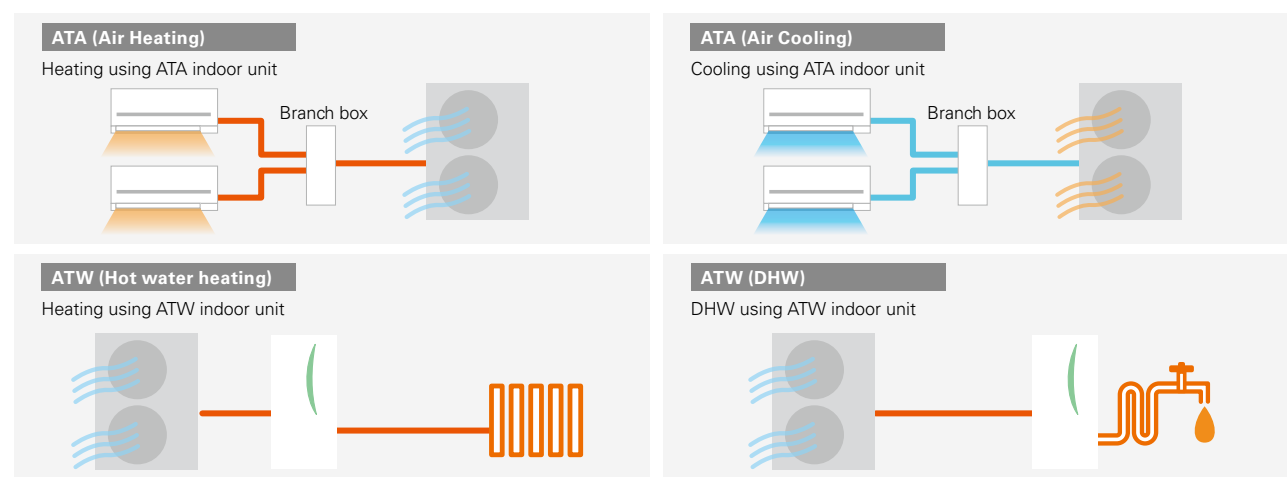
PUMY utilises various indoor units, enabling the air conditioning or heating of multiple rooms, and controls each unit individually.

ecodan for Air-to-Water

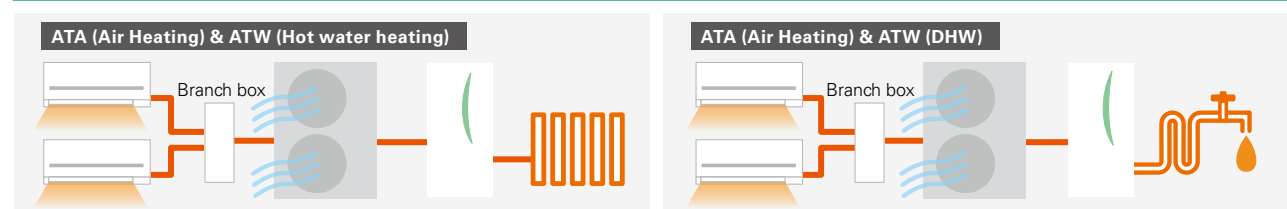
✓Domestic hot water (DHW) supply
✓Heating for multiple rooms



Main Operation Patterns



Optional Operation Patterns* (simultaneous)

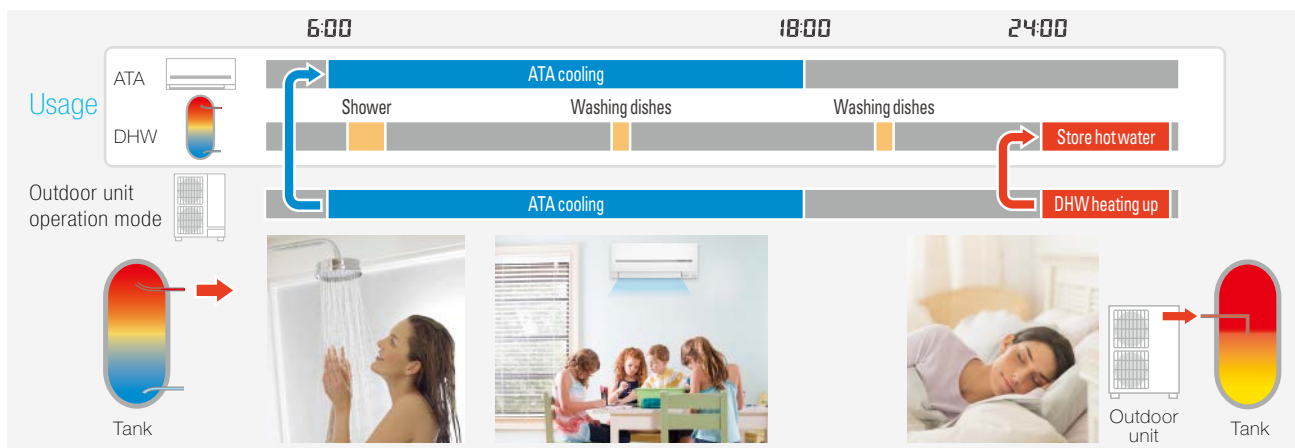


*When using optional simultaneous operation, there are some restrictions, such as connectable indoor units, operation range and DHW flow temp.

Usage Pattern All-in-one System Solution

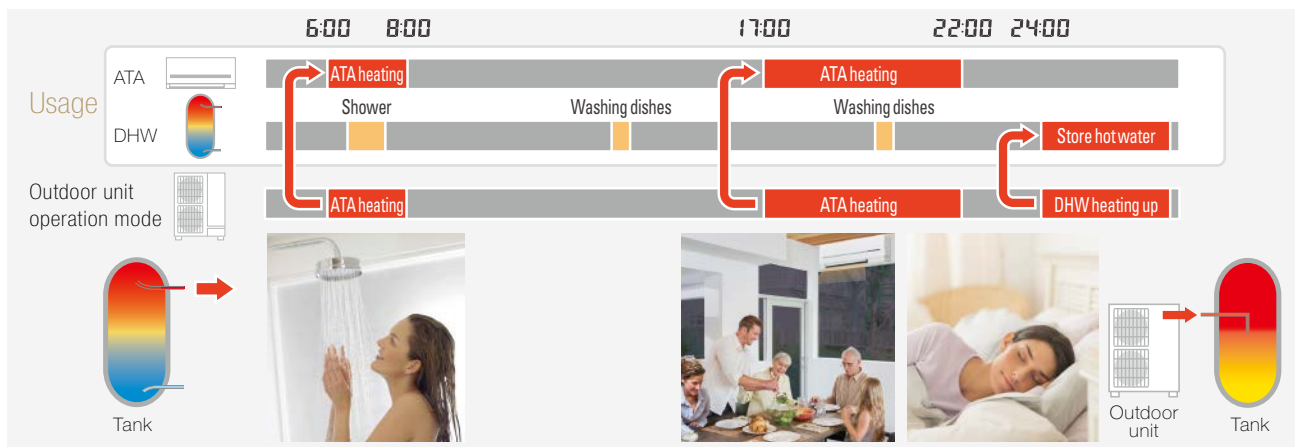
Summer 2-in-1 Operation

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.



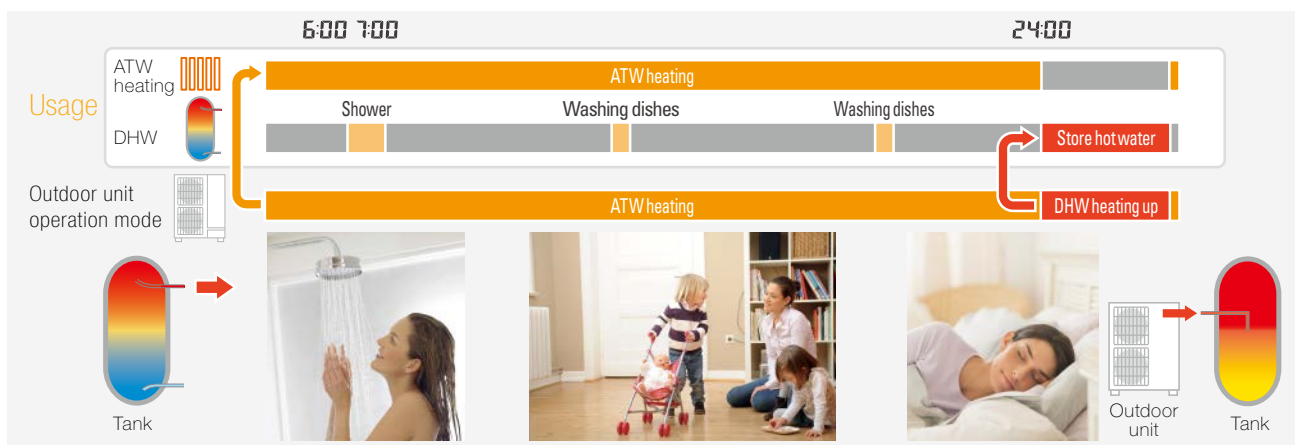
Spring & Autumn 2-in-1 Operation

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						
	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	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
	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	mm					
				Gas pipe	mm					
	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.

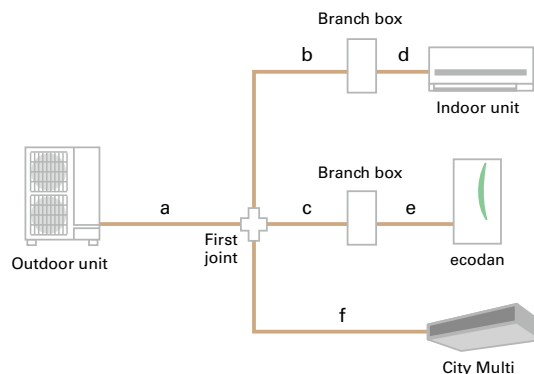
*11 In the case of City Multi connection, maximum is P32.

*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 ATW+ATA (no simultaneous operation) ATW (EHST20C or EHSC) + ATA: Max 130% of outdoor unit capacity

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 ATW+ATA ATW (EHST20C or EHSC) + ATA: Max 100% of outdoor unit capacity

Outdoor capacity 12.5kW		*Exceptionally, one MSZ-SF15VA or MSZ-AP15VF can be connected.
ATW indoor unit (Cylinder or Hydrobox) 11.2kW	ATA capacity Max. 1.3kW	
Outdoor capacity 14.0kW		*Exceptionally, two units of MSZ-SF15VA or MSZ-AP15VF can be connected.
ATW indoor unit (Cylinder or Hydrobox) 11.2kW	ATA capacity Max. 2.8kW	
Outdoor capacity 15.5kW		*Exceptionally, three units of MSZ-SF15VA or MSZ-AP15VF can be connected.
ATW indoor unit (Cylinder or Hydrobox) 11.2kW	ATA capacity Max. 4.3kW	

Split Type Specifications

Indoor unit

<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 (2/6/9 kW)	✓	✓	—	✓	✓	✓	✓	✓	—	✓	✓	✓	
Dimensions		HxWxD	mm	1400x595x680				1600x595x680				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 ~ 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)		200 / Stainless steel (Net)						300 / Stainless steel (Net)				
			°C	0 - 35 (≦80%RH)												
Guranteed operating range *1	Ambient															
	Outdoor	Heating	°C	See outdoor unit spec table												
		Cooling	°C	—												
Target temperature range	Heating	Room temperature		10 - 30												
		Flow temperature		20 - 60												
	Cooling	Room temperature		—												
		Flow temperature		—												
DHW tank performance	Max. hot water temperature		°C	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)>				Medium capacity										
Model name			Type	mm	EHST20C-MED	EHST20C-VM2D	EHST20C-VM6D	EHST20C-VM9D	EHST20C-VM9ED	EHST20C-TM9D	EHST30C-MED	EHST30C-VM6ED	EHST30C-VM9ED	EHST30C-TM9ED
					Heating only									
					—	✓	✓	✓	—	✓	—	—	—	—
					—	✓	✓	✓	✓	✓	—	✓	✓	✓
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 ~ 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)>			Small capacity							Medium capacity							Large capacity	
Model name		Type	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		
			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)>			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 Expansion vessel Booster heater (2/6/9 kW)			Heating and Cooling											
			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Dimensions	HxWxD	mm	1400x595x680	1400x595x680	1400x595x680	1750x595x680	1750x595x680	1600x595x680	1600x595x680	1600x595x680	2050x595x680	2050x595x680	2050x595x680	
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	
		Capacity	kW	2	2	2+4	2	3+6	2	2+4	3+6	2	2+4	
		Current	A	9	9	26	9	13	9	26	13	9	26	
		Breaker size	A	16	16	32	16	16	16	32	16	16	32	
Domestic hot water tank	Volume / Material		L / -	170 / Stainless steel (Net)					200 / 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 ⁺								A - 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)>				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)			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			A	
		Water heater energy efficiency class			A ⁺				
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)>			Small capacity				Medium capacity				Large capacity		
Model name			ERSD-MED	ERSD-VM2D	ERSD-VM6D	ERSD-YM9D	ERSC-MED	ERSC-VM2D	ERSC-VM6D	ERSC-YM9D	ERSE-MED	ERSE-YM9ED	
		Type	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	
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				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.

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			HxWxD	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		
Heater	Booster heater*2	Power supply (Phase / V / Hz)		~N, 230V, 50Hz		~N, 230V, 50Hz		~N, 230V, 50Hz		~N, 230V, 50Hz		~N, 230V, 50Hz		~N, 230V, 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	
			Heating and cooling						
Type									
Immersion heater			-	-	-	-	-	-	
Expansion vessel			✓	✓	✓	✓	-	-	
Booster heater			✓	-	✓	✓	✓	✓	
HxWxD			1400x595x680		1600x595x680		2050x595x680		
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 energy 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.

<Hydrobox (Heating only)>

Model name			EHPX-MED	EHPX-VM2D	EHPX-VM6D	EHPX-VM9D	EHPX-VM9ED	
			Heating only					
Type								
Immersion heater			-	-	-	-	-	
Expansion vessel			-	✓	✓	✓	-	
Booster heater			-	✓	✓	✓	✓	
Dimensions			HxWxD	800x530x360				
Weight (empty)			kg	25	32	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-VM9D	
<div>Type</div> <div>Immersion heater</div> <div>Expansion vessel</div> <div>Booster heater</div>			Heating and cooling				
			—	—	—	—	
			✓	✓	✓	✓	
			—	✓	✓	✓	
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.

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		HxWxD	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		HxWxD	mm	1020x1050x480	1020x1050x480	1350x950x330	1338x1050x330
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		

Split Type Specifications

				NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	
Outdoor unit				Eco Inverter									
Model name				Standard model				Hyper Heating model			Standard with base heater model		
				SUZ-SWM30VA	SUZ-SWM40VA2	SUZ-SWM60VA2	SUZ-SWM80VA2	SUZ-SWM100VA	SUZ-SHWM30VAH	SUZ-SHWM40VAH	SUZ-SHWM60VAH	SUZ-SWM80VAH2	SUZ-SWM100VAH
Refrigerant				R32*1									
Dimensions		HxWxD	mm	714x800x285	714x800x285	714x800x285	880x840x330	880x840x330	714x800x285	714x800x285	880x840x330	880x840x330	880x840x330
Weight			kg	39	39	40	53	53	39.5	40	53.5	53.5	53.5
Power supply (V / Phase / Hz)				230 / 1-ph / 50									
Heating	A7W35*2	Nominal	kW	3.0	3.0	5.0	6.0	7.5	3.0	3.0	5.0	6.0	7.5
		COP	5.11	5.11	4.85	5.10	4.85	5.11	4.77	4.95	5.10	4.85	
	A2W35*2	Nominal	kW	3.0	4.0	6.0	7.5	9.0	3.0	4.0	6.0	7.5	9.0
		COP	3.96	3.90	3.62	3.50	3.12	3.67	3.61	3.47	3.31	3.00	
Average climate water outlet 35°C*3		Class	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
		ηs	195%	200%	189%	187%	182%	184%	176%	178%	178%	178%	177%
Average climate water outlet 55°C*3		Class	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
		ηs	133%	135%	136%	135%	134%	126%	126%	128%	130%	129%	
DHW 200L Load Profile*4		Class	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
		ηwh	147%	147%	142%	144%	144%	147%	142%	144%	144%	144%	144%
Max outlet water temperature			°C	60	60	60	60	60	60	60	60	60	60
Cooling	A35W7*2	Nominal	kW	3.5	4.5	5.0	6.7	7.3	3.5	4.5	6.0	6.7	7.3
		EER	3.52	3.31	3.18	3.20	3.00	3.52	3.33	3.28	3.20	3.00	
	A35W18*2	Nominal	kW	3.5	5.6	6.0	6.7	8.1	3.5	5.6	6.0	6.7	8.1
		EER	5.51	4.71	4.65	5.06	4.44	5.51	4.70	5.21	5.06	4.44	
PWL (Heating)*5			dB(A)	57	57	60	60	62	57	58	60	60	62
Max operating current			A	13.5	13.5	13.5	17.3	17.3	13.5	13.5	17.3	17.3	17.3
Breaker size			A	16	16	16	20/16*6	20/16*6	16	16	20/16*6	20/16*6	20/16*6
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	6.35/12.7
	Length	Out-In	m	2-26	2-26	2-26	2-46	2-46	2-26	2-26	2-46	2-46	2-46
	Height	Out-In	m	Max. 26	Max. 26	Max. 26	Max. 30	Max. 30	Max. 26	Max. 26	Max. 30	Max. 30	Max. 30
Guaranteed Operating Range	Heating	°C	-25°C~24°C	-25°C~24°C	-25°C~24°C	-25°C~24°C	-25°C~24°C	-25°C~24°C	-25°C~24°C	-25°C~24°C	-25°C~24°C	-25°C~24°C	-25°C~24°C
	DHW	°C	-25°C~35°C	-25°C~35°C	-25°C~35°C	-25°C~35°C	-25°C~35°C	-25°C~35°C	-25°C~35°C	-25°C~35°C	-25°C~35°C	-25°C~35°C	-25°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	10°C~46°C	10°C~46°C	10°C~46°C	10°C~46°C	10°C~46°C	10°C~46°C

				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%	144%/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	-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	-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. *6 In case of jumper wire cut.

Split type

Small capacity (Under 5kW)*

Medium capacity (6.0kW~14kW)*

Eco Inverter

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

*SUZ rated capacity is at conditions A7W35.

Split Type Specifications

				NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW
				Power Inverter					ZUBADAN				
Model name				PUZ-SWM60VAA	PUZ-SWM80V/YAA	PUZ-SWM100V/YAA	PUZ-SWM120V/YAA	PUZ-SWM140V/YAA	PUZ-SHWM60VAA	PUZ-SHWM80V/YAA	PUZ-SHWM100V/YAA	PUZ-SHWM120V/YAA	PUZ-SHWM140V/YAA
Refrigerant				R32*1									
Dimensions				HxWxD	kg	1040x1050x480							
Weight				104.5	104.5/113.5	105.5/113.5	112/124.5	113.5/124.5	106	106/115	106.5/115	113.5/125.5	114.5/126
Power supply (V / Phase / Hz)				kW VAA: 230 / 1-ph / 50, YAA: 400 / 3-ph / 50									
Heating	A7W35*2	Nominal		5.00	6.00	8.00	10.00	12.00	5.00	6.00	8.00	10.00	12.00
		COP	kW	5.00	5.00	5.00	4.85	4.75	5.05	5.05	5.00	4.85	4.80
	A2W35*2	Nominal		6.00	8.00	10.00	12.00	14.00	6.00	8.00	10.00	12.00	14.00
		COP		3.70	3.65	3.45	3.25	3.24	3.80	3.75	3.50	3.30	3.24
Average climate water outlet 35°C*3			Class	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
			ηs	184%	184%/183%	180%/180%	178%/178%	177%/177%	188%	187%/187%	185%/185%	181%/181%	184%/184%
Average climate water outlet 55°C*3			Class	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
			ηs	128%	130%/130%	134%/133%	132%/132%	135%/135%	131%	133%/133%	138%/137%	138%/137%	142%/142%
DHW 200(L) Load Profile (Average climate)*4			Class	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
			ηwh	134%	134%	134%	134%	123%	134%	134%	134%	134%	123%
Max outlet water temperature °C				60									
Cooling	A35W7*2	Nominal	kW	5.10	7.10	9.00	10.00	12.50	5.10	7.10	9.00	10.00	12.50
		EER		3.40	3.20	2.95	2.85	2.60	3.40	3.20	2.95	2.85	2.60
	A35W18*2	Nominal	kW	6.00	8.00	10.00	12.00	14.00	6.00	8.00	10.00	12.00	14.00
		EER		5.25	4.90	4.55	4.30	3.62	5.25	4.90	4.55	4.30	3.62
PWL (Heating)*5			dB(A)	54	54	58	58	58	54	54	58	58	58
Max operating current			A	13.5	17/8	22/9	28/12	28/12	13.5	19/8	27/9	28/12	35/12
Breaker size			A	16	20/16	25/16	32/16	32/16	16	25/16	30/16	32/16	40/16
Piping	Diameter	Gas	mm	ø12.7 (15.88)*6					ø12.7 (15.88)*6				
		Liquid	mm	6.35					6.35				
	Length	Out-In	m	50	50	50	30*7	30*7	50	50	50	30*7	30*7
		Height	Out-In	m	30					30			
Guaranteed operation range	Cooling		°C	10°C~52°C					10°C~52°C				
	Heating		°C	-25°C ~24°C					-30°C ~24°C				
	DHW		°C	-25°C ~42°C					-30°C ~42°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.

*6 A diameter of 15.88 is necessary for cooling operation. Please refer to our installation manual for details.

*7 Maximum piping length can be up to 50m for heating only operation.

Packaged Type Specifications

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 200(L) Load		Class		A+	A+	A+	A+	A+
Profile (Average climate)*4		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.

Packaged type

Small capacity (Under 5kW)*

Medium capacity (6.0kW~14kW)*



PUZ-WM50



PUZ-HWM140



PUHZ-WM60/85/112

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

Optional Parts

Split type

<Indoor unit>

Parts name	Model name	Cylinder	Hydrobox	Remarks
Wireless remote controller	PAR-WT50R-E	✓	✓	
	PAR-WT60R-E	✓	✓	
Wireless receiver	PAR-WR51R-E	✓	✓	
	PAR-WR61R-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

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	

<Outdoor unit>

Parts name	Model name	R32 Eco Inverter													
		SUZ-SWM30VA	SUZ-SWM40VA	SUZ-SWM40VA2	SUZ-SWM60VA	SUZ-SWM60VA2	SUZ-SWM80VA	SUZ-SWM80VA2	SUZ-SWM100VA	SUZ-SWM100VAH	SUZ-SWM100VAH	SUZ-SWM100VAH	SUZ-SWM100VAH	SUZ-SWM100VAH	SUZ-SWM100VAH
Connector for Drain Hose	PAC-SE60RA-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MAC-061RA-E	✓	-	✓	-	✓	-	✓	-	✓	-	-	-	-	-
	MAC-062RA-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Air discharge Guide	MAC-886SG-E	-	✓	-	✓	-	✓	-	-	-	-	-	-	-	-
	MAC-882SG	✓	-	✓	-	✓	-	-	-	-	-	✓	✓	-	-
	MAC-890SG-E	-	-	-	-	-	-	✓	✓	✓	✓	-	-	✓	-
	PAC-SG59SG-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	PAC-SH96SG-E*1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Air Protection Guide	PAC-SH63AG-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	PAC-SH95AG-E*1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Attachment	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Muffler	MAC-001MF-E	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Joint Pipe and Nut	MAC-001FN-E	-	✓	-	✓	-	✓	-	-	-	-	-	-	-	-

Parts name	Model name	R32 Reversible (Power Inverter)					R32 Reversible (ZUBADAN)				
		PUZ-SWM60VAA	PUZ-SWM80VYAA	PUZ-SWM100VYAA	PUZ-SWM120VYAA	PUZ-SWM140VYAA	PUZ-SHM60VAA	PUZ-SHM80VYAA	PUZ-SHM100VYAA	PUZ-SHM120VYAA	PUZ-SHM140VYAA
Connector for Drain Hose	PAC-SE60RA-E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MAC-061RA-E	-	-	-	-	-	-	-	-	-	-
	MAC-062RA-E	-	-	-	-	-	-	-	-	-	-
Air discharge Guide	MAC-886SG-E	-	-	-	-	-	-	-	-	-	-
	MAC-882SG	-	-	-	-	-	-	-	-	-	-
	MAC-890SG-E	-	-	-	-	-	-	-	-	-	-
	PAC-SG59SG-E	-	-	-	-	-	-	-	-	-	-
	PAC-SH96SG-E*1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Air Protection Guide	PAC-SH63AG-E	-	-	-	-	-	-	-	-	-	-
	PAC-SH95AG-E*1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Attachment	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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Muffler	MAC-001MF-E	-	-	-	-	-	-	-	-	-	-
Joint Pipe and Nut	MAC-001FN-E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

*1 Attachment (PAC-SJ82AT-E) is necessary for the Air guide.

*2 Cannot be used for cold climate.

Parts name	Model name	R32 Heating only (Power Inverter)				R32 Heating only (ZUBADAN)				
		PUD-SWM60VAA	PUD-SWM80VYAA	PUD-SWM100VYAA	PUD-SWM120VYAA	PUD-SHM60VAA	PUD-SHM80VYAA	PUD-SHM100VYAA	PUD-SHM120VYAA	PUD-SHM140VYAA
Connector for Drain Hose	PAC-SE60RA-E	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MAC-061RA-E	-	-	-	-	-	-	-	-	-
Air discharge Guide	MAC-062RA-E	-	-	-	-	-	-	-	-	-
	MAC-886SG-E	-	-	-	-	-	-	-	-	-
	MAC-882SG	-	-	-	-	-	-	-	-	-
	MAC-890SG-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}
Attachment	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	✓	✓	✓	✓	✓	✓	✓	✓	✓
Muffler	MAC-001MF-E	-	-	-	-	-	-	-	-	-
Joint Pipe and Nut	MAC-001FN-E	-	-	-	-	-	-	-	-	-

Parts name	Model name	R410A (Power Inverter)					R410A (ZUBADAN)					R32 (PXZ)	
		PUHZ-SW75VYAA	PUHZ-SW100VYAA	PUHZ-SW120VYHA	PUHZ-SW160YKA	PUHZ-SW200YKA	PUHZ-SHW80VYAA	PUHZ-SHW112VYAA	PUHZ-SHW140YHA	PUHZ-SHW230VYKA2	PXZ-4F75VG	PXZ-5F85VG	
Connector for Drain Hose	PAC-SE60RA-E	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	
	MAC-061RA-E	-	-	-	-	-	-	-	-	-	-	-	
	MAC-062RA-E	-	-	-	-	-	-	-	-	-	✓	✓	
Air discharge Guide	MAC-886SG-E	-	-	-	-	-	-	-	-	-	-	-	
	MAC-882SG	-	-	-	-	-	-	-	-	-	-	-	
	MAC-890SG-E	-	-	-	-	-	-	-	-	-	-	-	
	PAC-SG59SG-E	-	-	✓	-	-	-	-	✓	-	-	-	
	PAC-SH96SG-E*1	✓	✓	✓	✓	✓	✓	✓	-	✓	-	-	
	PAC-SH63AG-E	-	-	✓	-	-	-	-	✓	-	-	-	
Air Protection Guide	PAC-SH95AG-E*1	✓	✓	-	✓	✓	✓	✓	-	✓	-	-	
	PAC-SJ82AT-E	✓	✓	-	-	-	✓	✓	-	✓	-	-	
Attachment	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	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	
Muffler	MAC-001MF-E	-	-	-	-	-	-	-	-	-	✓	✓	
Joint Pipe and Nut	MAC-001FN-E	-	-	-	-	-	-	-	-	-	-	-	

*1 Attachment (PAC-SJ82AT-E) is necessary for the Air guide.

*2 Cannot be used for cold climate.

Packaged type

<Indoor unit>

Parts name	Model name	Cylinder	Hydrobox	Remarks
Wireless remote controller	PAR-WT50R-E	✓	✓	
	AR-WT60R-E	✓	✓	
Wireless receiver	PAR-WR51R-E	✓	✓	
	PAR-WR61R-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	✓	✓	
Z 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	–	✓*	✓*	✓*	–
Attachement	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.

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																			
		eco inverter										Power inverter								ZUBADAN	
		SUZ-SWM40VA	SUZ-SWM60VA	SUZ-SWM80VA	SUZ-SWM100VA	SUZ-SHWM30VAH	SUZ-SWM40VA2(-SC)	SUZ-SHWM40VAH(-SC)	SUZ-SWM60VA2(-SC)	SUZ-SHWM60VAH(-SC)	SUZ-SWM80VA2	SUZ-SWM80VAH2	SUZ-SWM100VA	SUZ-SWM100VAH	PUZ-SWM60VAA	PUZ-SWM80VYAA	PUZ-SWM100VYAA	PUZ-SWM120VYAA	PUZ-SWM140VYAA	PUD-SWM60VAA	PUD-SWM80VYAA
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																				
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																				
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																				
	EHSE-TM9D																				
Reversible Hydrobox	ERSD-MED	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	ERSD-VM2D	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	ERSD-VM6D	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	ERSD-YM9D	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	ERSC-MED																				
	ERSC-VM2D																				
	ERSC-VM6D																				
	ERSC-YM9D																				
	ERSE-YM9ED																				

Packaged indoor/outdoor unit

Packaged indoor/outdoor unit combination		R32				
		Power inverter				ZUBADAN
		PUZ-WM60VHA	PUZ-WM60VAA	PUZ-WM85V/YAA	PUZ-WM112V/YAA	PUZ-HWM1140V/YHA
Heating only Cylinder	EHPT17X-VM2D	●	●	●		
	EHPT17X-VM6D	●	●	●		
	EHPT17X-VM9D	●	●	●		
	EHPT20X-MED	●	●	●	●	
	EHPT20X-VM6D	●	●	●	●	●
	EHPT20X-VM9D	●	●	●	●	●
	EHPT20X-VM9ED	●	●	●	●	●
	EHPT20X-TM9D	●	●	●	●	●
	EHPT20X-MHEDW	●	●	●	●	●
Reversible Cylinder	EHPT30X-MED			●	●	●
	EHPT30X-VM9ED			●	●	●
	ERPT17X-VM2D	●	●	●		
	ERPT20X-VM2D	●	●	●	●	●
Heating only Hydrobox	ERPT20X-MD	●	●	●	●	●
	ERPT20X-VM6D	●	●	●	●	●
	ERPT30X-VM2ED			●	●	●
	ERPT30X-VM6ED			●	●	●
	EHPX-VM2D	●	●	●	●	●
Heating only Hydrobox	EHPX-VM6D	●	●	●	●	●
	EHPX-VM9D	●	●	●	●	●
	EHPX-MED	●	●	●	●	●
	EHPX-VM9ED	●	●	●	●	●
Reversible Hydrobox	ERPX-MD	●	●	●	●	●
	ERPX-VM2D	●	●	●	●	●
	ERPX-VM6D	●	●	●	●	●
	ERPX-VM9D	●	●	●	●	●

●: Combination is available.
▲: Combination is possible but cooling function is still not available.
Blank: Combination is NOT available.

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 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 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 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
SUZ-SWM30VA	EHST17D_****D	A++	A+	4.0	130	147	41	57	A+++	A+	4.0	191	147	41	57
	ERST17D_****D	A++	A+	4.0	133	147	41	57	A+++	A+	4.0	195	147	41	57
	EHST20D_****D	A++	A+	4.0	130	147	41	57	A+++	A+	4.0	191	147	41	57
	ERST20D_****D	A++	A+	4.0	133	147	41	57	A+++	A+	4.0	195	147	41	57
	EHST30D_****D	A++	A+	4.0	130	130	41	57	A+++	A+	4.0	191	130	41	57
	ERST30D_****D	A++	A+	4.0	133	130	41	57	A+++	A+	4.0	195	130	41	57
	EHSD-****D	A++	-	4.0	130	-	41	57	A+++	-	4.0	191	-	41	57
	ERSD-****D	A++	-	4.0	133	-	41	57	A+++	-	4.0	195	-	41	57
SUZ-SHWM30VAH	EHST17D_****D	A+	A+	4.0	124	147	41	57	A+++	A+	4.0	180	147	41	57
	ERST17D_****D	A++	A+	4.0	126	147	41	57	A+++	A+	4.0	184	147	41	57
	EHST20D_****D	A+	A+	4.0	124	147	41	57	A+++	A+	4.0	180	147	41	57
	ERST20D_****D	A++	A+	4.0	126	147	41	57	A+++	A+	4.0	184	147	41	57
	EHST30D_****D	A+	A+	4.0	124	130	41	57	A+++	A+	4.0	180	130	41	57
	ERST30D_****D	A++	A+	4.0	126	130	41	57	A+++	A+	4.0	184	130	41	57
	EHSD-****D	A+	-	4.0	124	-	41	57	A+++	-	4.0	180	-	41	57
	ERSD-****D	A++	-	4.0	126	-	41	57	A+++	-	4.0	184	-	41	57
SUZ-SWM40VA2(-SC)	EHST17D_****D	A++	A+	5.0	133	147	41	57	A+++	A+	5.0	196	147	41	57
	ERST17D_****D	A++	A+	5.0	135	147	41	57	A+++	A+	5.0	200	147	41	57
	EHST20D_****D	A++	A+	5.0	133	147	41	57	A+++	A+	5.0	196	147	41	57
	ERST20D_****D	A++	A+	5.0	135	147	41	57	A+++	A+	5.0	200	147	41	57
	EHST30D_****D	A++	A+	5.0	133	130	41	57	A+++	A+	5.0	196	130	41	57
	ERST30D_****D	A++	A+	5.0	135	130	41	57	A+++	A+	5.0	200	130	41	57
	EHSD-****D	A++	-	5.0	133	-	41	57	A+++	-	5.0	196	-	41	57
	ERSD-****D	A++	-	5.0	135	-	41	57	A+++	-	5.0	200	-	41	57
SUZ-SHWM40VAH(-SC)	EHST17D_****D	A+	A+	5.0	124	139	41	58	A++	A+	5.0	172	139	41	58
	ERST17D_****D	A++	A+	5.0	126	139	41	58	A+++	A+	5.0	176	139	41	58
	EHST20D_****D	A+	A+	5.0	124	142	41	58	A++	A+	5.0	172	142	41	58
	ERST20D_****D	A++	A+	5.0	126	142	41	58	A+++	A+	5.0	176	142	41	58
	EHST30D_****D	A+	A+	5.0	124	128	41	58	A++	A+	5.0	172	128	41	58
	ERST30D_****D	A++	A+	5.0	126	128	41	58	A+++	A+	5.0	176	128	41	58
	EHSD-****D	A+	-	5.0	124	-	41	58	A++	-	5.0	172	-	41	58
	ERSD-****D	A++	-	5.0	126	-	41	58	A+++	-	5.0	176	-	41	58
SUZ-SWM60VA2(-SC)	EHST17D_****D	A++	A+	6.0	134	139	41	60	A+++	A+	6.0	185	139	41	60
	ERST17D_****D	A++	A+	6.0	136	139	41	60	A+++	A+	6.0	189	139	41	60
	EHST20D_****D	A++	A+	6.0	134	142	41	60	A+++	A+	6.0	185	142	41	60
	ERST20D_****D	A++	A+	6.0	136	142	41	60	A+++	A+	6.0	189	142	41	60
	EHST30D_****D	A++	A+	6.0	134	128	41	60	A+++	A+	6.0	185	128	41	60
	ERST30D_****D	A++	A+	6.0	136	128	41	60	A+++	A+	6.0	189	128	41	60
	EHSD-****D	A++	-	6.0	134	-	41	60	A+++	-	6.0	185	-	41	60
	ERSD-****D	A++	-	6.0	136	-	41	60	A+++	-	6.0	189	-	41	60
SUZ-SHWM60VAH(-SC)	EHST17D_****D	A++	A+	6.0	126	145	41	60	A+++	A+	6.0	175	145	41	60
	ERST17D_****D	A++	A+	6.0	128	145	41	60	A+++	A+	6.0	178	145	41	60
	EHST20D_****D	A++	A+	6.0	126	144	41	60	A+++	A+	6.0	175	144	41	60
	ERST20D_****D	A++	A+	6.0	128	144	41	60	A+++	A+	6.0	178	144	41	60
	EHST30D_****D	A++	A+	6.0	126	139	41	60	A+++	A+	6.0	175	139	41	60
	ERST30D_****D	A++	A+	6.0	128	139	41	60	A+++	A+	6.0	178	139	41	60
	EHSD-****D	A++	-	6.0	126	-	41	60	A+++	-	6.0	175	-	41	60
	ERSD-****D	A++	-	6.0	128	-	41	60	A+++	-	6.0	178	-	41	60

Note: E**T17/20*-****D use "Load profile L"
E**T30*-****D use "Load profile XL"

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 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
SUZ-SWM80VA2	EHST17D_****D	A++	A+	7.0	133	145	41	60	A+++	A+	7.0	183	145	41	60
	ERST17D_****D	A++	A+	7.0	135	145	41	60	A+++	A+	7.0	187	145	41	60
	EHST20D_****D	A++	A+	7.0	133	144	41	60	A+++	A+	7.0	183	144	41	60
	ERST20D_****D	A++	A+	7.0	135	144	41	60	A+++	A+	7.0	187	144	41	60
	EHST30D_****D	A++	A+	7.0	133	139	41	60	A+++	A+	7.0	183	139	41	60
	ERST30D_****D	A++	A+	7.0	135	139	41	60	A+++	A+	7.0	187	139	41	60
	EHSD-****D	A++	-	7.0	133	-	41	60	A+++	-	7.0	183	-	41	60
	ERSD-****D	A++	-	7.0	135	-	41	60	A+++	-	7.0	187	-	41	60
SUZ-SWM80VAH2	EHST17D_****D	A++	A+	7.0	128	145	41	60	A+++	A+	7.0	175	145	41	60
	ERST17D_****D	A++	A+	7.0	130	145	41	60	A+++	A+	7.0	178	145	41	60
	EHST20D_****D	A++	A+	7.0	128	144	41	60	A+++	A+	7.0	175	144	41	60
	ERST20D_****D	A++	A+	7.0	130	144	41	60	A+++	A+	7.0	178	144	41	60
	EHST30D_****D	A++	A+	7.0	128	139	41	60	A+++	A+	7.0	175	139	41	60
	ERST30D_****D	A++	A+	7.0	130	139	41	60	A+++	A+	7.0	178	139	41	60
	EHSD-****D	A++	-	7.0	128	-	41	60	A+++	-	7.0	175	-	41	60
	ERSD-****D	A++	-	7.0	130	-	41	60	A+++	-	7.0	178	-	41	60
SUZ-SWM100VA	EHST17D_****D	A++	A+	8.0	133	145	41	62	A+++	A+	8.0	179	145	41	62
	ERST17D_****D	A++	A+	8.0	134	145	41	62	A+++	A+	8.0	182	145	41	62
	EHST20D_****D	A++	A+	8.0	133	144	41	62	A+++	A+	8.0	179	144	41	62
	ERST20D_****D	A++	A+	8.0	134	144	41	62	A+++	A+	8.0	182	144	41	62
	EHST30D_****D	A++	A+	8.0	133	139	41	62	A+++	A+	8.0	179	139	41	62
	ERST30D_****D	A++	A+	8.0	134	139	41	62	A+++	A+	8.0	182	139	41	62
	EHSD-****D	A++	-	8.0	133	-	41	62	A+++	-	8.0	179	-	41	62
	ERSD-****D	A++	-	8.0	134	-	41	62	A+++	-	8.0	182	-	41	62
SUZ-SWM100VAH	EHST17D_****D	A++	A+	8.0	127	145	41	62	A++	A+	8.0	174	145	41	62
	ERST17D_****D	A++	A+	8.0	129	145	41	62	A+++	A+	8.0	177	145	41	62
	EHST20D_****D	A++	A+	8.0	127	144	41	62	A++	A+	8.0	174	144	41	62
	ERST20D_****D	A++	A+	8.0	129	144	41	62	A+++	A+	8.0	177	144	41	62
	EHST30D_****D	A++	A+	8.0	127	139	41	62	A++	A+	8.0	174	139	41	62
	ERST30D_****D	A++	A+	8.0	129	139	41	62	A+++	A+	8.0	177	139	41	62
	EHSD-****D	A++	-	8.0	127	-	41	62	A++	-	8.0	174	-	41	62
	ERSD-****D	A++	-	8.0	129	-	41	62	A+++	-	8.0	177	-	41	62
PUZ-SWM60VAA	EHST17D_****D	A++	A+	6.0	126	134	41	54	A+++	A+	6.0	181	134	41	54
	ERST17D_****D	A++	A+	6.0	128	134	41	54	A+++	A+	6.0	184	134	41	54
	EHST20D_****D	A++	A+	6.0	126	134	41	54	A+++	A+	6.0	181	134	41	54
	ERST20D_****D	A++	A+	6.0	128	134	41	54	A+++	A+	6.0	184	134	41	54
	EHST30D_****D	A++	A+	6.0	126	133	41	54	A+++	A+	6.0	181	133	41	54
	ERST30D_****D	A++	A+	6.0	128	133	41	54	A+++	A+	6.0	184	133	41	54
	EHSD-****D	A++	-	6.0	126	-	41	54	A+++	-	6.0	181	-	41	54
	ERSD-****D	A++	-	6.0	128	-	41	54	A+++	-	6.0	184	-	41	54
PUZ-SWM80VAA	EHST17D_****D	A++	A+	8.0	129	134	41	54	A+++	A+	8.0	181	134	41	54
	ERST17D_****D	A++	A+	8.0	130	134	41	54	A+++	A+	8.0	184	134	41	54
	EHST20D_****D	A++	A+	8.0	129	134	41	54	A+++	A+	8.0	181	134	41	54
	ERST20D_****D	A++	A+	8.0	130	134	41	54	A+++	A+	8.0	184	134	41	54
	EHST30D_****D	A++	A+	8.0	129	133	41	54	A+++	A+	8.0	181	133	41	54
	ERST30D_****D	A++	A+	8.0	130	133	41	54	A+++	A+	8.0	184	133	41	54
	EHSD-****D	A++	-	8.0	129	-	41	54	A+++	-	8.0	181	-	41	54
	ERSD-****D	A++	-	8.0	130	-	41	54	A+++	-	8.0	184	-	41	54

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	%	%					kW	%	%		
PUZ-SWM80YAA	EHST17D-****D	A++	A+	8.0	128	134	41	54	A+++	A+	8.0	179	134	41	54
	ERST17D-****D	A++	A+	8.0	130	134	41	54	A+++	A+	8.0	183	134	41	54
	EHST20D-****D	A++	A+	8.0	128	134	41	54	A+++	A+	8.0	179	134	41	54
	ERST20D-****D	A++	A+	8.0	130	134	41	54	A+++	A+	8.0	183	134	41	54
	EHST30D-****D	A++	A+	8.0	128	133	41	54	A+++	A+	8.0	179	133	41	54
	ERST30D-****D	A++	A+	8.0	130	133	41	54	A+++	A+	8.0	183	133	41	54
	EHSD-****D	A++	-	8.0	128	-	41	54	A+++	-	8.0	179	-	41	54
	ERSD-****D	A++	-	8.0	130	-	41	54	A+++	-	8.0	183	-	41	54
PUZ-SWM100VAA	EHST20D-****D	A++	A+	10.0	132	134	41	58	A+++	A+	10.0	178	134	41	58
	ERST20D-****D	A++	A+	10.0	134	134	41	58	A+++	A+	10.0	180	134	41	58
	EHST30D-****D	A++	A+	10.0	132	133	41	58	A+++	A+	10.0	178	133	41	58
	ERST30D-****D	A++	A+	10.0	134	133	41	58	A+++	A+	10.0	180	133	41	58
	EHSD-****D	A++	-	10.0	132	-	41	58	A+++	-	10.0	178	-	41	58
	ERSD-****D	A++	-	10.0	134	-	41	58	A+++	-	10.0	180	-	41	58
PUZ-SWM100YAA	EHST20D-****D	A++	A+	10.0	132	134	41	58	A+++	A+	10.0	177	134	41	58
	ERST20D-****D	A++	A+	10.0	133	134	41	58	A+++	A+	10.0	180	134	41	58
	EHST30D-****D	A++	A+	10.0	132	133	41	58	A+++	A+	10.0	177	133	41	58
	ERST30D-****D	A++	A+	10.0	133	133	41	58	A+++	A+	10.0	180	133	41	58
	EHSD-****D	A++	-	10.0	132	-	41	58	A+++	-	10.0	177	-	41	58
	ERSD-****D	A++	-	10.0	133	-	41	58	A+++	-	10.0	178	-	41	58
PUZ-SWM120VAA	EHST20D-****D	A++	A+	12.0	131	134	41	58	A+++	A+	12.0	177	134	41	58
	ERST20D-****D	A++	A+	12.0	132	134	41	58	A+++	A+	12.0	178	134	41	58
	EHST30D-****D	A++	A+	12.0	131	133	41	58	A+++	A+	12.0	177	133	41	58
	ERST30D-****D	A++	A+	12.0	132	133	41	58	A+++	A+	12.0	178	133	41	58
	EHSD-****D	A++	-	12.0	131	-	41	58	A+++	-	12.0	177	-	41	58
	ERSD-****D	A++	-	12.0	132	-	41	58	A+++	-	12.0	178	-	41	58
PUZ-SWM120YAA	EHST20D-****D	A++	A+	12.0	131	134	41	58	A+++	A+	12.0	176	134	41	58
	ERST20D-****D	A++	A+	12.0	132	134	41	58	A+++	A+	12.0	178	134	41	58
	EHST30D-****D	A++	A+	12.0	131	133	41	58	A+++	A+	12.0	176	133	41	58
	ERST30D-****D	A++	A+	12.0	132	133	41	58	A+++	A+	12.0	178	133	41	58
	EHSD-****D	A++	-	12.0	131	-	41	58	A+++	-	12.0	176	-	41	58
	ERSD-****D	A++	-	12.0	132	-	41	58	A+++	-	12.0	178	-	41	58
PUZ-SWM140VAA	EHST20D-****D	A++	A+	14.0	134	123	41	58	A+++	A+	14.0	175	123	41	58
	ERST20D-****D	A++	A+	14.0	135	123	41	58	A+++	A+	14.0	177	123	41	58
	EHST30D-****D	A++	A	14.0	134	114	41	58	A+++	A	14.0	175	114	41	58
	ERST30D-****D	A++	A	14.0	135	114	41	58	A+++	A	14.0	177	114	41	58
	EHSD-****D	A++	-	14.0	134	-	41	58	A+++	-	14.0	175	-	41	58
	ERSD-****D	A++	-	14.0	135	-	41	58	A+++	-	14.0	177	-	41	58
PUZ-SWM140YAA	EHST20D-****D	A++	A+	14.0	134	123	41	58	A+++	A+	14.0	175	123	41	58
	ERST20D-****D	A++	A+	14.0	135	123	41	58	A+++	A+	14.0	177	123	41	58
	EHST30D-****D	A++	A	14.0	134	114	41	58	A+++	A	14.0	175	114	41	58
	ERST30D-****D	A++	A	14.0	135	114	41	58	A+++	A	14.0	177	114	41	58
	EHSD-****D	A++	-	14.0	134	-	41	58	A+++	-	14.0	175	-	41	58
	ERSD-****D	A++	-	14.0	135	-	41	58	A+++	-	14.0	177	-	41	58

Note: E**T17/20*-****D use "Load profile L"
E**T30*-****D use "Load profile XL"

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 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
PUZ-SHWM60VAA	EHST17D_****D	A++	A+	6.0	129	134	41	54	A+++	A+	6.0	184	134	41	54
	ERST17D_****D	A++	A+	6.0	131	134	41	54	A+++	A+	6.0	188	134	41	54
	EHST20D_****D	A++	A+	6.0	129	134	41	54	A+++	A+	6.0	184	134	41	54
	ERST20D_****D	A++	A+	6.0	131	134	41	54	A+++	A+	6.0	188	134	41	54
	EHST30D_****D	A++	A+	6.0	129	133	41	54	A+++	A+	6.0	184	133	41	54
	ERST30D_****D	A++	A+	6.0	131	133	41	54	A+++	A+	6.0	188	133	41	54
	EHSD-****D	A++	-	6.0	129	-	41	54	A+++	-	6.0	184	-	41	54
	ERSD-****D	A++	-	6.0	131	-	41	54	A+++	-	6.0	188	-	41	54
PUZ-SHWM80VAA	EHST17D_****D	A++	A+	8.0	132	134	41	54	A+++	A+	8.0	184	134	41	54
	ERST17D_****D	A++	A+	8.0	133	134	41	54	A+++	A+	8.0	187	134	41	54
	EHST20D_****D	A++	A+	8.0	132	134	41	54	A+++	A+	8.0	184	134	41	54
	ERST20D_****D	A++	A+	8.0	133	134	41	54	A+++	A+	8.0	187	134	41	54
	EHST30D_****D	A++	A+	8.0	132	133	41	54	A+++	A+	8.0	184	133	41	54
	ERST30D_****D	A++	A+	8.0	133	133	41	54	A+++	A+	8.0	187	133	41	54
	EHSD-****D	A++	-	8.0	132	-	41	54	A+++	-	8.0	184	-	41	54
	ERSD-****D	A++	-	8.0	133	-	41	54	A+++	-	8.0	187	-	41	54
PUZ-SHWM80YAA	EHST17D_****D	A++	A+	8.0	131	134	41	54	A+++	A+	8.0	182	134	41	54
	ERST17D_****D	A++	A+	8.0	133	134	41	54	A+++	A+	8.0	187	134	41	54
	EHST20D_****D	A++	A+	8.0	131	134	41	54	A+++	A+	8.0	182	134	41	54
	ERST20D_****D	A++	A+	8.0	133	134	41	54	A+++	A+	8.0	187	134	41	54
	EHST30D_****D	A++	A+	8.0	131	133	41	54	A+++	A+	8.0	182	133	41	54
	ERST30D_****D	A++	A+	8.0	133	133	41	54	A+++	A+	8.0	187	133	41	54
	EHSD-****D	A++	-	8.0	131	-	41	54	A+++	-	8.0	182	-	41	54
	ERSD-****D	A++	-	8.0	133	-	41	54	A+++	-	8.0	187	-	41	54
PUZ-SHWM100VAA	EHST20D_****D	A++	A+	10.0	136	134	41	58	A+++	A+	10.0	183	134	41	58
	ERST20D_****D	A++	A+	10.0	138	134	41	58	A+++	A+	10.0	185	134	41	58
	EHST30D_****D	A++	A+	10.0	136	133	41	58	A+++	A+	10.0	183	133	41	58
	ERST30D_****D	A++	A+	10.0	138	133	41	58	A+++	A+	10.0	185	133	41	58
	EHSD-****D	A++	-	10.0	136	-	41	58	A+++	-	10.0	183	-	41	58
	ERSD-****D	A++	-	10.0	138	-	41	58	A+++	-	10.0	185	-	41	58
PUZ-SHWM100YAA	EHST20D_****D	A++	A+	10.0	135	134	41	58	A+++	A+	10.0	181	134	41	58
	ERST20D_****D	A++	A+	10.0	137	134	41	58	A+++	A+	10.0	185	134	41	58
	EHST30D_****D	A++	A+	10.0	135	133	41	58	A+++	A+	10.0	181	133	41	58
	ERST30D_****D	A++	A+	10.0	137	133	41	58	A+++	A+	10.0	185	133	41	58
	EHSD-****D	A++	-	10.0	135	-	41	58	A+++	-	10.0	181	-	41	58
	ERSD-****D	A++	-	10.0	137	-	41	58	A+++	-	10.0	185	-	41	58
PUZ-SHWM120VAA	EHST20D_****D	A++	A+	12.0	136	134	41	58	A+++	A+	12.0	179	134	41	58
	ERST20D_****D	A++	A+	12.0	138	134	41	58	A+++	A+	12.0	181	134	41	58
	EHST30D_****D	A++	A+	12.0	136	133	41	58	A+++	A+	12.0	179	133	41	58
	ERST30D_****D	A++	A+	12.0	138	133	41	58	A+++	A+	12.0	181	133	41	58
	EHSD-****D	A++	-	12.0	136	-	41	58	A+++	-	12.0	179	-	41	58
	ERSD-****D	A++	-	12.0	138	-	41	58	A+++	-	12.0	181	-	41	58
PUZ-SHWM120YAA	EHST20D_****D	A++	A+	12.0	136	134	41	58	A+++	A+	12.0	178	134	41	58
	ERST20D_****D	A++	A+	12.0	137	134	41	58	A+++	A+	12.0	181	134	41	58
	EHST30D_****D	A++	A+	12.0	136	133	41	58	A+++	A+	12.0	178	133	41	58
	ERST30D_****D	A++	A+	12.0	137	133	41	58	A+++	A+	12.0	181	133	41	58
	EHSD-****D	A++	-	12.0	136	-	41	58	A+++	-	12.0	178	-	41	58
	ERSD-****D	A++	-	12.0	137	-	41	58	A+++	-	12.0	181	-	41	58

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
PUZ-SHWM140VAA	EHST20D-****D	A++	A+	14.0	141	123	41	58	A+++	A+	14.0	183	123	41	58
	ERST20D-****D	A++	A+	14.0	142	123	41	58	A+++	A+	14.0	184	123	41	58
	EHST30D-****D	A++	A	14.0	141	114	41	58	A+++	A	14.0	183	114	41	58
	ERST30D-****D	A++	A	14.0	142	114	41	58	A+++	A	14.0	184	114	41	58
	EHSD-****D	A++	-	14.0	141	-	41	58	A+++	-	14.0	183	-	41	58
	ERSD-****D	A++	-	14.0	142	-	41	58	A+++	-	14.0	184	-	41	58
PUZ-SHWM140YAA	EHST20D-****D	A++	A+	14.0	141	123	41	58	A+++	A+	14.0	182	123	41	58
	ERST20D-****D	A++	A+	14.0	142	123	41	58	A+++	A+	14.0	184	123	41	58
	EHST30D-****D	A++	A	14.0	141	114	41	58	A+++	A	14.0	182	114	41	58
	ERST30D-****D	A++	A	14.0	142	114	41	58	A+++	A	14.0	184	114	41	58
	EHSD-****D	A++	-	14.0	141	-	41	58	A+++	-	14.0	182	-	41	58
	ERSD-****D	A++	-	14.0	142	-	41	58	A+++	-	14.0	184	-	41	58
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
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

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 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
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/YHA(-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
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-VM50VHA(-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-VM60VAA(-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

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
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
PXZ-4F75VG	EHST17D-****D	A+	A+	6.0	113	117	41	67	A++	A+	6.0	154	117	41	67
	ERST17D-****D	A+	A+	6.0	113	117	41	67	A++	A+	6.0	154	117	41	67
	EHST20D-****D	A+	A+	6.0	113	124	41	67	A++	A+	6.0	154	124	41	67
	ERST20D-****D	A+	A+	6.0	113	124	41	67	A++	A+	6.0	154	124	41	67
	EHST30D-****D	A+	A	6.0	113	118	41	67	A++	A	6.0	154	118	41	67
	ERST30D-****D	A+	A	6.0	113	118	41	67	A++	A	6.0	154	118	41	67
	EHSD-****D	A+	-	6.0	113	-	41	67	A++	-	6.0	154	-	41	67
	ERSD-****D	A+	-	6.0	113	-	41	67	A++	-	6.0	154	-	41	67
PXZ-5F85VG	EHST17D-****D	A+	A+	7.0	111	121	41	64	A++	A+	7.0	157	121	41	64
	ERST17D-****D	A+	A+	7.0	111	121	41	64	A++	A+	7.0	157	121	41	64
	EHST20D-****D	A+	A+	7.0	111	123	41	64	A++	A+	7.0	157	123	41	64
	ERST20D-****D	A+	A+	7.0	111	123	41	64	A++	A+	7.0	157	123	41	64
	EHST30D-****D	A+	A	7.0	111	110	41	64	A++	A	7.0	157	110	41	64
	ERST30D-****D	A+	A	7.0	111	110	41	64	A++	A	7.0	157	110	41	64
	EHSD-****D	A+	-	7.0	111	-	41	64	A++	-	7.0	157	-	41	64
	ERSD-****D	A+	-	7.0	111	-	41	64	A++	-	7.0	157	-	41	64

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.

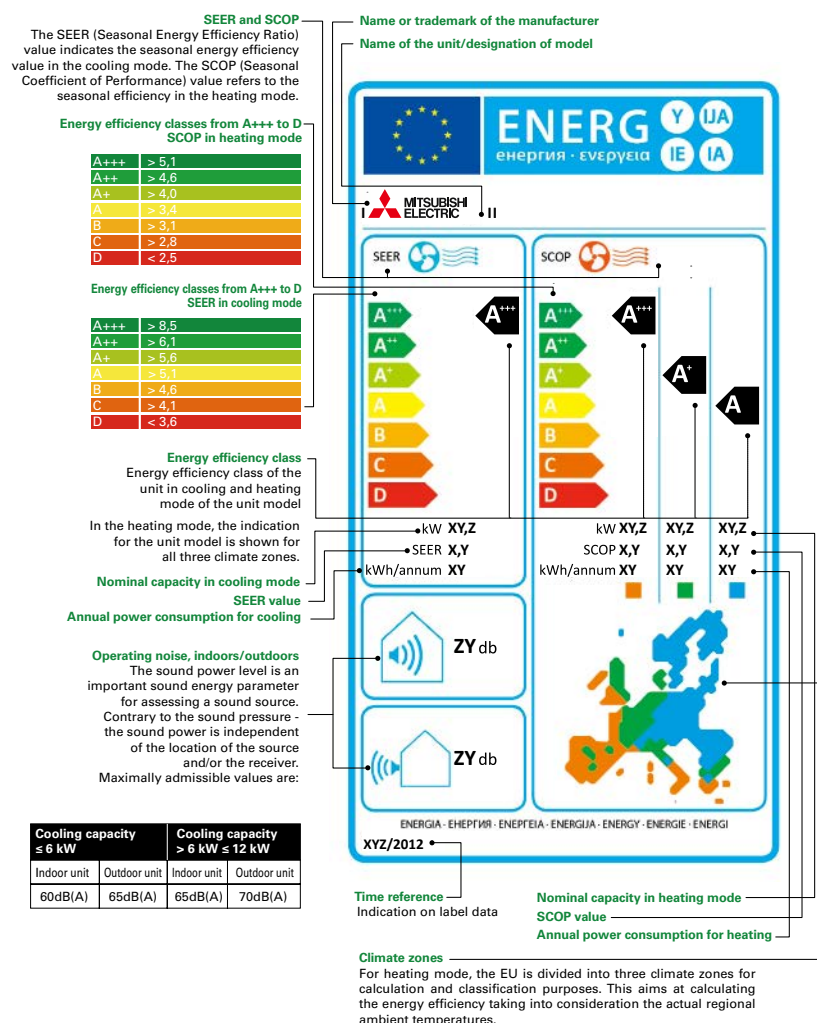
NEW ENERGY LABEL AND MEASUREMENTS

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.

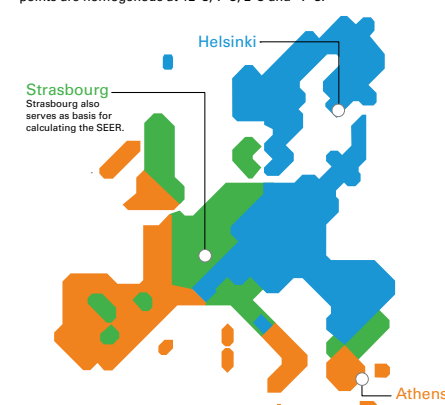
Specifically, for cooling mode, air conditioning systems must achieve at least class B. For heating mode, air conditioning systems must achieve at least a SCOP value of 3.8.

■ 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		
	DB	WB	DB
–	–	–	20°C
100%	2°C	1°C	20°C
64%	7°C	6°C	20°C
29%	12°C	11°C	20°C

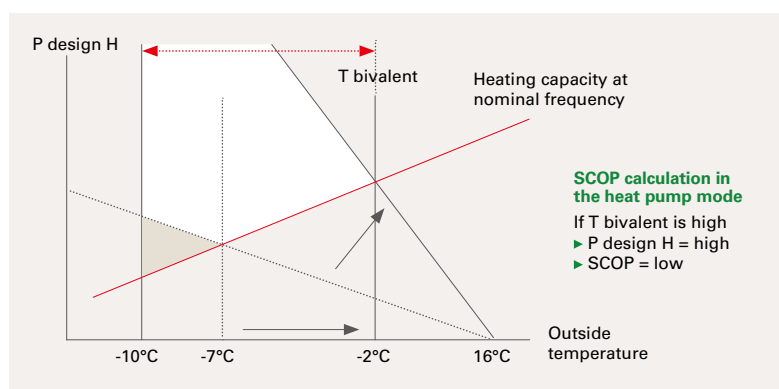
Moderate (Strasbourg)			
Partial load	Temperature conditions		Indoors
	Outdoors		
	DB	WB	DB
88%	–7°C	–8°C	20°C
54%	2°C	1°C	20°C
35%	7°C	6°C	20°C
15%	12°C	11°C	20°C

Cold (Helsinki)			
Partial load	Temperature conditions		Indoors
	Outdoors		
	DB	WB	DB
61%	–7°C	–8°C	20°C
37%	2°C	1°C	20°C
24%	7°C	6°C	20°C
11%	12°C	11°C	20°C

SEER/SCOP

Air conditioning systems were previously assessed using the energy-efficiency rating (EER), which evaluated efficiency in cooling mode, and the coefficient of performance (COP), which defined the efficiency, or the ratio of consumed and output power, in heating mode. Under this system, assessments were not truly reflective of performance as they were based on a single measurement point, which led to manufacturers optimising products accordingly in order to achieve higher efficiency ratings. SEER and SCOP address this problem by including seasonal variation in the ratings via use of realistic measurement points. For cooling mode, measurements at outside temperatures of 20, 25, 30 and 35°C are incorporated and weighted in accordance with climate data for Strasbourg, which is used as a single reference point for the whole EU. For instance, for partial-load operation, which represents more than 90% of operation, there is a correspondingly high weighting for the efficiency classification. For heating mode, a comprehensive temperature profile for the whole EU was not possible, so the EU has been divided into three climate zones, north, central and south, and load profiles created. The same measurement points, at outside temperatures of 12, 7, 2 and -7°C, are used for all three zones.

■ SCOP Calculation



Technical Terms with Respect to the SCOP

P design H: Corresponds to a heating load of 100%. The value depends on the selected bivalence point.

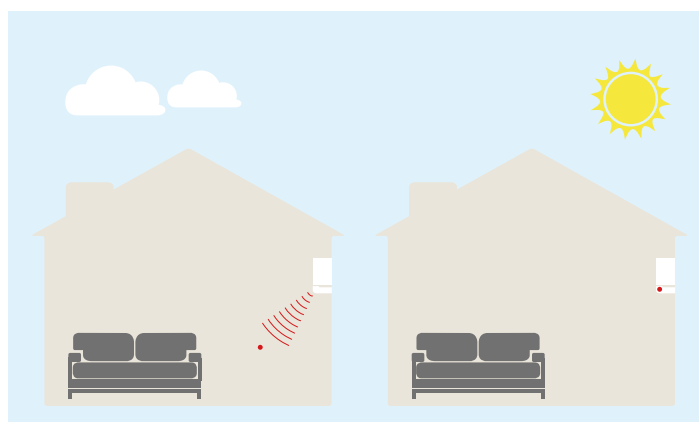
T design: Outside temperature which determines the P design H point. The latter is determined from the area conditions.

T bivalent: Corresponds to the lowest temperature at which full heating performance can be achieved with the heat pump (without additional heating). This point can be freely selected within the prescribed temperature ranges (T design - T bivalent).

SOUND PRESSURE LEVEL

Consumers will also receive more information on the noise levels emitted by split-system air conditioners to help them make their purchasing decision. Specifically, the sound power level of indoor and outdoor units is to be indicated in decibels as an objective parameter. Knowing the sound power makes it possible to calculate sound emissions while considering distance and radiation characteristics, which is beneficial because it allows the noise levels of different air conditioning systems to be compared regardless of the usage location and how the sound pressure is measured. This is an improvement on sound pressure values which are usually measured at an approximate distance of 1m where all modern split-system air conditioning systems tend to be very quiet at an average of 21 decibels.

■ Sound Pressure vs Sound Power Level



Sound pressure level dB(A)

The sound pressure level is a sound field parameter which indicates the perceived operating noise of an indoor unit within a certain distance.

Sound power level dB(A)

The sound power is an acoustic parameter which describes the source strength of a sound generator and is thus independent of the distance to the receiver location.



INVERTER 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.

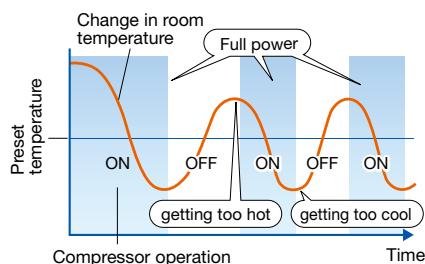
TRUE COMFORT

Below is a simple comparison of air conditioner operation control with and without an inverter.

■ Inverter operation comparison

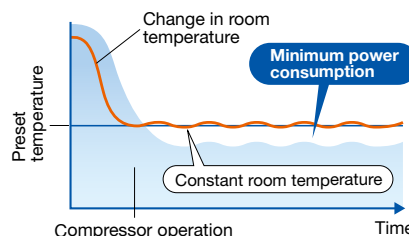
Non-inverter air conditioner

On/Off operation of compressor keeps room temperature



Inverter air conditioner

Optimum control of frequency keeps preset room temperature



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.



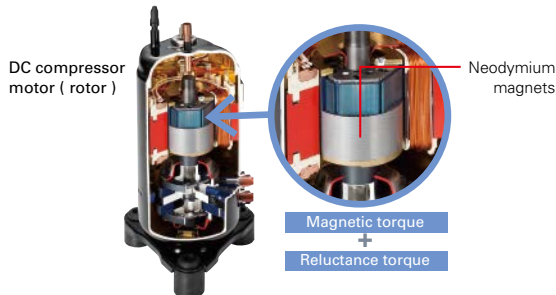
Magnetic Flux Vector Sine Wave Drive

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° conduction) to achieve higher efficiency by raising the motor winding utilisation ratio and reducing energy loss.



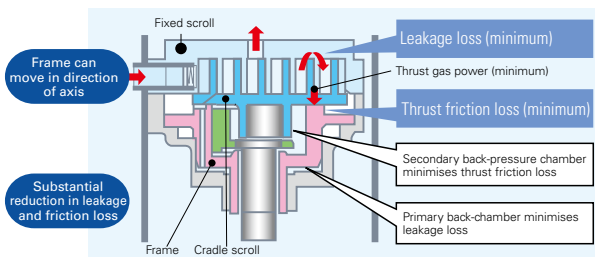
Reluctance DC Rotary Compressor

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.

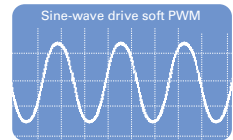


Vector-Wave Eco Inverter

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.

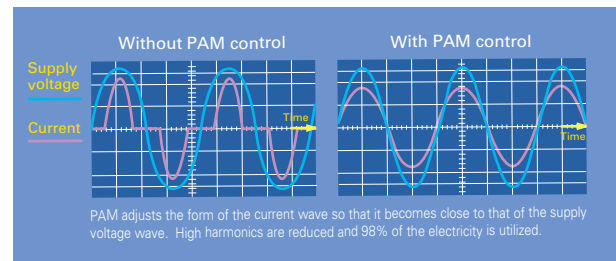
Smooth wave pattern

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

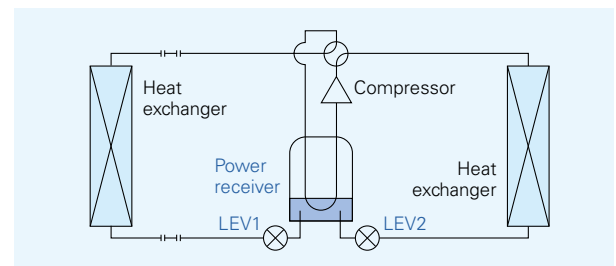
Power increased
Efficient voltage increase realises increased power

Limited power
Insufficient power when needed



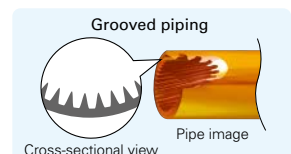
Power Receiver and Twin LEV Control

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.

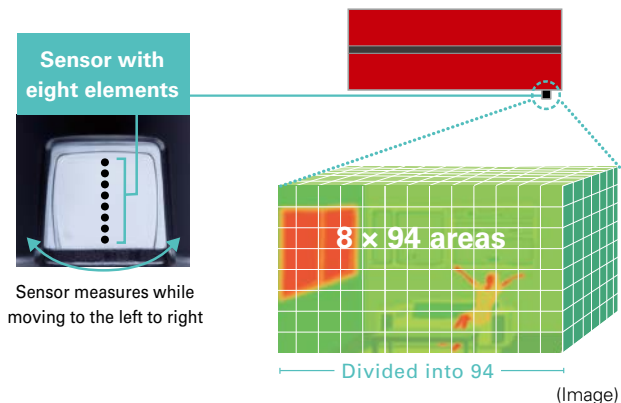


COMFORT

3D i-see Sensor

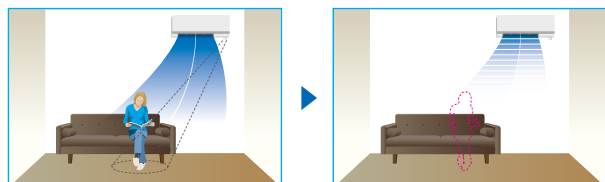
3D i-see Sensor for M SERIES

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

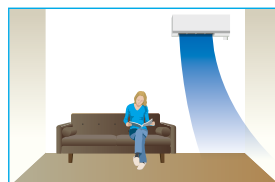
The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.



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.

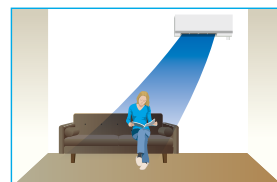
Indirect Airflow

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.



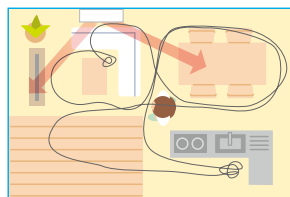
Direct Airflow

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



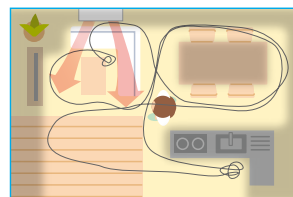
Even Airflow *LN Series only

Normal swing mode



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

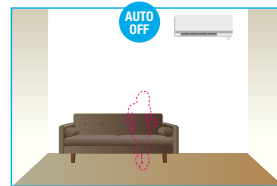
Even airflow mode



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

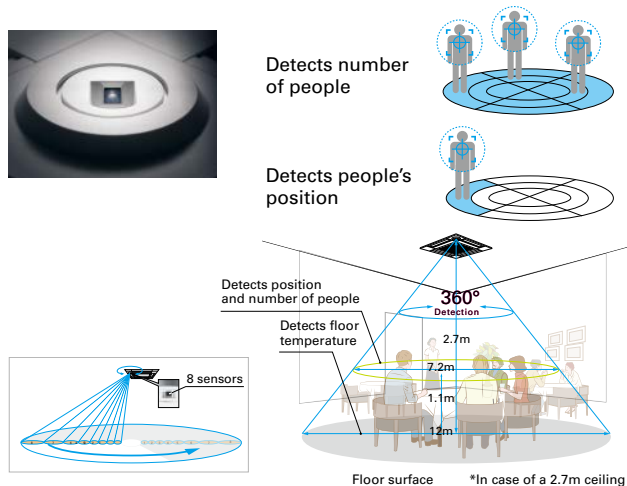
The 3D i-see Sensor detects the number of people in the room and adjusts the power accordingly. This makes automatic power-saving operation possible in places where the number of people changes frequently. Additionally, when the area is continuously unoccupied, the system switches to a more enhanced 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



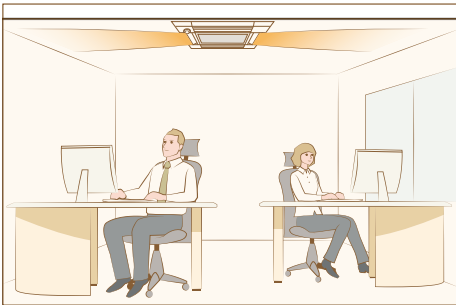
Auto-Off

*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.

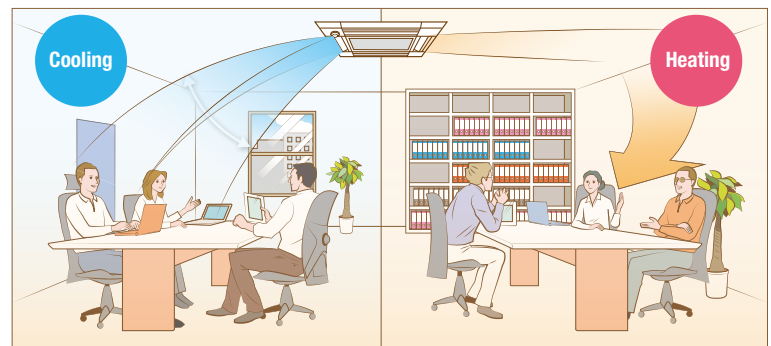
Seasonal airflow*

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.

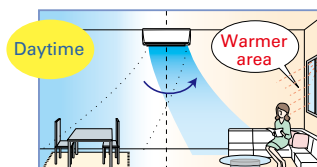


*PAR-41MAA is required for each setting.

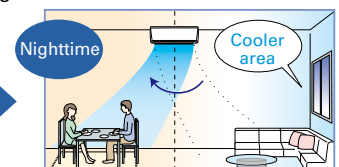


Area Temperature Monitor

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



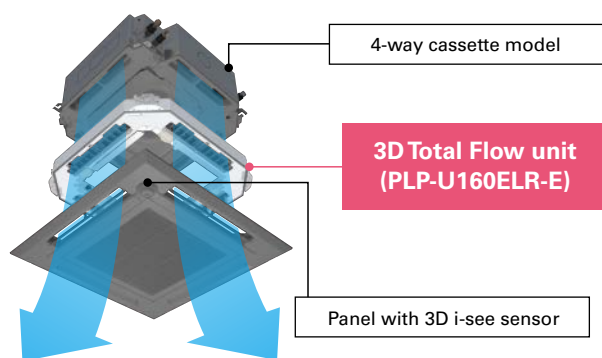
COMFORT

3D TOTAL FLOW

3D Total Flow*

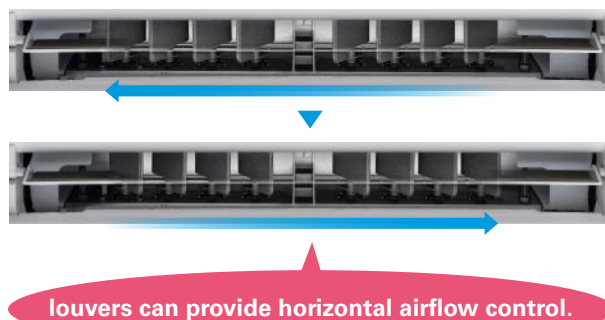
3D Total Flow is an innovative function. Our original 3D i-see sensor detects the temperature of the floor, and then the newly installed 3D Total Flow unit automatically controls the airflow in the left/right directions in a smart manner.

*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)

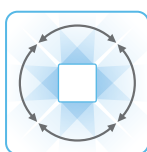


Horizontal louver (3D Total Flow)

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.

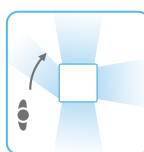


Fine-tuned sensing & airflow direction control (3D Total Flow)



Swinging

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

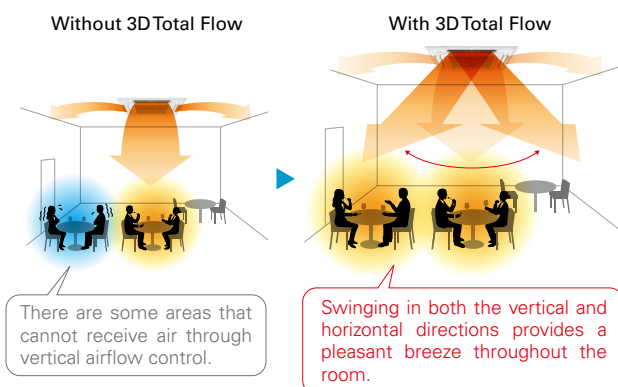


Indirect mode

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.

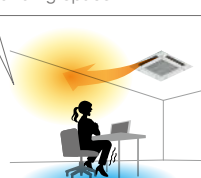


Prevents direct airflow and keeps you comfortable

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.

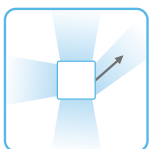


With 3D Total Flow

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

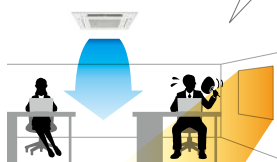
The system can detect spaces with uneven temperatures and target them by sending air even if they are in a diagonal direction.

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.

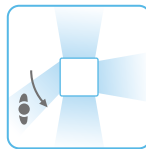
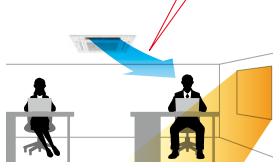
Without 3DTotal Flow

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



With 3DTotal Flow

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



Direct mode

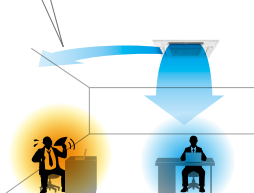
When set to "Direct" mode, the system detects the position and diverts airflow towards wherever they are located.

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.

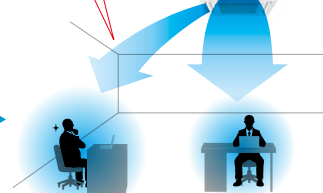
Without 3DTotal Flow

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



With 3DTotal 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

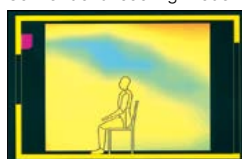
Econo Cool Mode

A comfortable room environment is maintained even when setting the temperature 2°C higher than the conventional cooling mode.

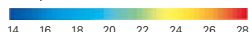
Econo Cool on



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

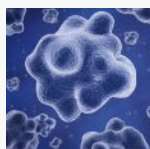
After reaching the target temperature, heating mode will automatically switch to circulator mode, which makes the unit go into “fan-only” state and mixes warm air to eliminate uneven temperature in the room.

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



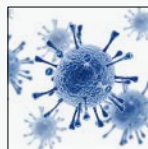
<LN series>

Neutralizes 99% of Staphylococcus aureus in 162 minutes in a 25 m³ test space.
Test No.2016-0118
tested by KRCS-Bio.

<AY series>

Neutralizes 99% of Staphylococcus aureus in 186 minutes in a 25 m³ test space.
Test No.22046475001-0301
tested by KRCS-Bio.

Viruses



<LN series>

Neutralized 99.8% of SARS-CoV-2 in 360 minutes.*¹
Test No.20KB070569
tested by Japan Textile Products Quality and Technology Center
Neutralizes 99% of Influenza A virus particles in 72minutes in a 25 m³ test space.
Test No.28-002
tested by vrc.center, SMC

<AY series>

Neutralized 99.8% of SARS-CoV-2 in 360 minutes.*¹
Test No.20KB070569
tested by Japan Textile Products Quality and Technology Center
Neutralizes 99% of Influenza A virus particles in 210.5minutes in a 25 m³ test space.
Test No. R4-001
tested by National Hospital Organization Sendai Medical Center

Molds



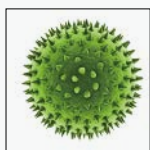
<LN series>

Neutralizes 99% of Penicillium citrinum in 135 minutes in a 25 m³ test space.
Test No. 16069353001-0201
tested by Japan Food Research Laboratories

<AY series>

Neutralizes 99% of Penicillium citrinum in 251 minutes in a 25 m³ test space.
Test No.22046475001-0401
tested by Japan Food Research Laboratories

Allergens



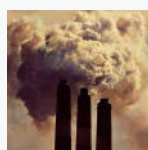
<LN series>

Neutralizes 98% of cat fur and pollen.*¹
Test No. T1606028
tested by ITEA Inc.

<AY series>

Neutralizes 98% of cat fur and pollen.*¹
Test No. T1606028
tested by ITEA Inc.

PM2.5



<LN series>

Neutralizes 90% of PM2.5 particles in 83minutes, 99% of PM2.5 particles in 166minutes in a 28 m³ test space.
In-Company Investigation

<AY series>

Neutralizes 90% of PM2.5 particles in 189 minutes, 99% of PM2.5 particles in 378 minutes in a 28 m³ test space.
Test No. LSRL 21010 F105
tested by Life Science Research Laboratory (Japan)

Dust



<LN series>

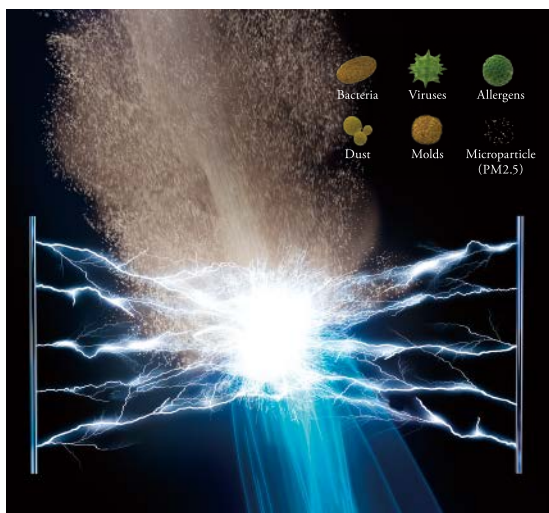
Neutralizes 99.7% of dust and mites.*¹
Test No.T1606028
tested by ITEA Inc.

<AY series>

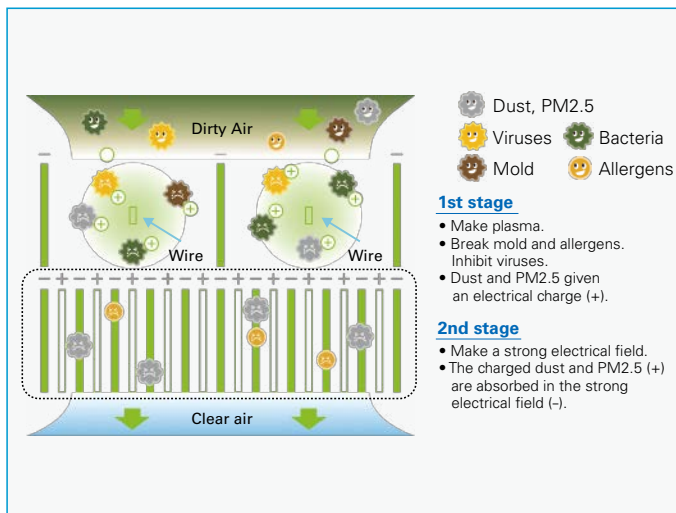
Neutralizes 99.7% of dust and mites.*¹
Test No.T1606028
tested by ITEA Inc.

*¹ The test was conducted on the Plasma Quad Plus device alone, not designed to evaluate product performance so LN and AY series have the same result.

Image of Plasma Quad Plus



Principle of Plasma Quad Plus









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}	SLP-2FAP, SLP-2FALP SLP-2FALMP2
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)	SLZ, and PLFY ^{*2} (2x2 Cassette)
Input Voltage	Single Phase AC220~240V	—	—	Single Phase AC220~240V	Single Phase AC220~240V
Frequency	50/60Hz	—	—	50/60Hz	50/60Hz
Power Consumption	4W	—	—	4W	4W
Size H×W×D	56mm × 499.5mm × 168mm	— ^{*6}	247mm × 917mm × 179mm ^{*7}	134mm × 840mm × 840mm	20mm × 625mm × 625mm
Weight	1,600g	360g ^{*8}	4,570g ^{*7}	8,700g	4,400g

*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. *8 Plasma Quad Connect cannot be used with PAC-SK54/46KFE (V blocking filter).

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 [●]	175min	99% inhibited *10	SMC Virus Research Center Japan (JAPAN)	R2-003
Bacteria	Staphylococcus Aureus	GB21551.6-2010	30m [●]	335min	99% inhibited *10	CHEARI (Beijing) Certification & Testing Co., Ltd.	WK-21-50161
Mold	Penicillium Citrinum	JEM1467	25m [●]	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 [●]	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



Self Clean mode

When Self Clean Mode is activated, fan operation starts after cooling/dry mode. This operation helps to dry inside indoor unit to prevent molds and odors. You can feel the clean air without frequent cleaning by yourself.

① High humidity inside the unit, which can lead to mold growth and odors.



② Airflow operation suppresses mycelial growth.



③ Maintains clean unit interior.



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

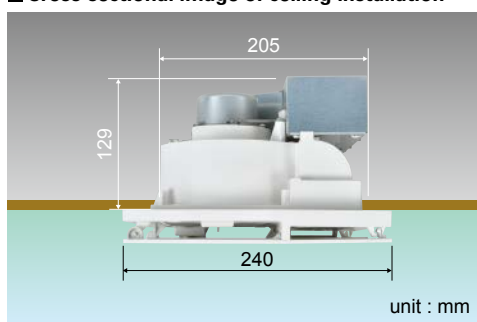
Plasma Quad Technology

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.

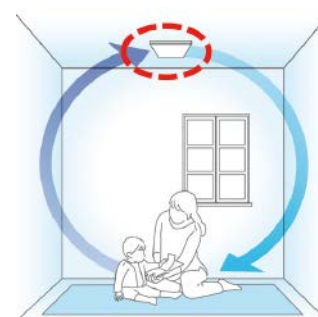
Simple & Floorspace-saving Installation

No duct work is needed, and no floorspace is taken up.

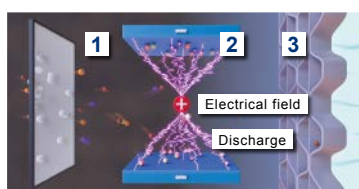
■ Cross-sectional image of ceiling installation



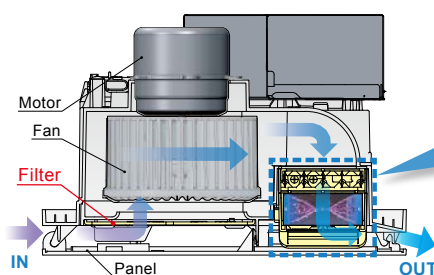
unit : mm



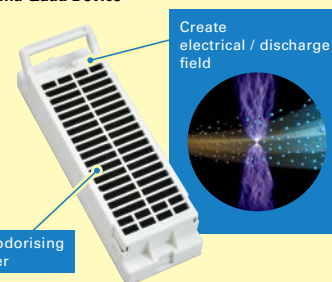
Structure



- 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.

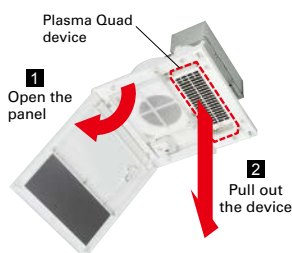


■ Plasma Quad Device



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

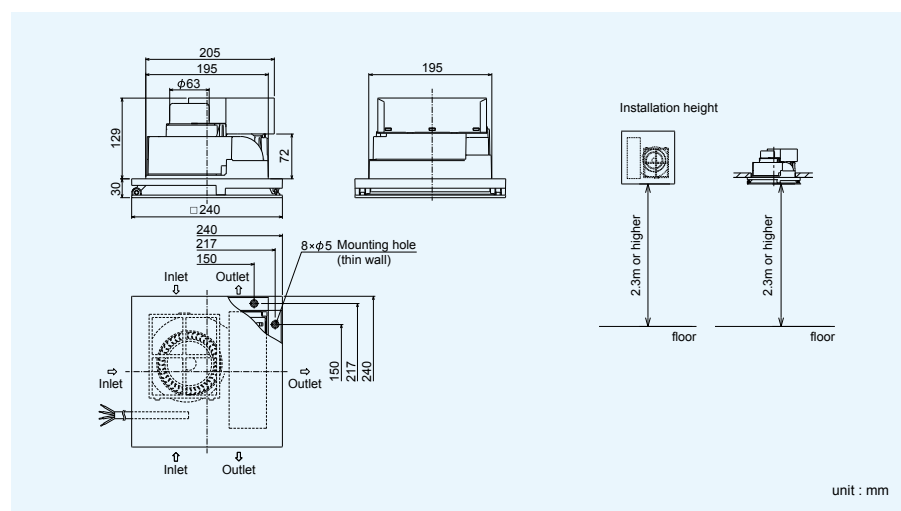
JC-4K-EU type



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.

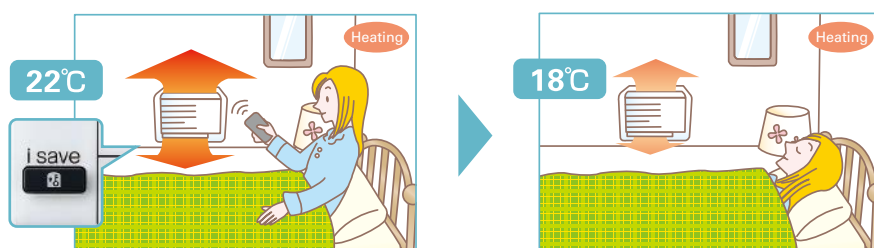
CONVENIENCE

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

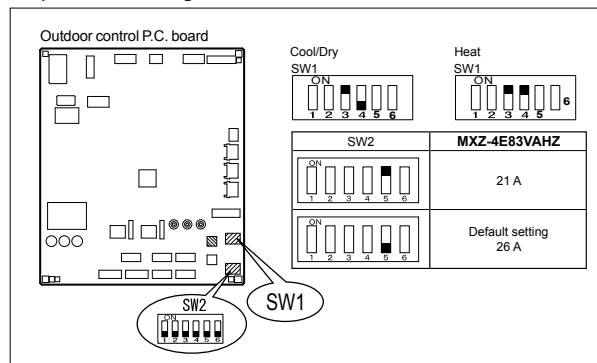
Especially useful at the time of power outages, the unit turns back on automatically when power is restored.

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.

Weekly Timer

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

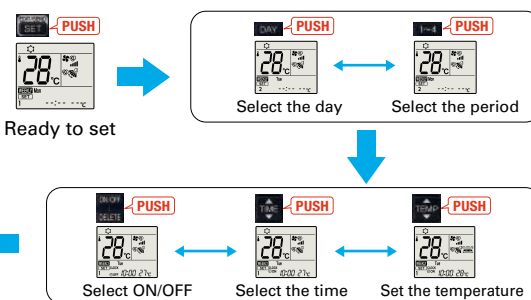
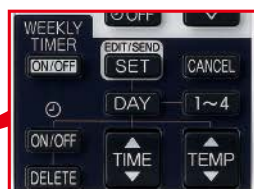
Pattern Settings: Input up to four settings for each day

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.



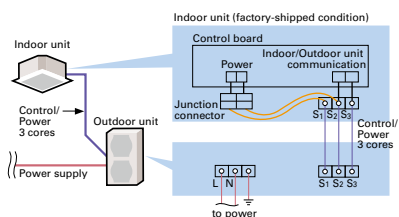
Reuse of Existing Wiring

Wiring recycling problem solved! Compatible with other wiring connection methods*

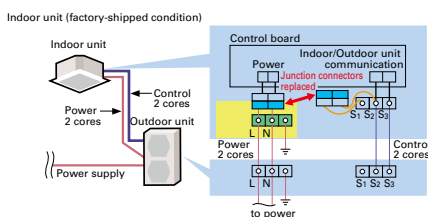
The wiring method has been improved, making it possible to use methods different from that utilized for control and power supply. Units are compatible with the dual harness control line/power line method and the separate power supply method. Using a power supply terminal kit, wire can be efficiently 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.

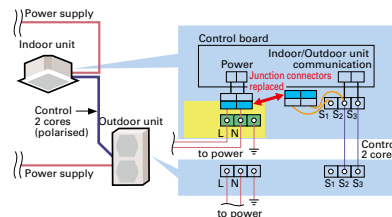
Single Harness Control/Power Line Method (Current method)



Dual Harness Control Line/Power Line Method



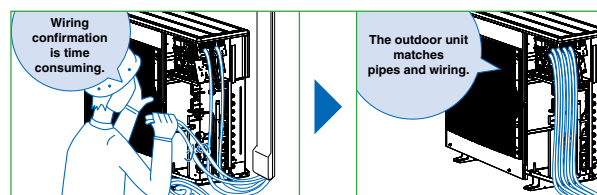
Separate Power Supply Method



Wiring/Piping Correction Function*

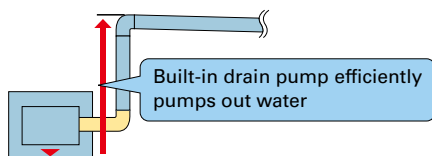
The push of a single button is all that is required to confirm that piping and wiring are properly connected. Corrections are made automatically if a wiring error is detected, eliminating the need for complicated wiring confirmation work when expanding the number of rooms served.

* 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.)

Pump down switch

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-587IF interface

Connecting the Wi-Fi interface

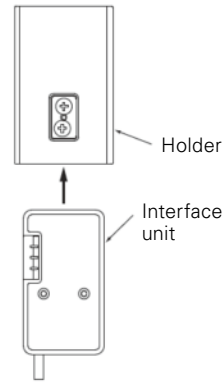
The new Wi-Fi interface MAC-567IF-E can be mounted on the wall or on the outer side of the indoor unit. For LN Series, there is a built-in Wi-Fi interface inside the indoor unit.

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.

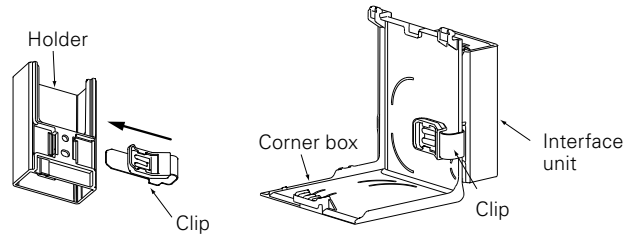


*When mounting on the right side of the unit



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

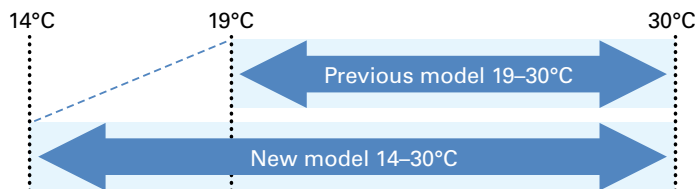
CONTROL TECHNOLOGIES

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 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)

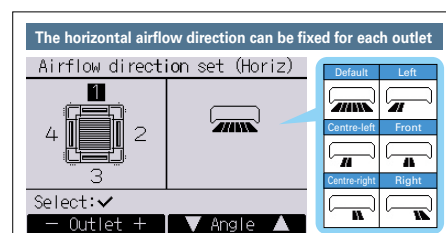
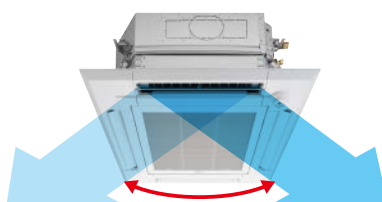
Energy data			
▶2019— 1	123456.7kWh	1/3	
2018— 12	123456.7kWh		
2018— 11	123456.7kWh		
2018— 10	123456.7kWh		
2018— 9	123456.7kWh		
View daily data: ✓			
▼ Cursor ▲			

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.

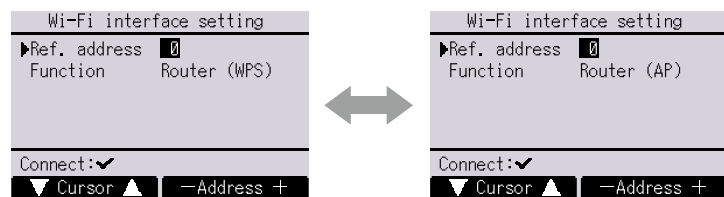
*PLP-P160ELR-E is required to activate this function.

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

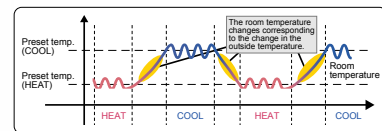
Dual Set Point

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

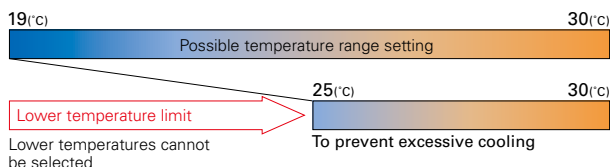
Temperature Range Restriction prevents overheating/overcooling

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**

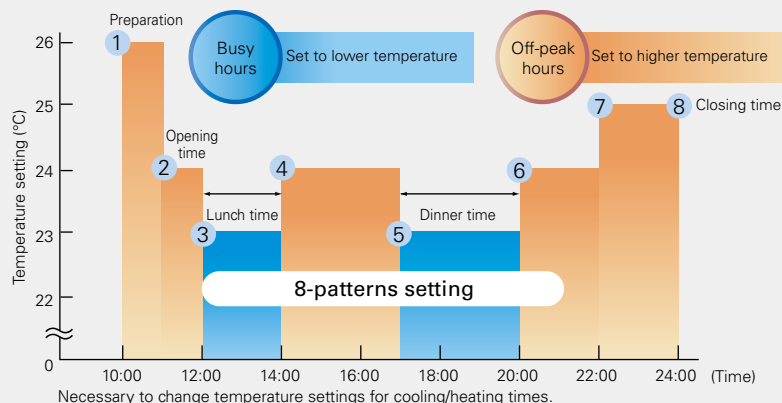
Weekly Timer

WeeklyTimer 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)



Necessary to change temperature settings for cooling/heating times.

*Joint research conducted with Japan Facility Solutions, Inc.

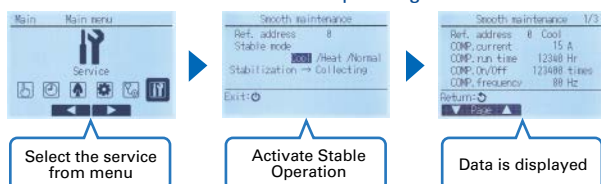
Installation/Maintenance Support Functions

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



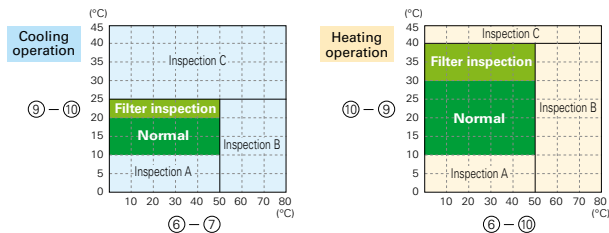
Display information (11 items)

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.



		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.

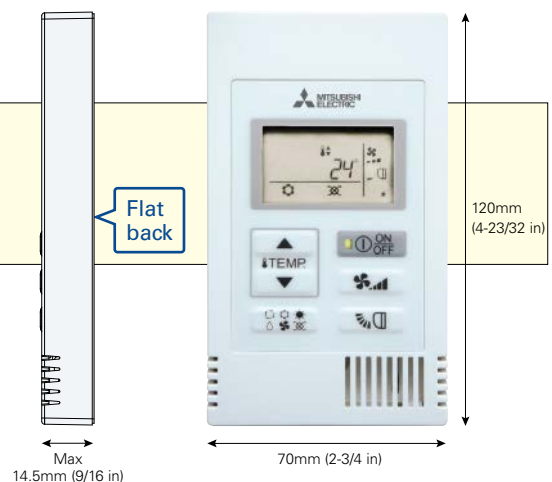
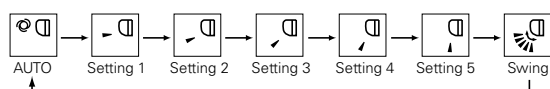
Flat Back

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.

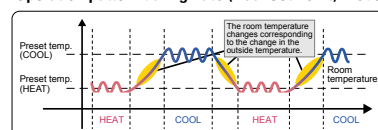


Dual Set Point

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



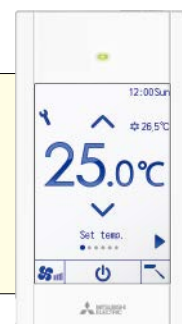
*Please refer to the function list on pages 193-200 for the combination of the available units.

* 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

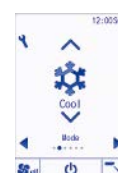
3.5 inch/HVGA Full Color LCD



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.

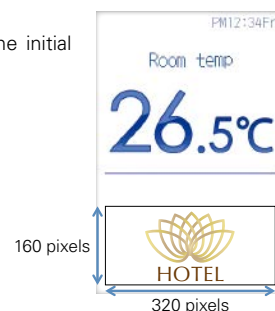
● **Control parameter customize**

Simple operation panel is preferred 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



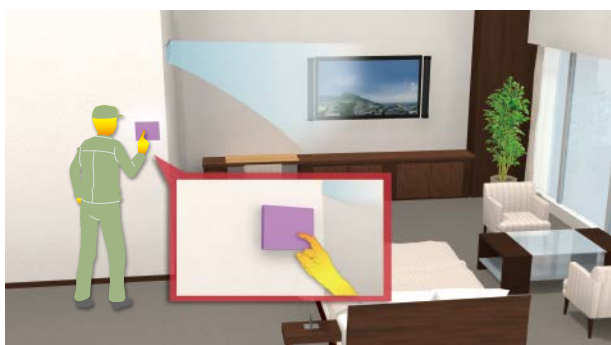
Setting App

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.



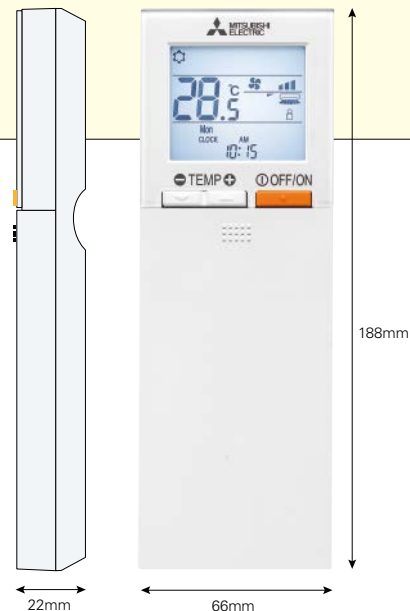
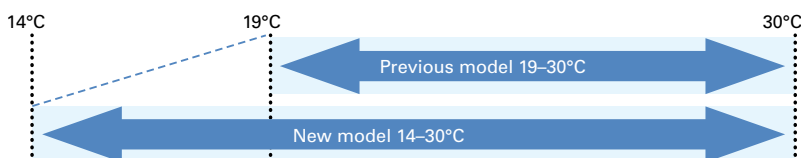
CONTROL TECHNOLOGIES

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.

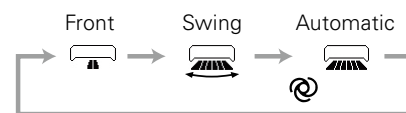


Horizontal airflow settings

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

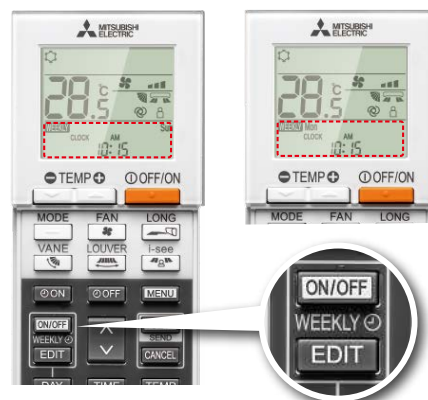
The Weekly Timer enables the setting of operation start and finish times and adjusting the temperature as standard features. Up to 4 patterns per day can be set, providing operation that matches the varying conditions of each period, such as the number of customers in the store.

■ 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							
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						
22:00	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
(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



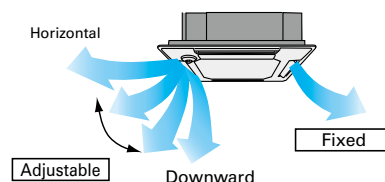
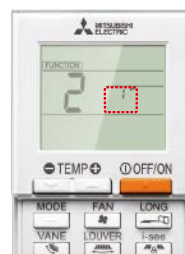
Backlight

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.



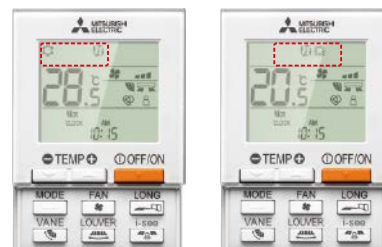
Battery Replacement Sign

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.

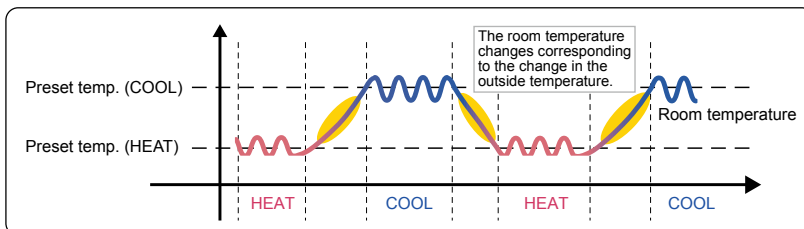


Dual Set Point

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.



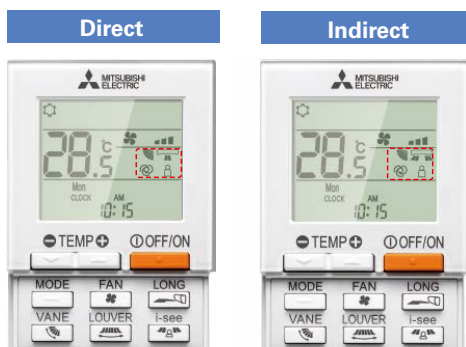
Operation pattern during Auto (Dual Set Point) mode



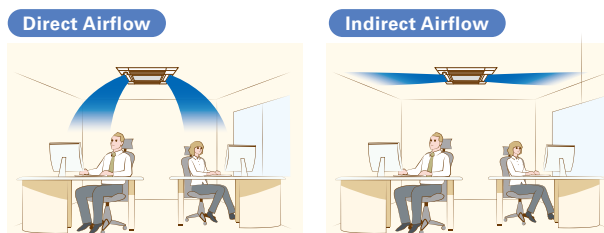
* Only available for compatible models.

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



* 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]


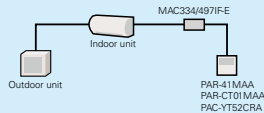
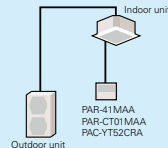

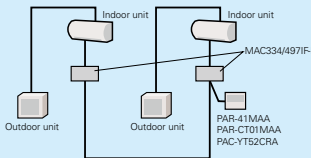
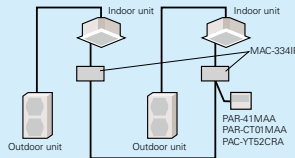
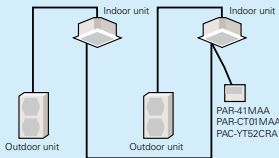

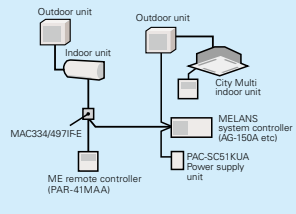
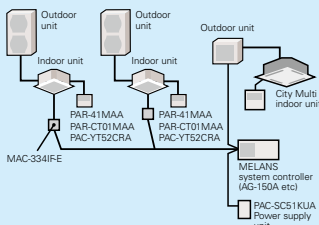
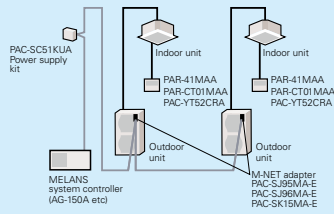
*This remote controller is only compatible with the following models: SLZ-M15/25/35/50/60FA, PLFY-P15/20/25/32/40/50/50FM-E1, PLA-ZM/RP35/50/60/71/100/125/140EA, PLFY-P20/25/32/40/50/63/80/100/125VEM-E

*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"> MAC334/497IF-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-334IFE is counted as one system.) Up to two remote controller can be connected. PAR-SL101A cannot be used when connected through the MAC-334IFE or when group control is used. 		
Major Optional Parts Required	<ul style="list-style-type: none"> MAC334/497IF-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"> MAC334/497IF-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. *Simple Timer and Auto-off Timer cannot be used at the same time. 	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-AY25/35/42/50VGK(P)	MSZ-AP15/20VG	MSZ-AP60/71VG	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-AY	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	●	●		●*1						
		Plasma Quad										
		Dual Barrier Coating	●	●								
		Dual Barrier Material	●									
		Silver-ionized Air Purifier Filter		Opt	●	Opt		Opt	●	Opt	Opt	
		V Blocking Filter	Opt	Opt	●	●*2	●	●	●	●	●	Opt
		Air Purifying Filter			●	●	●	●	●	●	●	
		Self Clean Mode				●						
	Air Distribution	Double Vane	●	●								
		Horizontal Vane	●	●	●	●	●	●	●	●	●	
		Vertical Vane	●	●	●	●	●	●				
		High Ceiling Mode										
		Auto Fan Speed Mode	●	●	●	●	●	●	●	●	●	
		Circulator Mode	●*3	●*3	●*3	●*3						
	Convenience	On/off Operation Timer	●	●	●	●	●	●	●	●	●	
		"i save" Mode	●	●	●	●	●	●	●	●	●	
		Auto Changeover	●	●	●	●	●	●	●	●	●	
		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 *5	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		PAR-CT01MAA Control *5	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		PAC-YT52CRA Control *5	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		Centralised On/Off Control *5	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		System Group Control *5	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		M-NET Connection *5	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		Wi-Fi Interface	●	●	●*6	●	●*6	●*6	●*6	●*6	●*6	●*6
		Energy Consumption Monitoring through MEL Cloud										
	Installation	Cleaning-free Pipe Reuse	●	●	●	●	●	●	●	●	●	
		Wiring/Piping Correction Function										
		Drain Pump										
		Flare Connection	●	●	●	●	●	●	●	●	●	
	Maintenance	Self-Diagnosis Function (Check Code Display)	●	●	●	●	●	●	●	●	●	
		Failure Recall Function	●	●	●	●	●	●	●	●	●	

*1 Only VGKP model.

*2 Equipped as standard for VGK model.

*3 Available only for Scandinavian model.

*4 When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible.

*5 Please refer to "System Control" on pages for details.

*6 Only VGK 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	MFZ-KW25/35/ 50/60VG	MLZ-KP25/35/ 50VF	MLZ-KY20VG
	MUZ-DW	MUZ-FH	MUZ-SF	MUZ-GF	MUZ-WN	MUZ-DM	MUZ-HJ	MUZ-HJ	SUZ-M	MUFZ-KW	SUZ-M	Multi
	●	●	●	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●	●	●
	●	●	●		●	●	●	●	●	●	●	●
	●	●	●	●	●	●		●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●	●	●
		●										
		●										
	●	●	●	●	●	●	●	●	●	●	●	●
		●	●	●					●	●		●
		●										
	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
	●*6								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 *1				SEZ-M25/35/50/60/71DA(L)2				SFZ-M25/35/50/60/71VA
			Outdoor unit	SUZ-M	SUZ-KA	PUZ-ZM	PUHZ-ZRP	SUZ-M	SUZ-KA	PUZ-ZM		SUZ-M
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	●	●	●	●						
	Air Distribution	Filter Check Signal	●	●	●	●						
		Horizontal Vane	●	●	●	●						
		Vertical Vane										
		High Ceiling Mode	●	●	●	●						
		Low Ceiling Mode										
	Convenience	Auto Fan Speed Mode	●	●	●	●	●	●		●		
		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 *2			●	●							
	System Control	PAR-41MAA Control *3		Opt	Opt	Opt	Opt	Opt			Opt	
		PAR-CT01MAA Control *3		Opt	Opt	Opt	Opt	Opt			Opt	
		PAC-YT52CRA Control *3		Opt	Opt	Opt	Opt	Opt			Opt	
		Centralised On/Off Control *3		Opt	Opt	Opt	Opt	Opt			Opt	
		System Group Control *3		Opt	Opt	Opt	Opt	Opt			Opt	
M-NET Connection *3		Opt	Opt			Opt			Opt			
Installation	COMPO *4				71-140	71-140						
	Cleaning-free Pipe Reuse		●	●	●	●	●	●		●		
	Reuse of Existing Wiring											
	Wiring/Piping Correction Function											
	Drain Pump		●	●	●	●	Opt					
	Pump Down Switch											
	Flare Connection		●	●	●	●	●	●		●		
Maintenance	Self-Diagnosis Function (Check Code Display)		●	●	●	●	●	●		●		
	Failure Recall Function		●	●	●	●	●	●		●		

*1 SLZ-M15 can be connected with R32 MXZ only.

*2 This function is only available with PAR-41MAA, PAC-YT52CRA, PAR-SL101A-E.

*3 Please refer to "System Control" on pages for details.

*4 Please refer to page 57 for details.

*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 (3)

Category	Icon	Combination	Indoor unit	P SERIES															
				PEAD-M35/50/60/71/100/125/140JA(L)2							PEA-M200/250LA2				PKA-M35/50LA(L)2				
				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																		
	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			35-71	35-71	100	100	●	●						35-71	35-71	100		
	Magnetic Flux Vector Sine Wave Drive		●	●		●	●				●	●	●	●		●	●		
	Reluctance DC Rotary Compressor			35-71	35-71	100-140	100-140	●	●						35-71	35-71	●		
	Highly Efficient DC Scroll Compressor		●	100-250	100-250	200/250	200/250				●	●	●	●	100-200	100-200			
	Heating Caulking (Compressor)			35-71	35-71	100	100	●	●						35-71	35-71			
	DC Fan Motor		●	●	●	●	●	●	●		●	●	●	●	●	●	●		
	Vector-Wave Eco Inverter		●	●	●	●	●				●	●	●	●	●	●	●		
	PAM (Pulse Amplitude Modulation)		●	35-140	35-140	100-140V	100-140V	●	●						35-140	35-140	100V-140V		
	Power Receiver and Twin LEV Control		●	35-250	35-140	100-250	100-140				●		●		35-200	35-140	100-140		
Grooved Piping		●	●	●	●	●	●	●		●	●	●	●	●	●	●			
Functions	i-see Sensor	Felt Temperature Control (3D i-see Sensor)																	
		AREA Temperature Monitor																	
	Energy Saving	Demand Function		Opt	Opt	Opt	Opt	Opt			Opt	Opt	Opt	Opt	Opt	Opt	Opt		
	Attractive	Pure White													●	●	●		
		Auto Vane														●	●	●	
	Air Quality	Fresh-air Intake																	
		High-efficiency Filter																	
		Oil Mist Filter																	
		Long-life Filter		●	●	●	●	●	●	●		Opt	Opt	Opt	Opt				
		Filter Check Signal		●	●	●	●	●	●	●	●	●	●	●	●	Opt	Opt	Opt	
	Air Distribution	Horizontal Vane														●	●	●	
		Vertical Vane																	
		High Ceiling Mode																	
		Low Ceiling Mode																	
	Convenience	Auto Fan Speed Mode		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		On/off Operation Timer		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		Auto Changeover		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		Auto Restart		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		Low-temperature Cooling		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		Low-noise Operation (Outdoor Unit)		●	●	●	●	●	●			●	●	●	●	●	●	●	
		Ampere Limit Adjustment		112/140	60-140V	60-140V 200/250							●			71-140V	71-140V 200		
		Operation Lock																	
	System Control	Rotation, Back-up and 2nd Stage Cut-in Functions		●	●	●	●	●				●		●		●	●	●	
		Dual Set Point *1			●	●	●	●	●			●	●	●	●	●	●	●	
		PAR-41MAA Control *2		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		PAR-CT01MAA Control *2		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		PAC-YT52CRA Control *2		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		Centralised On/Off Control *2		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt		Opt		Opt	Opt	Opt	Opt	
		System Group Control *2		●	●	●	●	●	●	Opt	Opt	●	●	●		Opt	Opt	Opt	
		M-NET Connection *2		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	Installation	COMPO *3		●	71-250	71-250	COMPO	●				●		●		71-200	71-200	●	
		Cleaning-free Pipe Reuse		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		Reuse of Existing Wiring		Opt	Opt	Opt	Opt	Opt								Opt	Opt	Opt	
		Wiring/Piping Correction Function																	
		Drain Pump		●*4	●*4	●*4	●*4	●*4	●*4	●*4	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		Pump Down Switch		●	●	●	●	●			●	●	●	●	●	●	●	●	
		Flare Connection		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		Self-Diagnosis Function (Check Code Display)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Maintenance	Failure Recall Function		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

*1 This function is only available with PAR-41MAA, PAC-YT52CRA, PAR-SL101A-E.

*2 Please refer to "System Control" on pages for details.

*3 Please refer to page 64 for details.

*4 PEAD-M JAL are not equipped with a drain pump.

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		
●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●									
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	●	●	●	●	●
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt					
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt					
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Opt	Opt	Opt	Opt	Opt	Opt	●	●	●	●	Opt	Opt	●	●	Opt	Opt	Opt	Opt	Opt
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	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 (4)

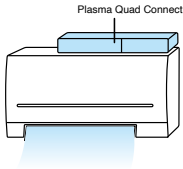
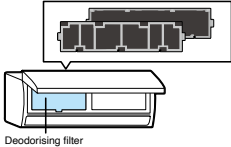
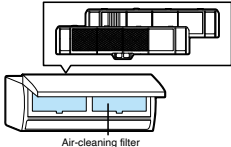
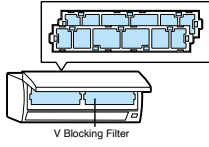
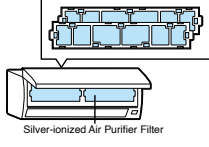
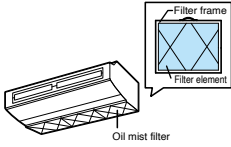
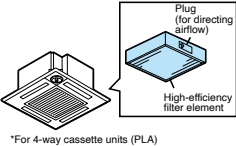
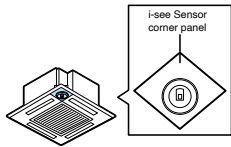
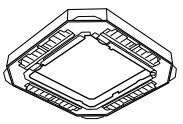
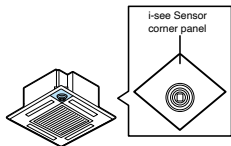
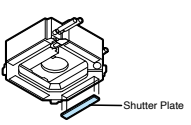
Category	Icon	Series	MXZ SERIES															
			Std					Lo-std		H2i		Lo-std		Std				
			MXZ-VA(2)					MXZ-VA		MXZ-VA		MXZ-VF		MXZ-VF4				
			2D	3E	4E	5E	6D	2DM	3DM	2E	4E	2HA	3HA	2F	3F	4F		
Technology	DC Inverter		●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Joint Lap DC Motor		●	●	●	●		●	●	●		●	●	●	●	●		
	Magnetic Flux Vector Sine Wave Drive																	
	Reluctance DC Rotary Compessor				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	●*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		●	●	●	●	●	●	●	●	●	●	●	●	●	●	

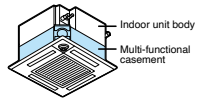
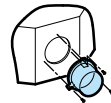
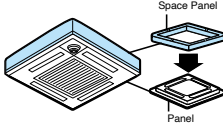
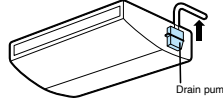
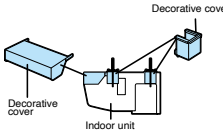
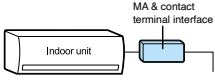
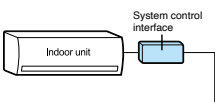
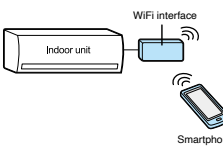
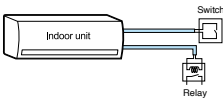
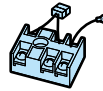
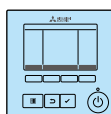
*1 When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible.



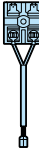
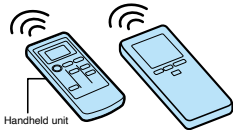
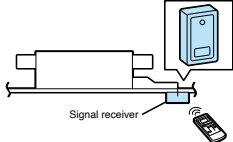
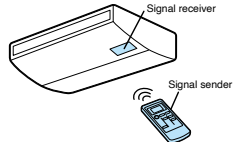
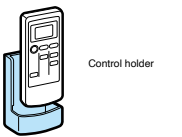
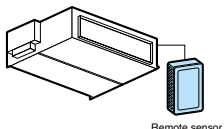
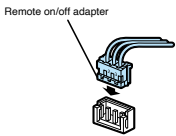
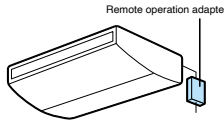
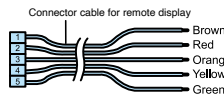
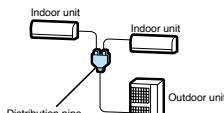
*2 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on pages 139-140 for details.

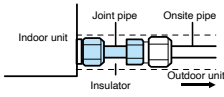
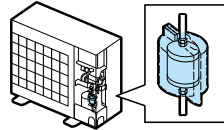
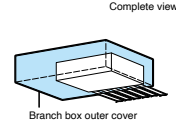
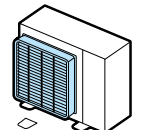
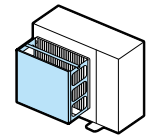
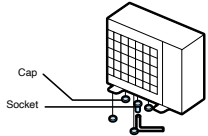
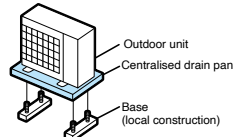
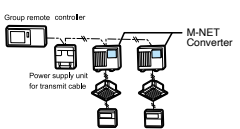
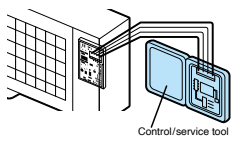
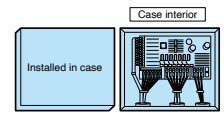
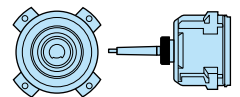
*3 Please refer to "System Control" on pages for details.

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>Filter frame Filter element 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 *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 *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.	 <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
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-AY25VGK(P)																	
		MSZ-AY35VGK(P)																	
		MSZ-AY42VGK(P)																	
		MSZ-AY50VGK(P)																	
		MSZ-AP15VG																	
		MSZ-AP20VG																	
		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																	
		MLZ-KY20VG																	

*1 Equipped as standard for VGK model.

*2 Plasma quad plus is equipped as standard for VGKP model.

*3 Outside attachment only.

*4 Either MAC-334IF-E or MAC-497IF-E is required. Up to two wired remote controllers can be connected at the same time.

*5 Either MAC-334IF-E or MAC-497IF-E is required. Only one wired remote controller can be connected.

*6 Available only for LN18/25/35/50/60VG2W.

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	PAC-SH59 ^{*1} KF-E	PAC-SH88 ^{*2} KF-E	PAC-SH89 ^{*3} KF-E	PAC-SH90 ^{*4} KF-E	PAC-SK53 ^{*5} KF-E	PAC-SK54 KF-E	PAC-SK55 ^{*6} KF-E	PAC-SK56 ^{*7} KF-E	PAC-SK57 ^{*8} KF-E	MAC-2470 FT-E	MAC-1416 FT-E	PAC-KE92 TB-E		PAC-KE93 TB-E	PAC-KE94 TB-E	PAC-KE95 TB-E	PAC-KE250 TB-F	
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																							
	Concealed floor standing	SFZ-M25VA																							
		SFZ-M35VA																							
		SFZ-M50VA																							
		SFZ-M60VA																							
		SFZ-M71VA																							
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-M200LA2		●																				●	
	PEA-M250LA2		●																				●		
	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 High-efficiency filter element (PAC-SH59KF-E) cannot be used with 3D Total Flow unit (PLP-U160ELR-E), Plasma Quad Connect (PAC-SK51FT-E), Insulation kit (PAC-SK36HK-E) and V Blocking Filter (PAC-SK53KF-E).

*2 High-efficiency filter element (PAC-SH88KF-E) cannot be used with V Blocking Filter (PAC-SH89KF-E).

*3 High-efficiency filter element (PAC-SH89KF-E) cannot be used with V Blocking Filter (PAC-SH89KF-E).

*4 High-efficiency filter element (PAC-SH90KF-E) cannot be used with V Blocking Filter (PAC-SH90KF-E).

*5 V Blocking Filter (PAC-SK53KF-E) cannot be used with High-efficiency filter element (PAC-SH59KF-E).

*6 V Blocking Filter (PAC-SK55KF-E) cannot be used with High-efficiency filter element (PAC-SH88KF-E).

*7 V Blocking Filter (PAC-SK56KF-E) cannot be used with High-efficiency filter element (PAC-SH89KF-E).

*8 V Blocking Filter (PAC-SK57KF-E) cannot be used with High-efficiency filter element (PAC-SH90KF-E).

*9 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).

*10 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)
 *11 Shutter Plate (PAC-SJ37SP-E) cannot be used with 3D Total Flow unit (PLP-U160ELR-E) and Insulation kit (PAC-SK36HK-E).
 *12 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)
 *13 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>

Option		Fresh-air Intake Duct Flange		Space Panel	Drain Pump							Decorative Cover	System Control 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- 587 IF-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								●			●	●	
	Concealed floor standing	SFZ-M25VA											●	●	
		SFZ-M35VA											●	●	
		SFZ-M50VA											●	●	
		SFZ-M60VA											●	●	
		SFZ-M71VA											●	●	
P SERIES	4-way Cassette	PLA-ZM35EA2	●		●								● ^{*1}	●	
		PLA-ZM50EA2	●		●								● ^{*1}	●	
		PLA-ZM60EA2	●		●								● ^{*1}	●	
		PLA-ZM71EA2	●		●								● ^{*1}	●	
		PLA-ZM100EA2	●		●								● ^{*1}	●	
		PLA-ZM125EA2	●		●								● ^{*1}	●	
		PLA-ZM140EA2	●		●								● ^{*1}	●	
		PLA-M35EA2	●		●								● ^{*1}	●	
		PLA-M50EA2	●		●								● ^{*1}	●	
		PLA-M60EA2	●		●								● ^{*1}	●	
		PLA-M71EA2	●		●								● ^{*1}	●	
		PLA-M100EA2	●		●								● ^{*1}	●	
		PLA-M125EA2	●		●								●	●	
		PLA-M140EA2	●		●								●	●	
	Ceiling - conceald	PEAD-M35JA(L)2											● ^{*1}	●	
		PEAD-M50JA(L)2											● ^{*1}	●	
		PEAD-M60JA(L)2											● ^{*1}	●	
		PEAD-M71JA(L)2											● ^{*1}	●	
		PEAD-M100JA(L)2											● ^{*1}	●	
		PEAD-M125JA(L)2											● ^{*1}	●	
		PEAD-M140JA(L)2											● ^{*1}	●	
		PEA-M200LA2									●		● ^{*1}	●	
		PEA-M250LA2									●		● ^{*1}	●	
	Wall - mounted	PKA-M35LA(L)2				●							● ^{*1}	●	
		PKA-M50LA(L)2				●							● ^{*1}	●	
		PKA-M60KA(L)2			●								● ^{*1}	●	
		PKA-M71KA(L)2			●								● ^{*1}	●	
		PKA-M100KA(L)2			●								● ^{*1}	●	
	Ceiling - suspended	PCA-M35KA2				●							● ^{*1}	●	
		PCA-M50KA2				●							● ^{*1}	●	
		PCA-M60KA2						●					● ^{*1}	●	
		PCA-M71KA2					●						● ^{*1}	●	
		PCA-M100KA2					●						●	●	
		PCA-M125KA2					●						●	●	
		PCA-M140KA2					●						●	●	
		PCA-M71HA2		●								●	●	●	
	Floor - standing	PSA-M71KA												●	
		PSA-M100KA												●	
		PSA-M125KA												●	
		PSA-M140KA												●	

*1 P Series indoor units can be used in combination with SUZ or MXZ outdoor units. *2 PAC-SH29TC-E is required for wireless model. *3 Group control cannot be used.

*4 Unable to use with wireless remote controller.

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-AY25VG																		
		MUZ-AY25VGH																		
		MUZ-AY35VG																		
		MUZ-AY35VGH																		
		MUZ-AY42VG																		
		MUZ-AY42VGH																		
		MUZ-AY50VG																		
		MUZ-AY50VGH																		
		MUZ-AP60VG																		
		MUZ-AP71VG																		
	E Series	MUZ-EF25VG																		
		MUZ-EF25VGH																		
		MUZ-EF35VG																		
		MUZ-EF35VGH																		
		MUZ-EF42VG																		
		MUZ-EF50VG																		
	BT Series	MUZ-BT20VG																		
		MUZ-BT25VG																		
		MUZ-BT35VG																		
		MUZ-BT50VG																		
	HR Series	MUZ-HR25VF																		
		MUZ-HR35VF																		
		MUZ-HR42VF																		
		MUZ-HR50VF																		
		MUZ-HR60VF																		
	DW Series	MUZ-HR71VF																		
		MUZ-DW25VF																		
		MUZ-DW35VF																		
	TP Series	MUZ-DW50VF																		
		MUY-TP35VF																		
	F Series	MUY-TP50VF																		
		MUZ-FH25VE																		
		MUZ-FH25VEHZ																		
		MUZ-FH35VE																		
		MUZ-FH35VEHZ																		
S Series	MUZ-FH50VE																			
	MUZ-FH50VEHZ																			
	MUZ-SF25VE																			
	MUZ-SF25VEH																			
	MUZ-SF35VE																			
	MUZ-SF35VEH																			
G Series	MUZ-SF42VE																			
	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]

****Please connect the muffler to the gas piping within 3 meters from the piping connection port of the outdoor unit. Please attach this if you are concerned about refrigerant noise.**

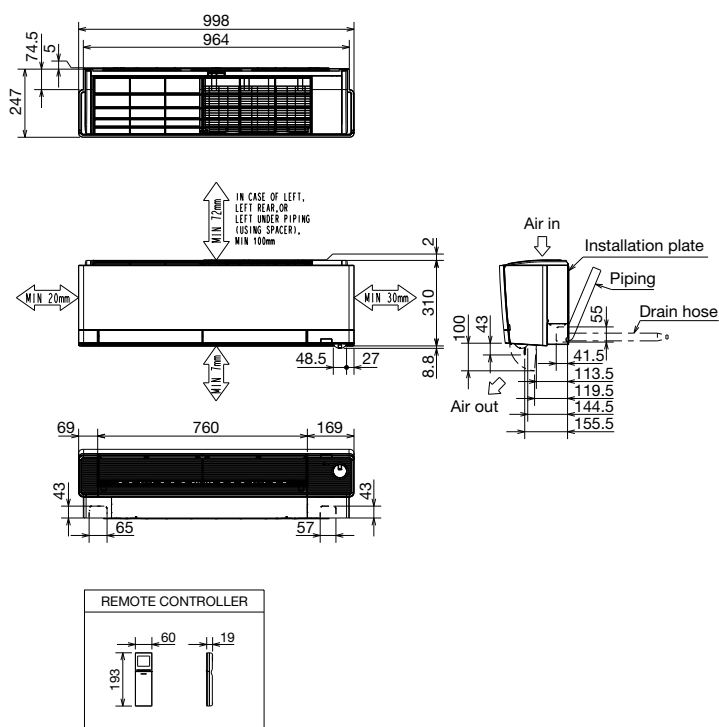
External Dimensions

M SERIES

Unit: mm

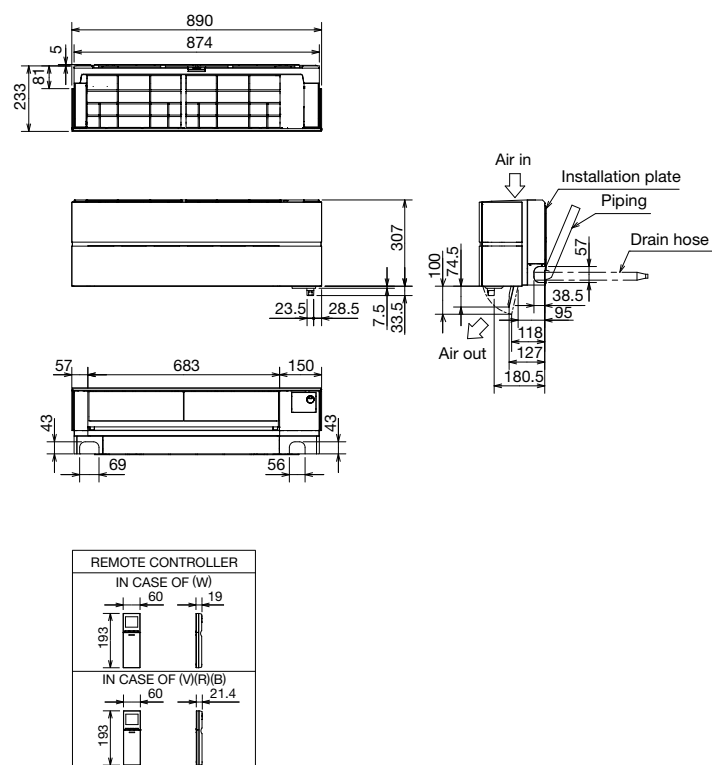
MUZ-RW25VGHZ MUZ-RW35VGHZ MUZ-RW50VGHZ

INDOOR UNIT



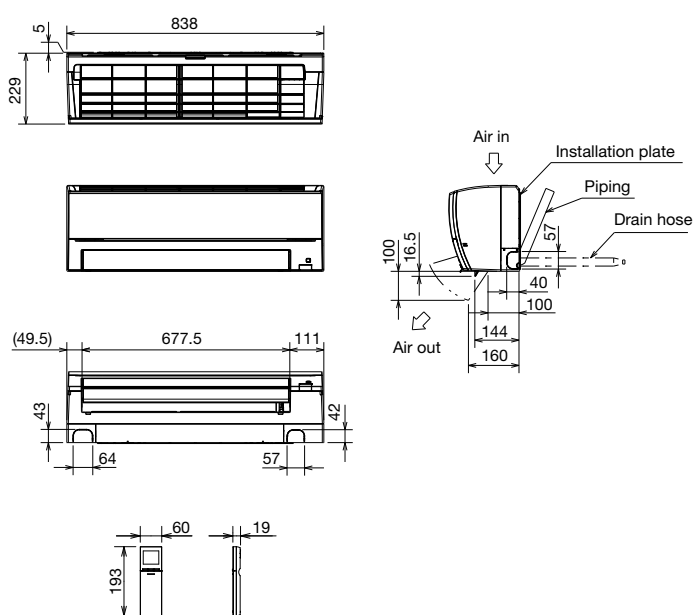
**MSZ-LN25VG2(W)(V)(R)(B) MSZ-LN35VG2(W)(V)(R)(B)
MSZ-LN50VG2(W)(V)(R)(B) MSZ-LN60VG2(W)(V)(R)(B)**

INDOOR UNIT



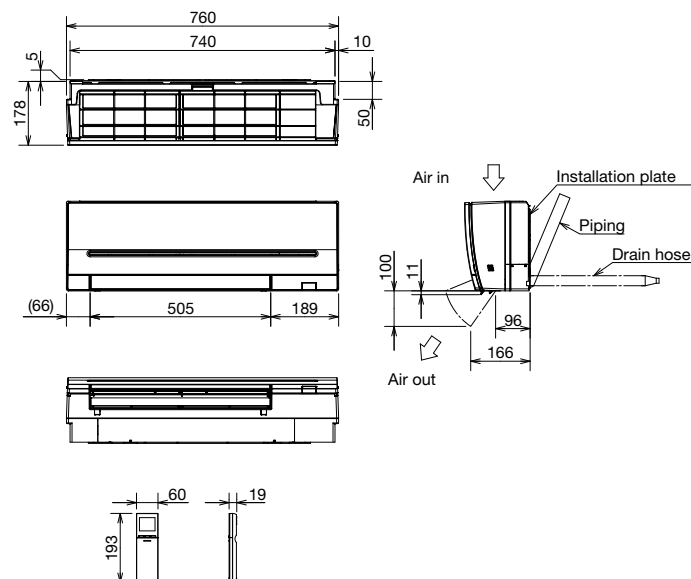
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MSZ-FT25VGK MSZ-FT35VGK MSZ-FT50VGK**

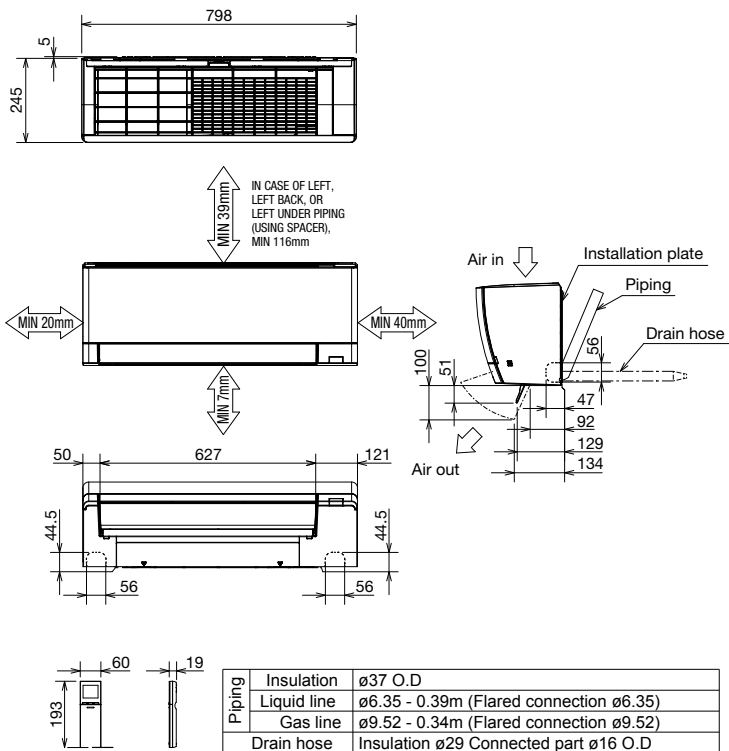
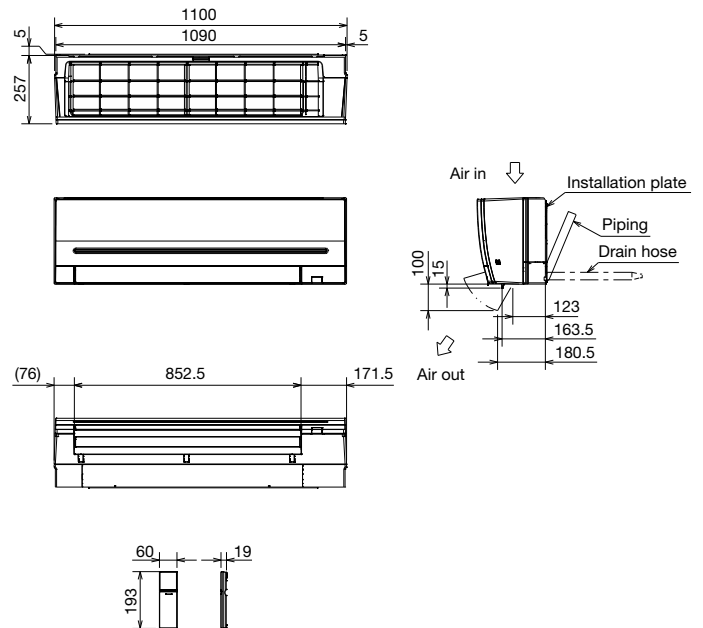
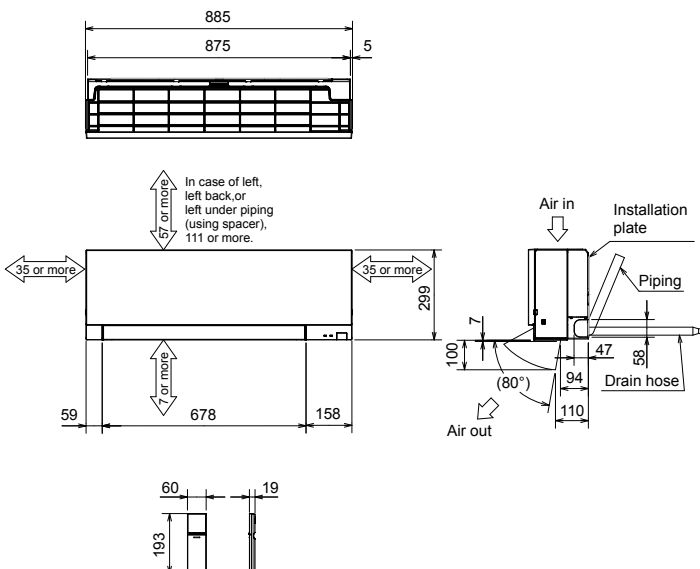
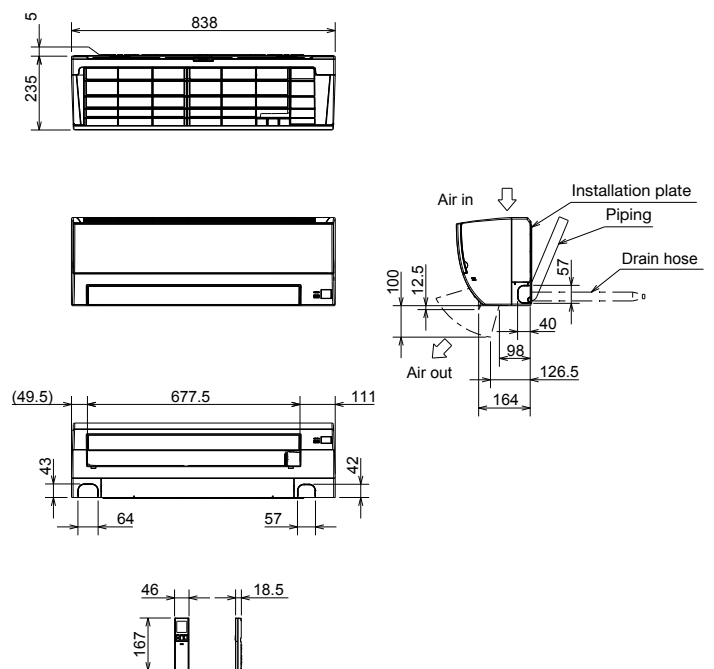
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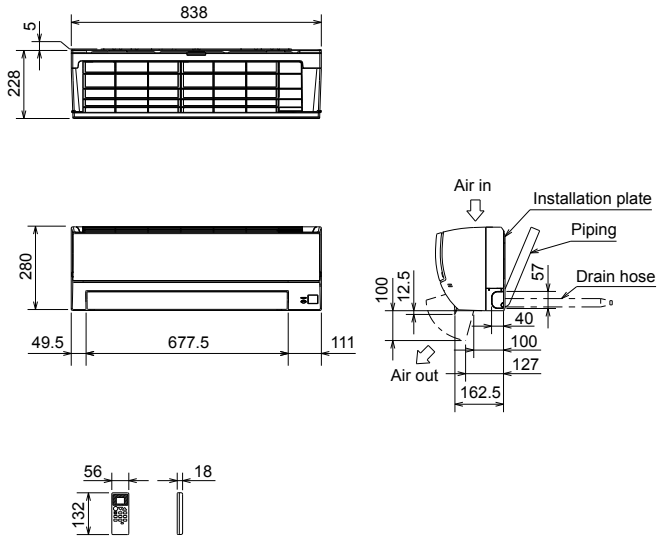
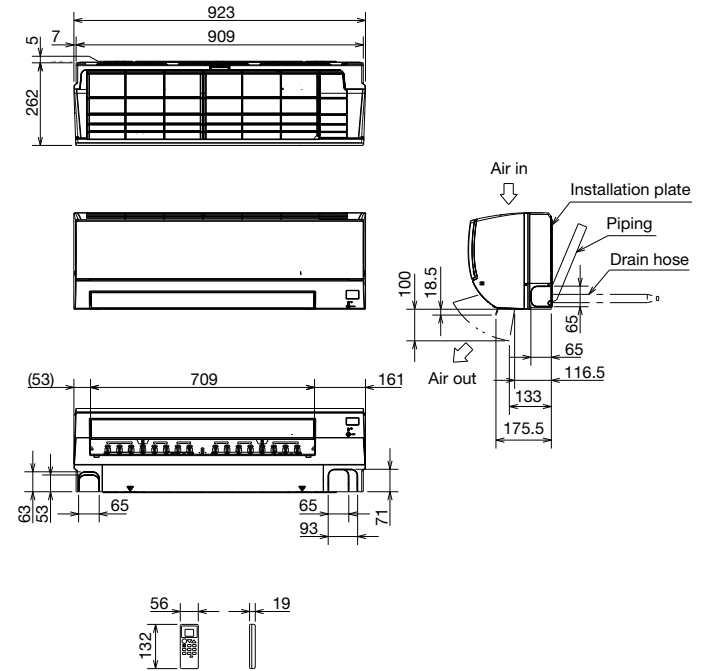
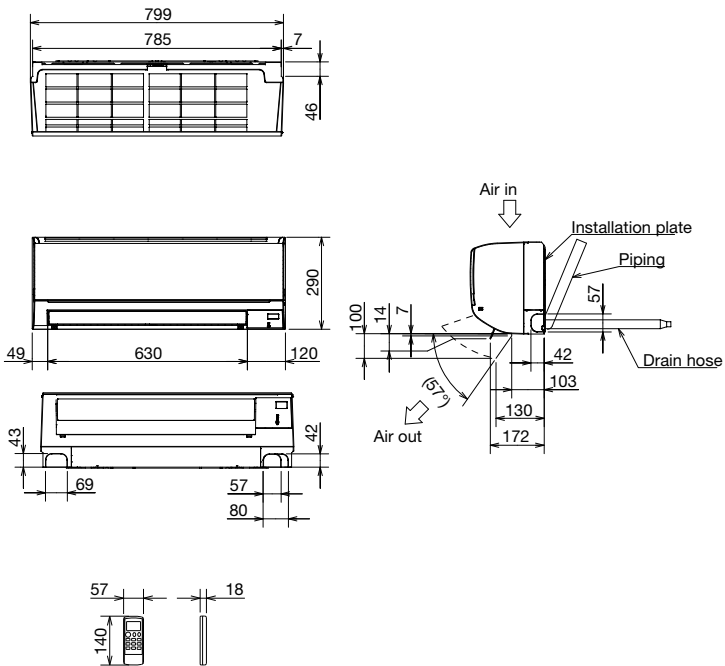
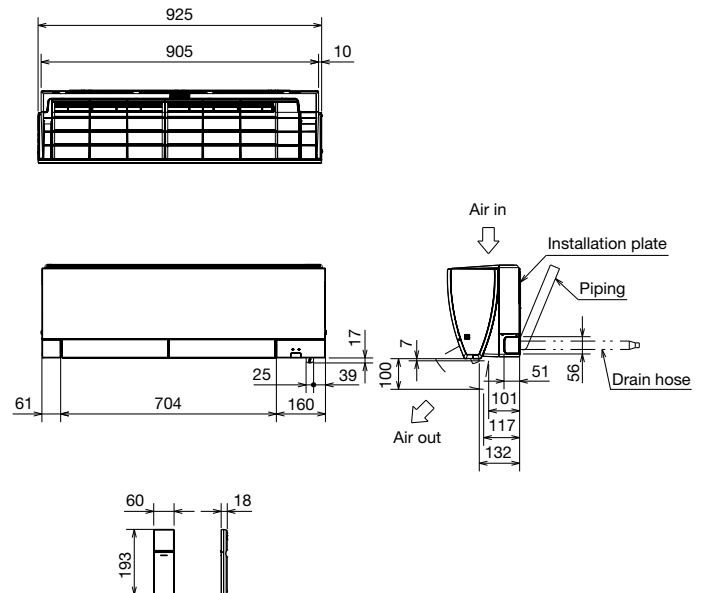


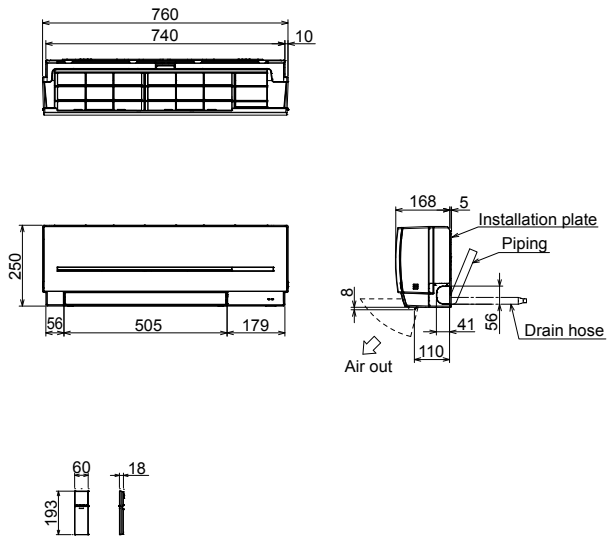
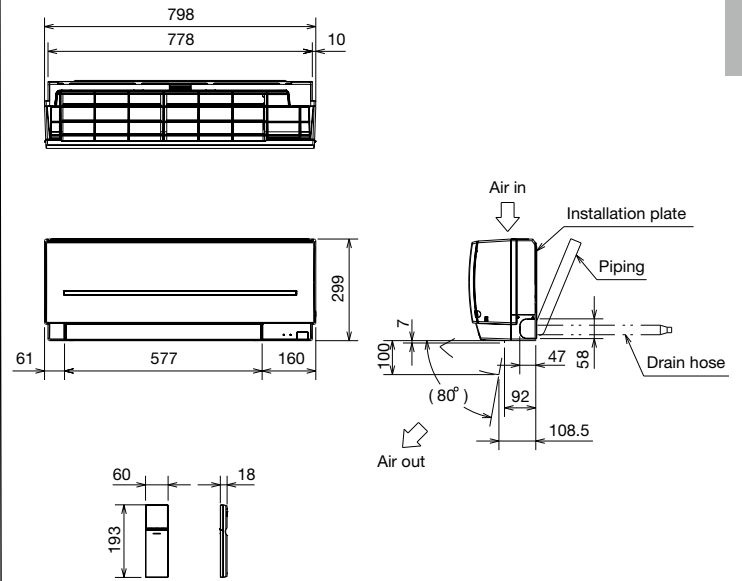
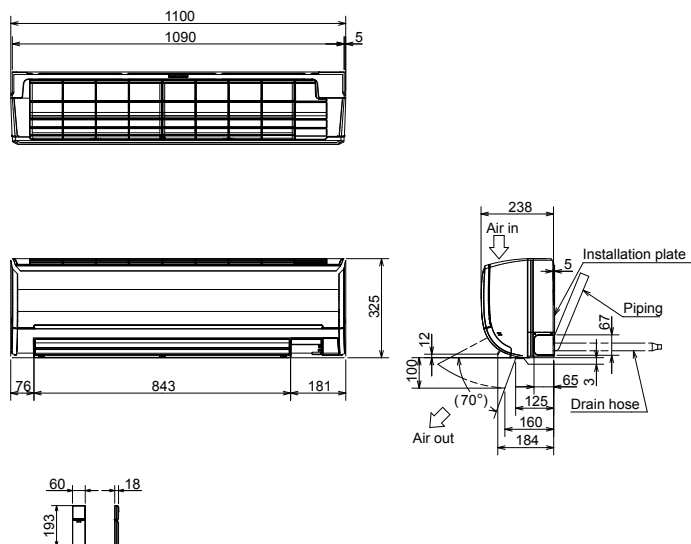
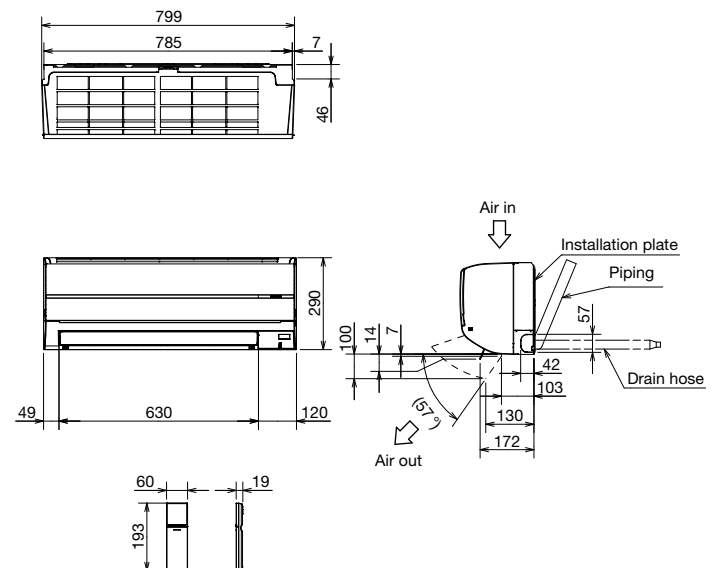
MSZ-AP15VG MSZ-AP20VG

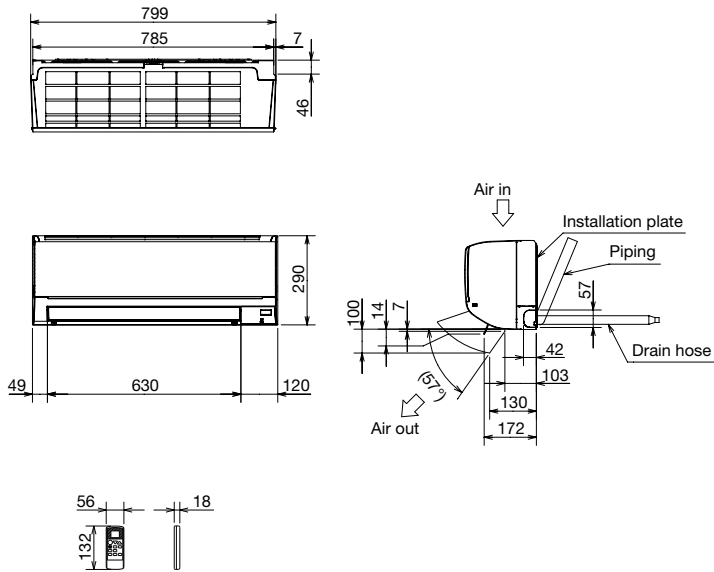
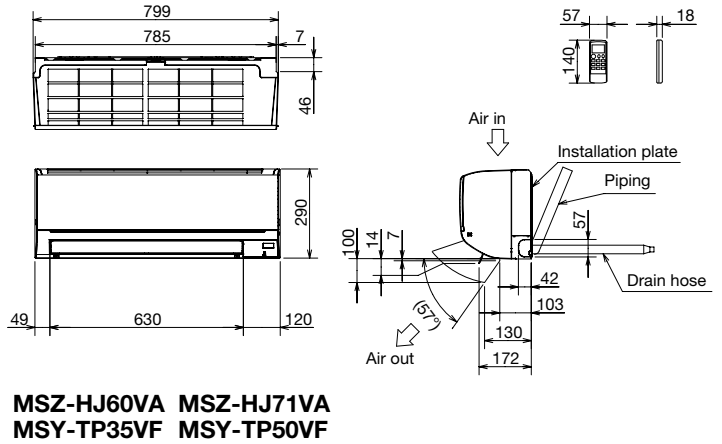
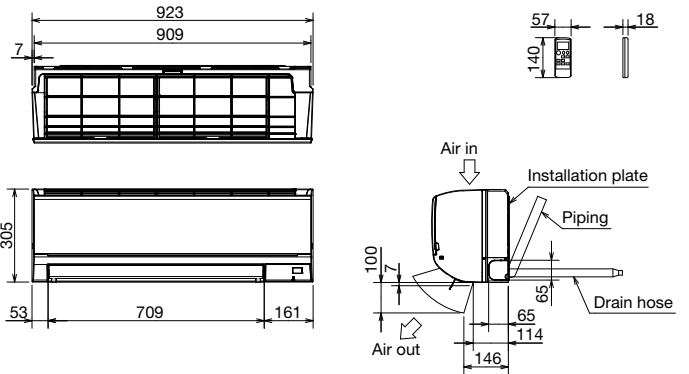
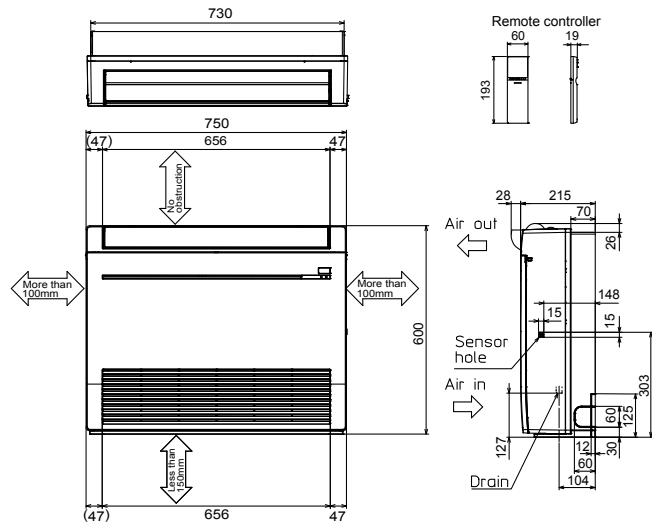
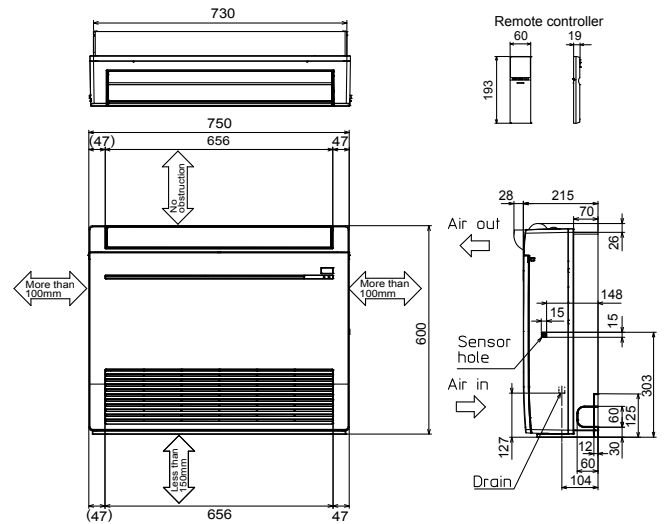
INDOOR UNIT



MSZ-AY25VGK(P) MSZ-AY35VGK(P) MSZ-AY42VGK(P)
MSZ-AY50VGK(P)
INDOOR UNIT

MSZ-AP60VG MSZ-AP71VG
MSZ-AP60VGK MSZ-AP71VGK
INDOOR UNIT

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-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**

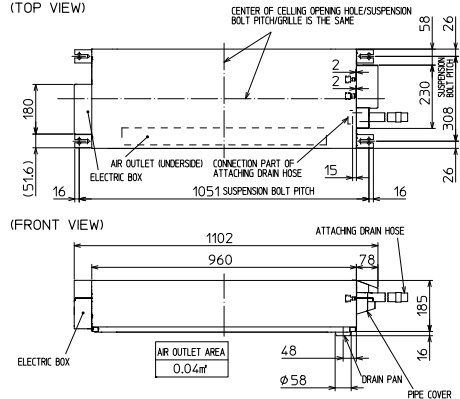
MSZ-DM25VA MSZ-DM35VA
INDOOR UNIT

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


MLZ-KP25VF MLZ-KP35VF MLZ-KP50VF

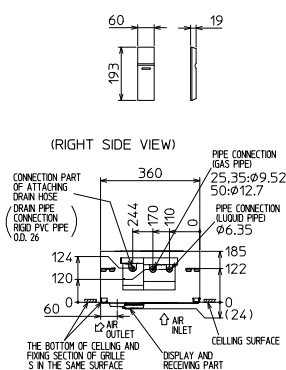
INDOOR UNIT

INDOOR UNIT OUTLINE DRAWING

(TOP VIEW)

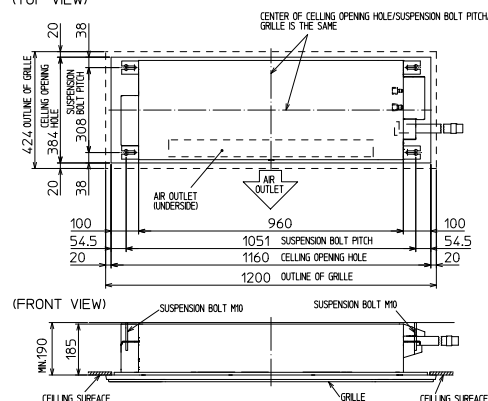


REMOTE CONTROLLER OUTLINE DRAWING



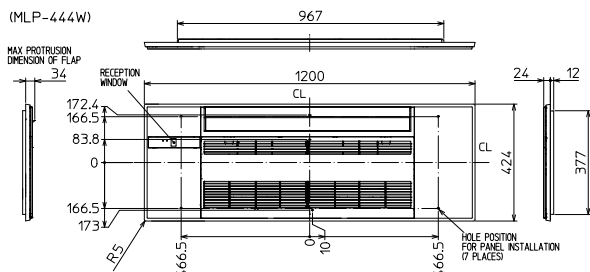
INDOOR UNIT DETAIL VIEW

(TOP VIEW)



GRILLE OUTLINE DRAWING

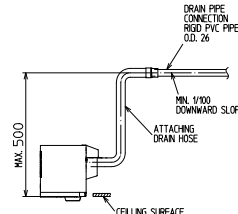
(MLP-444W)



		KP25/35VF	KP50VF
EXTENSION PIPE	LIQUID PIPE O.D.	φ6.35	
	GAS PIPE O.D.	φ9.52	φ12.7
CONNECTIONS OF PIPE	LIQUID PIPE	FLARED CONNECTION φ6.35	
	GAS PIPE	FLARED CONNECTION φ9.52	FLARED CONNECTION φ12.7
DRAIN HOSE		HEAT INSULATOR O.D. CONNECTION I.D. EFFECTIVE LENGTH φ32 φ25 480	
DRAIN PIPE CONNECTION		RIGID PVC PIPE O.D. 26	

NOTE1. CUTTING ATTACHING DRAIN HOSE CAN BE USED.

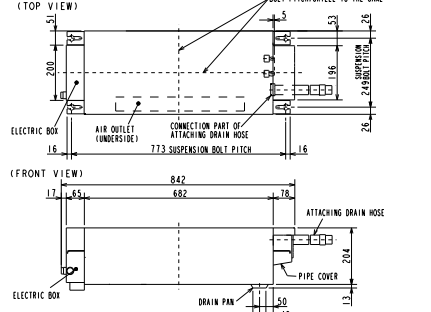
THE METHOD FOR STANDING
DRAIN FROM INDOOR UNIT
※ CUTTING ATTACHING DRAIN
HOSE CAN BE USED

**MLZ-KY20VG**

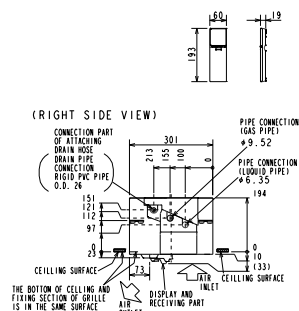
INDOOR UNIT

INDOOR UNIT OUTLINE DRAWING

(TOP VIEW)

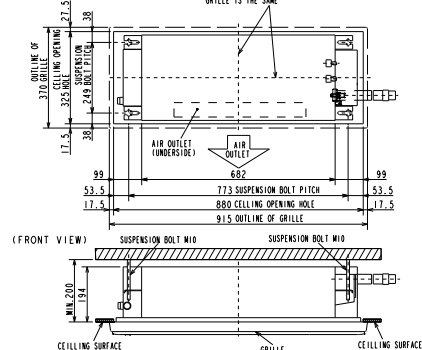


REMOTE CONTROLLER OUTLINE DRAWING



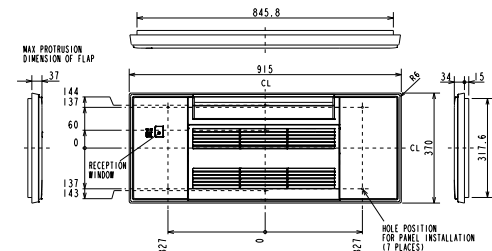
INDOOR UNIT DETAIL VIEW

(TOP VIEW)



GRILLE OUTLINE DRAWING

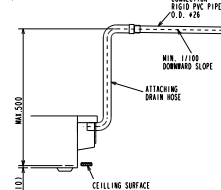
(MLP-448W)



EXTENSION PIPE	LIQUID PIPE O.D.	φ 6.35
	GAS PIPE O.D.	φ 9.52
CONNECTION OF PIPE	LIQUID PIPE	FLARED CONNECTION φ 6.35
	GAS PIPE	FLARED CONNECTION φ 9.52
DRAIN HOSE		HEAT INSULATOR O.D. CONNECTION I.D. EFFECTIVE LENGTH
		φ 32 φ 25 480
DRAIN PIPE CONNECTION		RIGID PVC PIPE O.D. φ 26

NOTE1. CUT THE DRAIN HOSE (ACCESSORY) FOR USE, IF NECESSARY.

THE METHOD FOR STANDING
DRAIN FROM INDOOR UNIT
• CUT THE DRAIN HOSE (ACCESSORY)
FOR USE, IF NECESSARY.



MUZ-LN25VG
MUZ-LN35VG
MUZ-AP20VG
MUZ-AY25VG
MUZ-AY35VG
MUZ-AY42VG
MUZ-FT25VGHZ
MUZ-FH25VE
MUZ-FH25VEHZ
MUZ-EF25VG
MUZ-EF35VG
MUZ-EF42VG
MUZ-SF25VE
MUZ-SF35VEH
MUZ-HJ50VA
MUFZ-KJ25VE
MUFZ-KJ25VEHZ

MUZ-LN25VGHZ
MUZ-LN35VGHZ

MUZ-AY25VGH
MUZ-AY35VGH
MUZ-AY42VGH

MUZ-FH35VE
MUZ-FH35VEHZ
MUZ-EF25VGH
MUZ-EF35VGH
MUY-TP35VF
MUZ-SF25VEH
MUZ-SF42VE

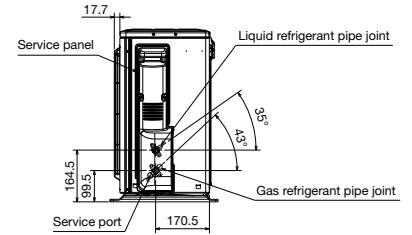
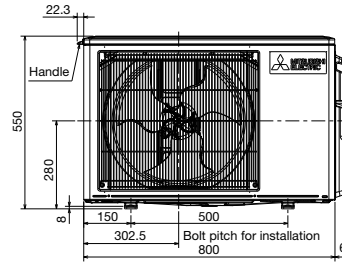
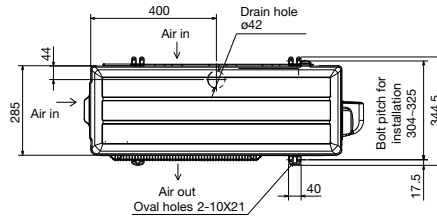
MUFZ-KJ35VE
MUFZ-KJ35VEHZ

MUZ-HR42VF
MUZ-HR50VF
MUZ-DW50VF

MUY-TP50VF
MUZ-SF35VE
MUZ-SF42VEH

MUZ-BT50VG

OUTDOOR UNIT

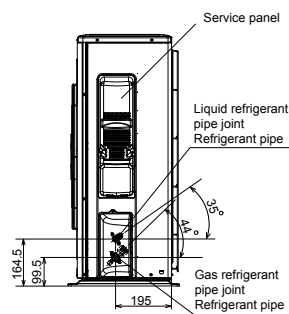
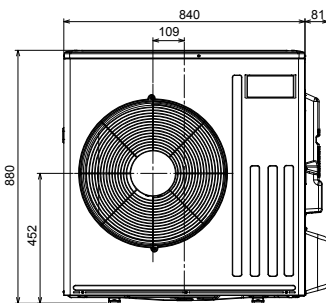
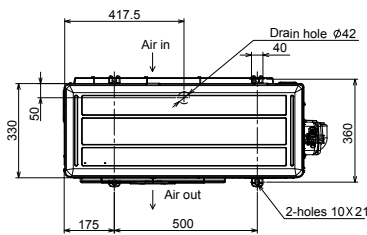


MUZ-FH50VE
MUZ-SF50VE
MUZ-GF60VE
MUZ-HJ60VA
MUFZ-KJ50VE

MUZ-FH50VEHZ
MUZ-SF50VEH
MUZ-GF71VE
MUZ-HJ71VA
MUFZ-KJ50VEHZ

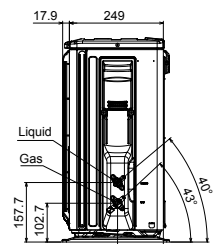
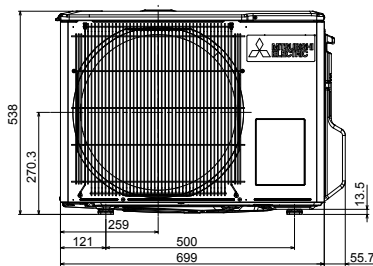
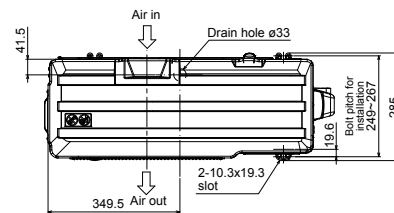
MUZ-AP71VG

OUTDOOR UNIT



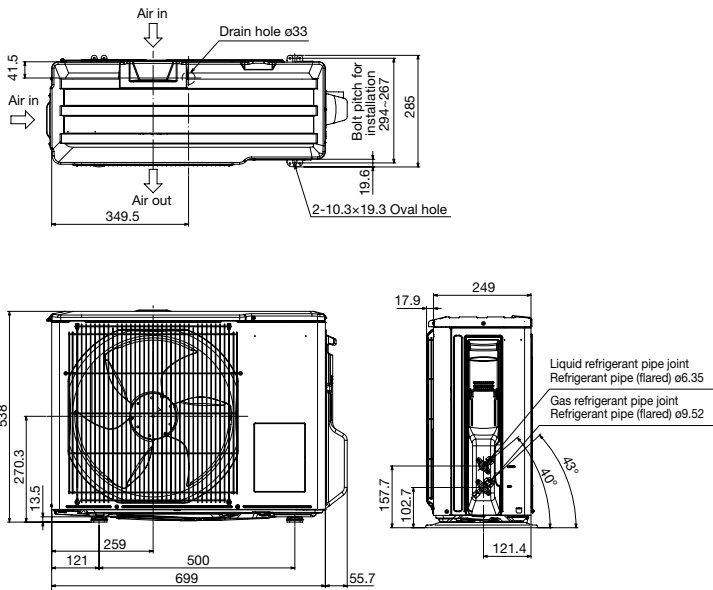
MUZ-AP15VG MUZ-BT20VG

OUTDOOR UNIT



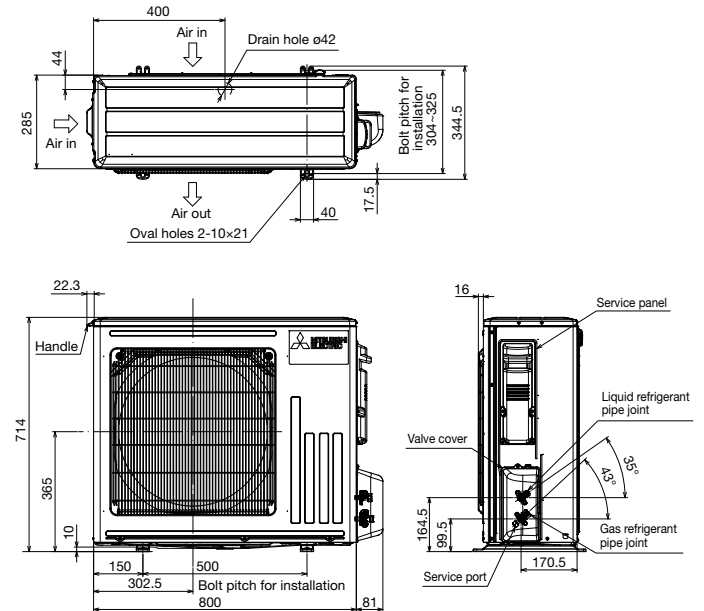
MUZ-WN25VA MUZ-WN35VA MUZ-HR25VF MUZ-BT25VG
MUZ-DM25VA MUZ-DM35VA MUZ-HR35VF MUZ-BT35VG
MUZ-HJ25VA MUZ-HJ35VA
MUZ-DW25VF MUZ-DW35VF

OUTDOOR UNIT



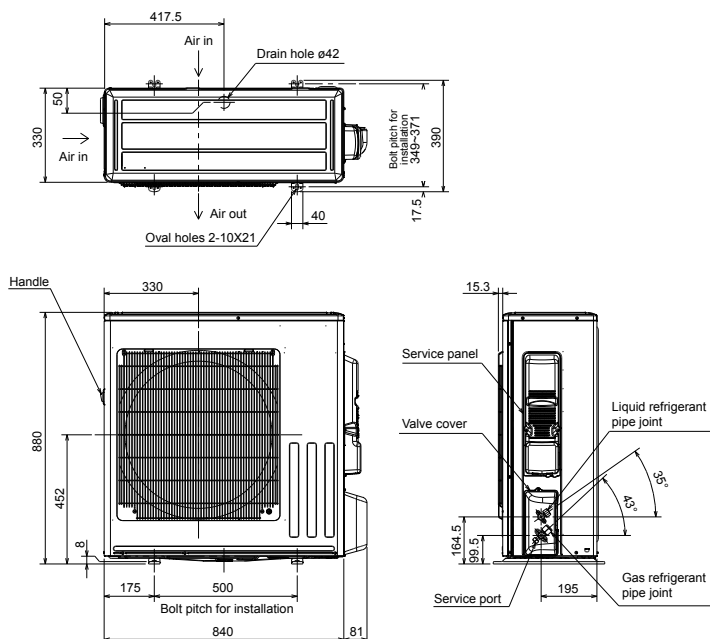
MUZ-RW25VGHZ MUZ-RW35VGHZ
MUZ-LN50VG
MUZ-FT35/50VGHZ
MUZ-AP50VG MUZ-AP50VGH MUZ-AP60VG
MUZ-EF50VG
MUZ-HR60VF MUZ-HR71VF

OUTDOOR UNIT



MUZ-RW50VGHZ
MUZ-LN60VG2
MUZ-LN50VGHZ2

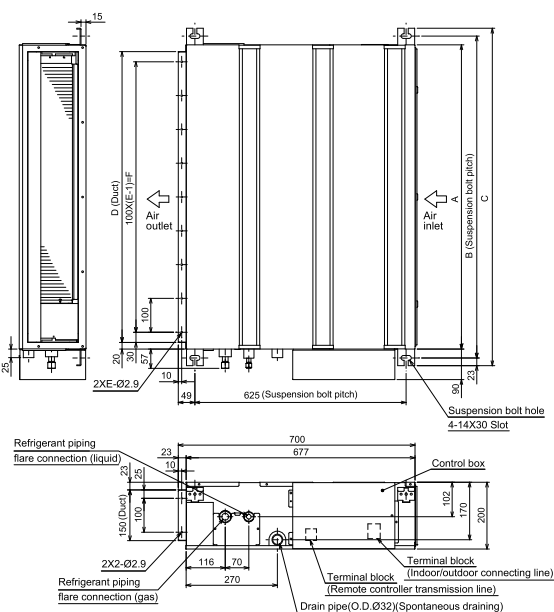
OUTDOOR UNIT



INDOOR UNIT

Models	① Refrigerant pipe (liquid)	② Refrigerant pipe (gas)	A	B
SLZ-M15FA2	φ 6.35mm flared connection 1/4F	φ 9.52mm flared connection 3/8F	63mm	72mm
SLZ-M25FA2				
SLZ-M35FA2				
SLZ-M50FA2	φ 6.35mm flared connection 1/4F	φ 12.7mm flared connection 1/2F	63mm	78mm
SLZ-M60FA2	φ 6.35mm flared connection 1/4F	φ 15.88mm flared connection 5/8F	63mm	78mm

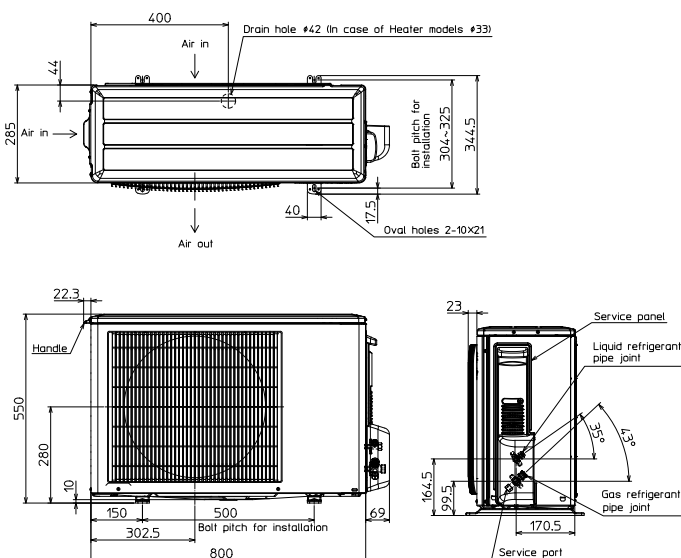
INDOOR UNIT



INDOOR UNIT

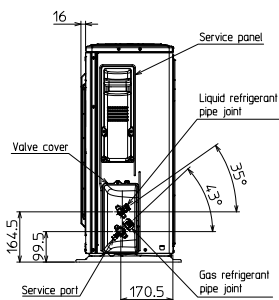
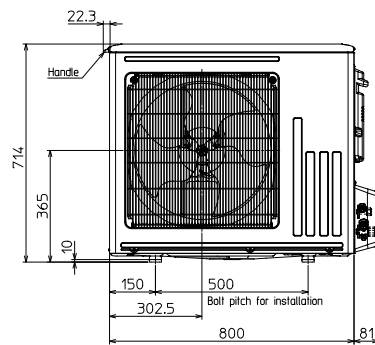
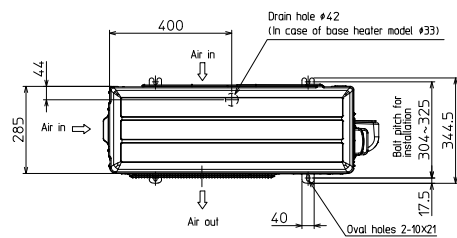
MODEL	A	B	C	D	E	F	G	H	J	①Gas pipe	②Liquid pipe
SFZ-M25VA	700	756	802	660	7	600	50	55	848	ø9.52	ø6.35
SFZ-M35VA	900	956	1002	860	9	800	50	55	1048	ø9.52	ø6.35
SFZ-M50VA	900	956	1002	860	9	800	50	61	1048	ø12.7	ø6.35
SFZ-M60VA	1100	1156	1202	1060	11	1000	50	66	1248	ø15.88	ø6.35
SFZ-M71VA	1100	1156	1202	1060	11	1000	55	66	1248	ø15.88	ø9.52

OUTDOOR UNIT



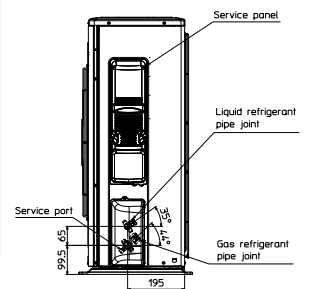
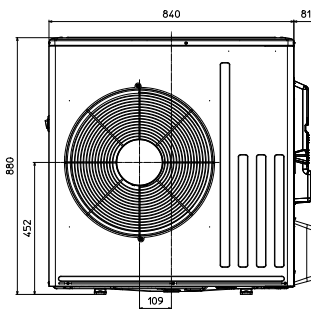
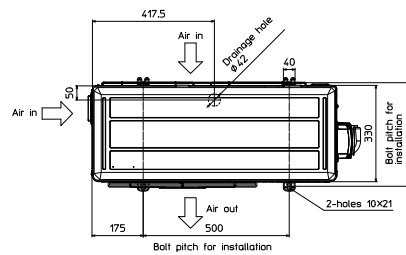
SUZ-M50VA

OUTDOOR UNIT



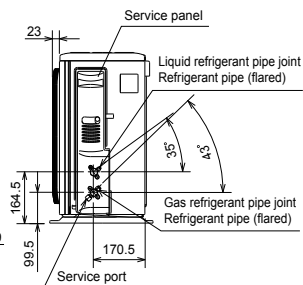
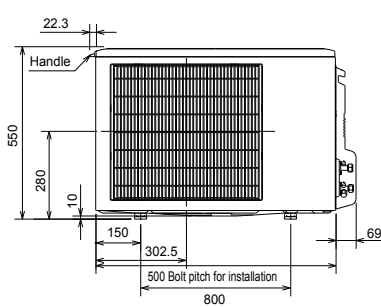
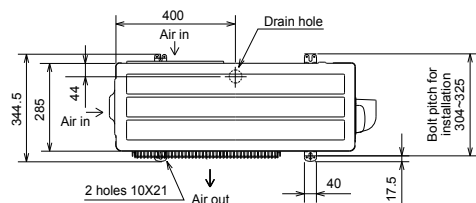
SUZ-M60VA SUZ-M71VA

OUTDOOR UNIT



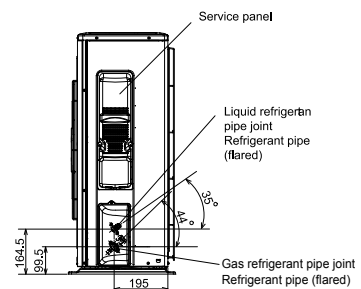
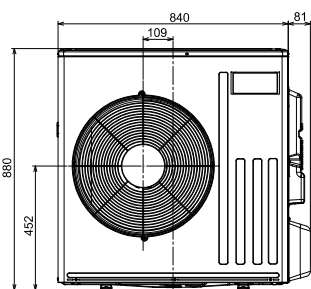
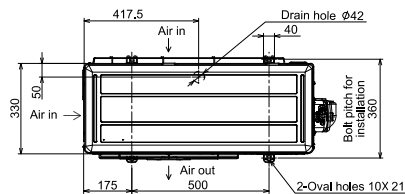
SUZ-KA25VA6 SUZ-KA35VA6

OUTDOOR UNIT



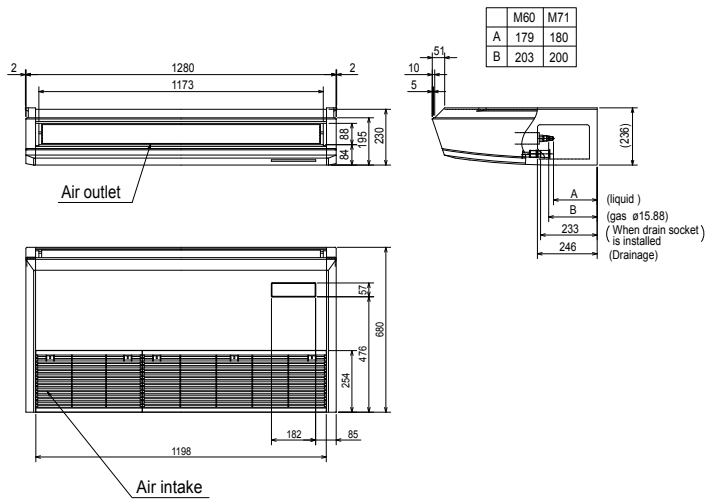
SUZ-KA50VA6 SUZ-KA60VA6 SUZ-KA71VA6

OUTDOOR UNIT



PCA-M60KA2 PCA-M71KA2

INDOOR UNIT



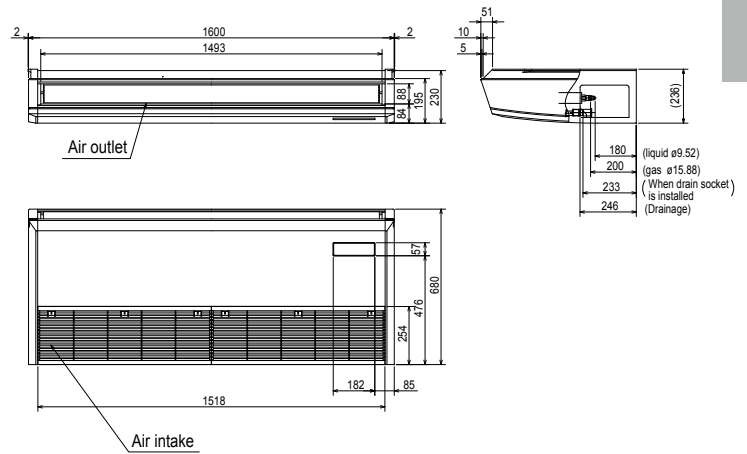
NOTES.

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

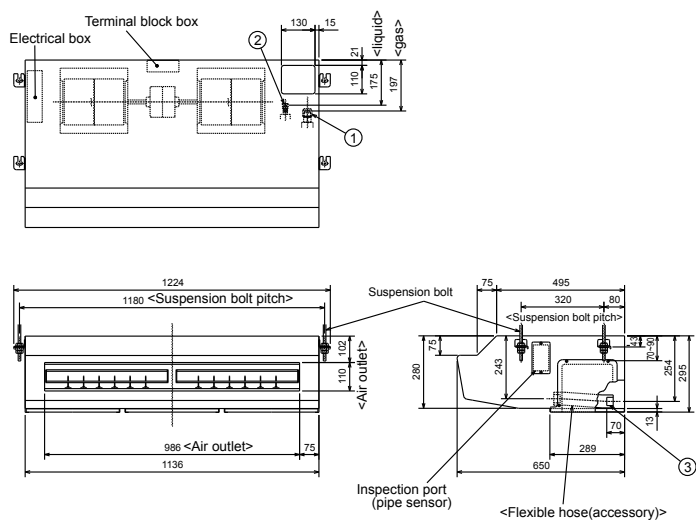


NOTES.

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

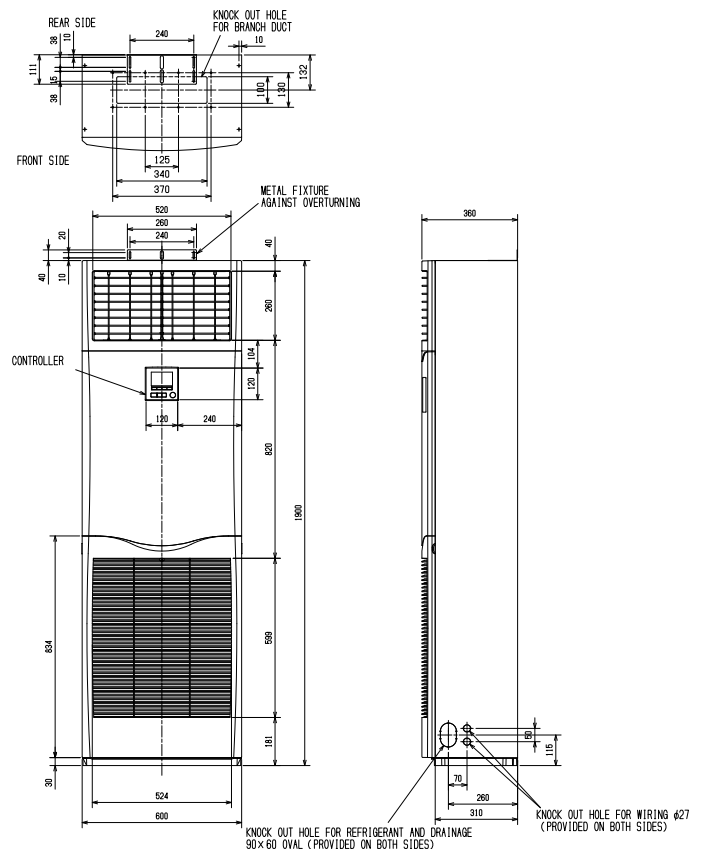
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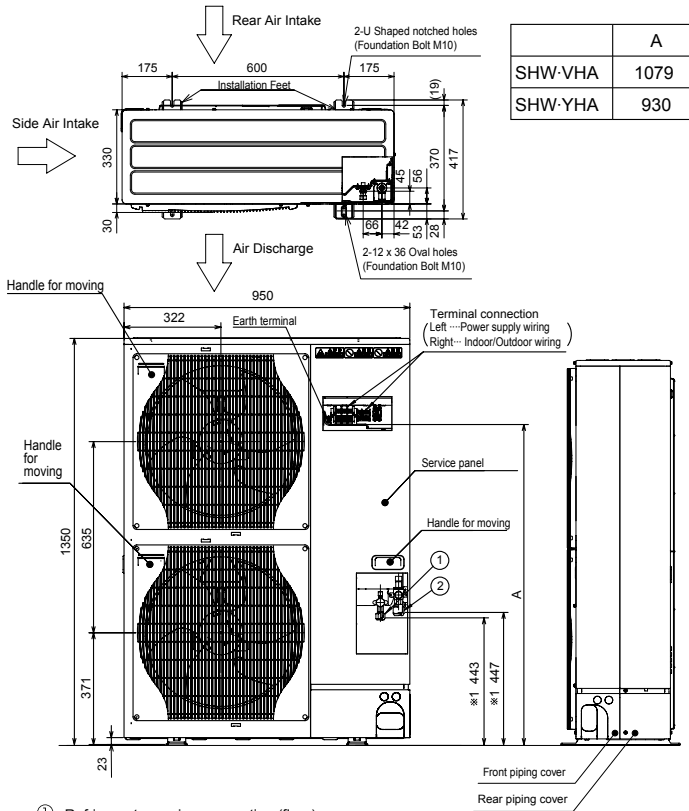


- ① Refrigerant pipe connection(gas pipe side/flared connection)
- ② Refrigerant pipe connection(liquid pipe side/flared connection)
- ③ Flexible hose(accessory) → Drainage pipe connection

PSA-M71KA PSA-M100KA PSA-M125KA PSA-M140KA

INDOOR UNIT

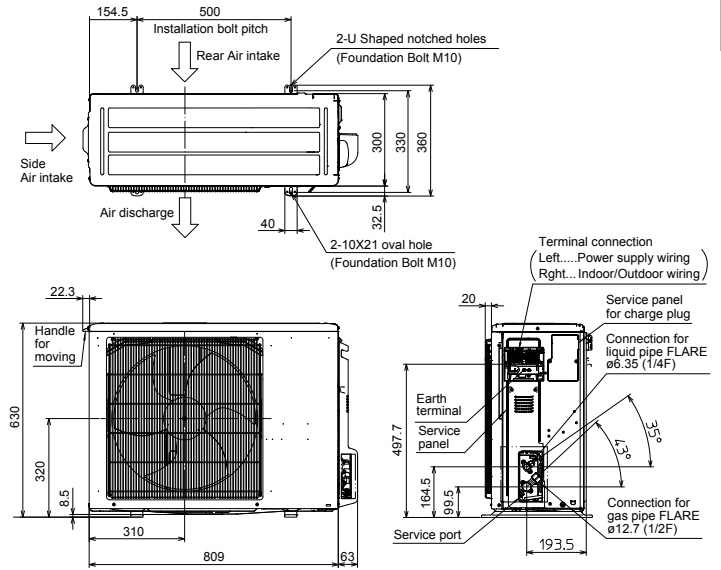
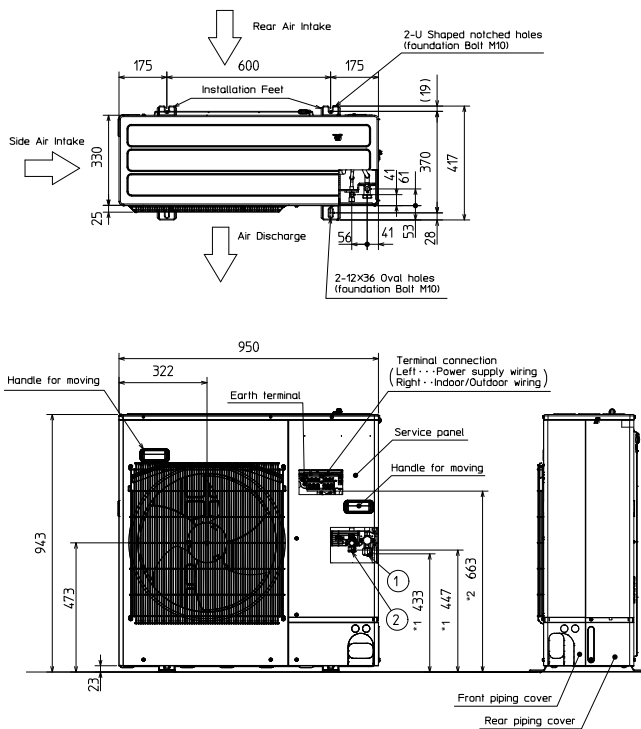


**PUHZ-SHW112VHA PUHZ-SHW112YHA
PUHZ-SHW140YHA**
OUTDOOR UNIT


①...Refrigerant gas pipe connection (flare)

②...Refrigerant liquid pipe connection (flare)

*...Indicates stop valve connection location.

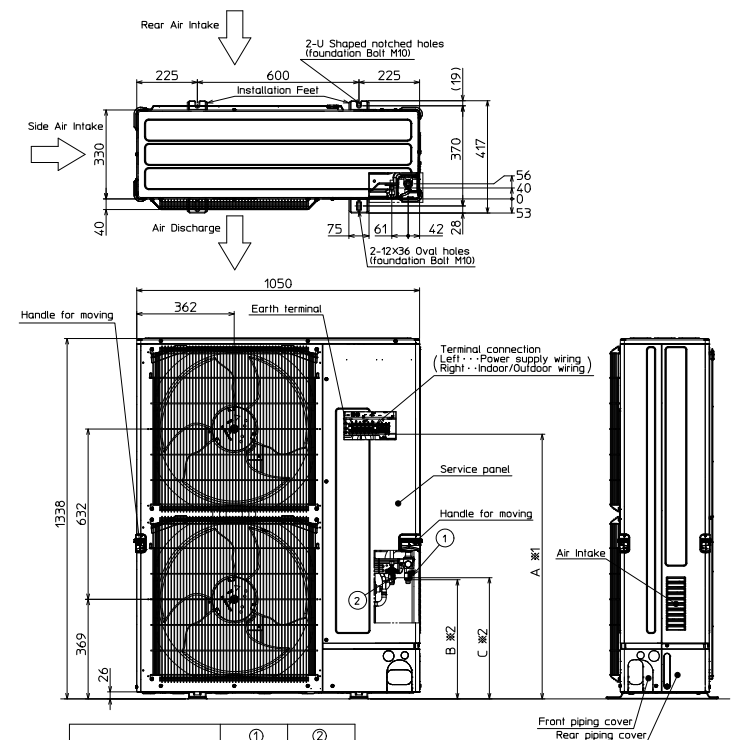
PUZ-ZM35VKA2 PUZ-ZM50VKA2
OUTDOOR UNIT

PUZ-ZM60VHA2 PUZ-ZM71VHA2
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.

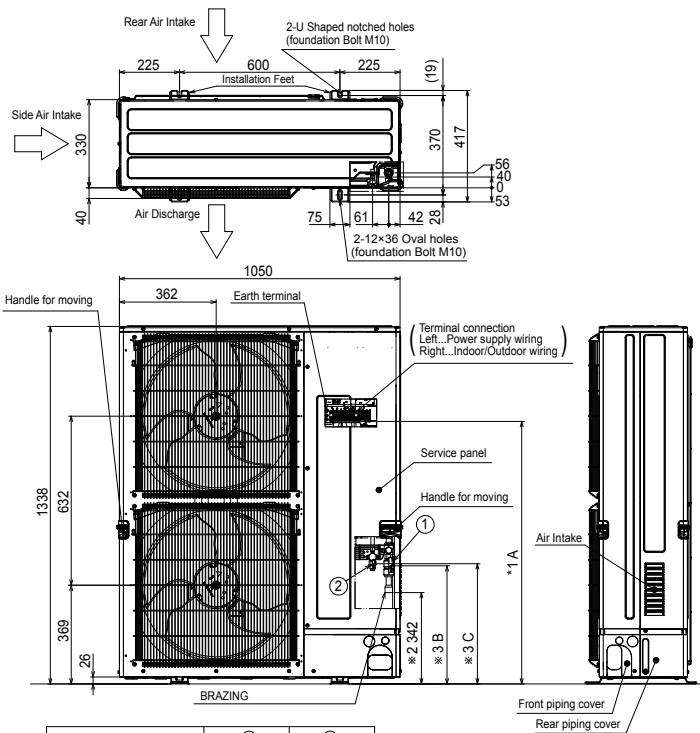
*2...Indication of Terminal connection location.

**PUZ-ZM100VKA2 PUZ-ZM125VKA2 PUZ-ZM140VKA2
PUZ-ZM100YKA2 PUZ-ZM125YKA2 PUZ-ZM140YKA2**
OUTDOOR UNIT


Model	① Refrigerant GAS pipe connection	② Refrigerant LIQUID pipe connection
PUZ-ZM100-140V/YKA,JK	ø15.88 (5/8F)	ø9.52 (3/8F)

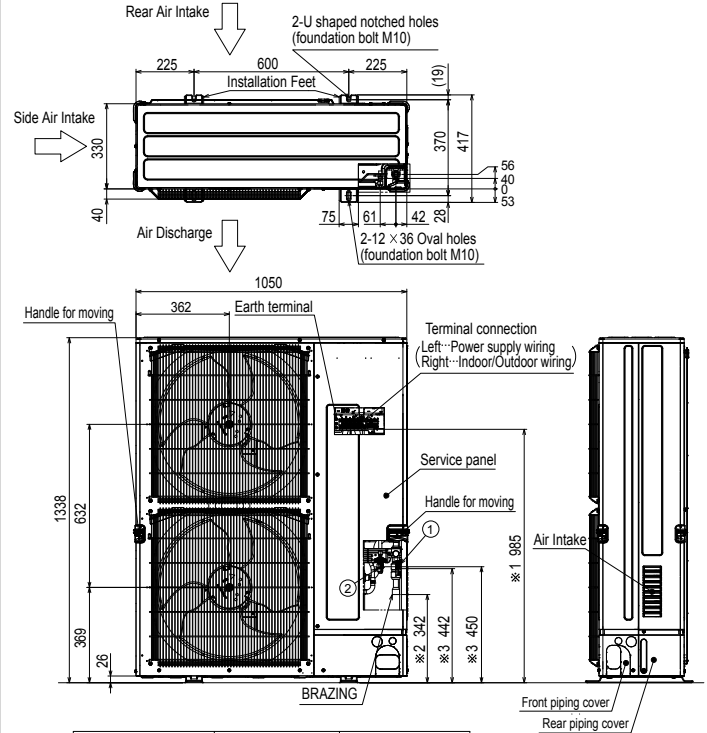
Model	A	B	C
PUZ-ZM100-140VKA,JK	1067	442	450
PUZ-ZM100-140YKA,JK	919	442	450

*1...Indication of Terminal connection location.
*2...Indication of STOP VALVE connection location.

PUZ-ZM200YKA2 PUHZ-ZM250YKA2**OUTDOOR UNIT**

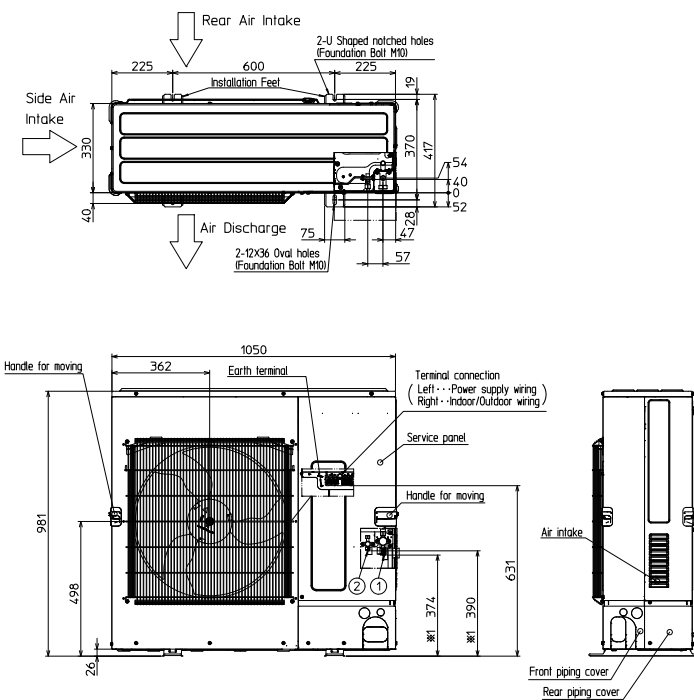
Model	① Refrigerant GAS pipe connection	② Refrigerant LIQUID pipe connection
PUZ-ZMM200YKA.UK	ø19.05 (3/4F)	ø9.52 (3/8F)
PUZ-ZMM250YKA.UK	ø19.05 (3/4F)	ø12.7 (1/2F)

Model	A	B	C	
PUZ-ZMM200,250YKA.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.

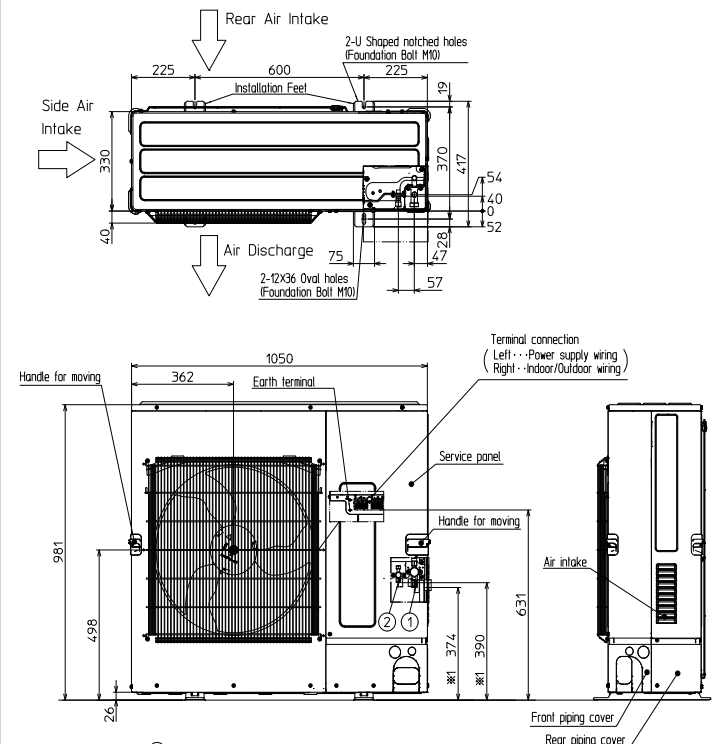
PUHZ-ZRP200YKA3 PUHZ-ZRP250YKA3**OUTDOOR UNIT**

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)

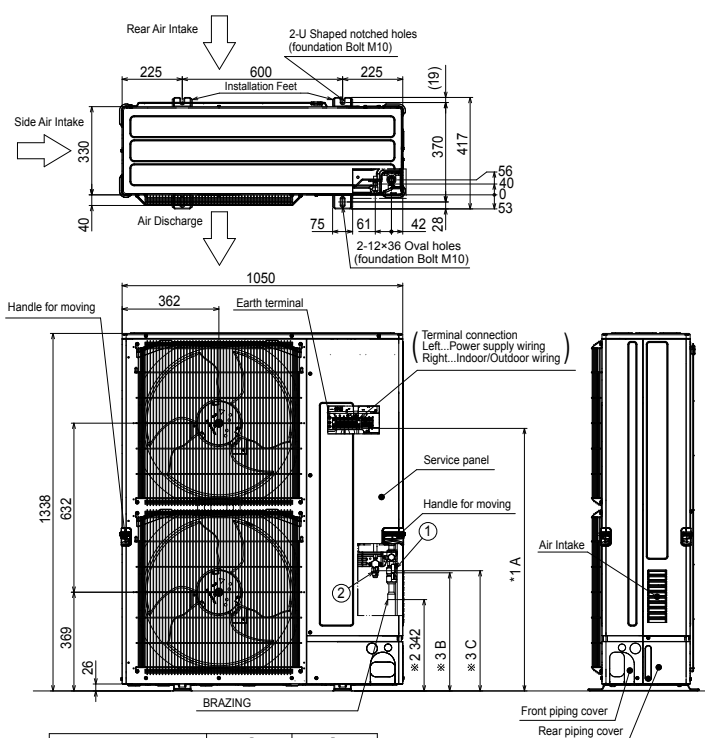
※1...Indication of Terminal connection location.
 ※2...Refrigerant GAS pipe connection (BRAZING) O.D.ø25.4.
 ※3...Indication of STOP VALVE connection location.

**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**

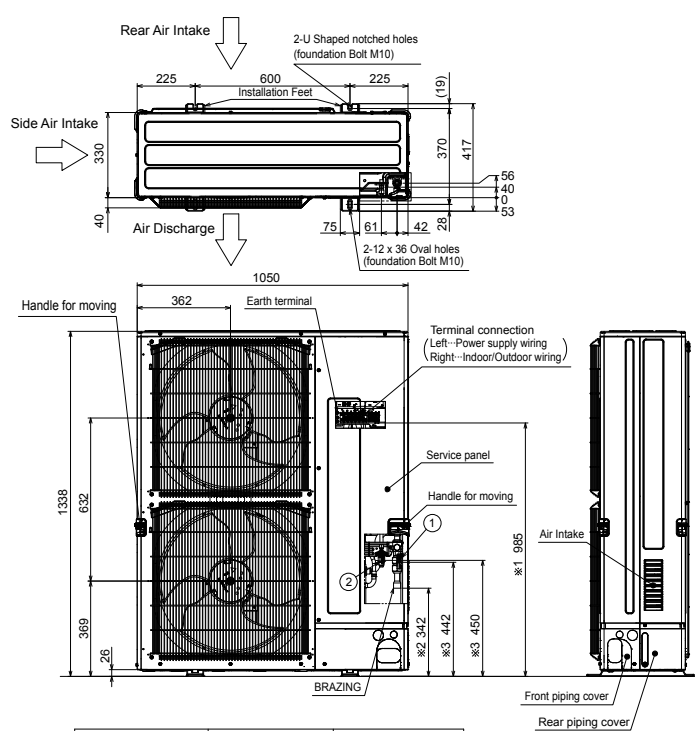
- ①...Refrigerant GAS pipe connection (FLARE) ø15.88 (5/8F)
 ②...Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
 ※1...Indication of STOP VALVE connection location.

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**

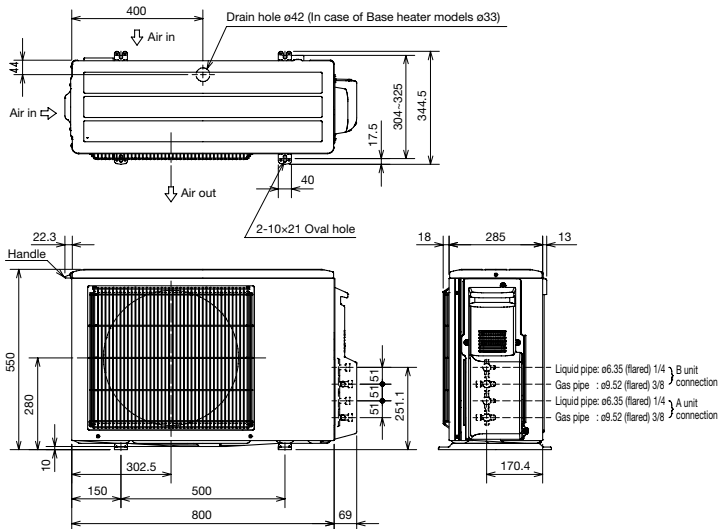
Model	① Refrigerant GAS pipe connection	② Refrigerant LIQUID pipe connection
PUHZ-P200YKA3	ø19.05 (3/4F)	ø9.52 (3/8F)
PUHZ-P250YKA3	ø19.05 (3/4F)	ø12.7 (1/2F)

*1--Indication of Terminal connection location.
 *2--Refrigerant GAS pipe connection (BRAZING) O.D.ø25.4.
 *3--Indication of STOP VALVE connection location.

MXZ SERIES

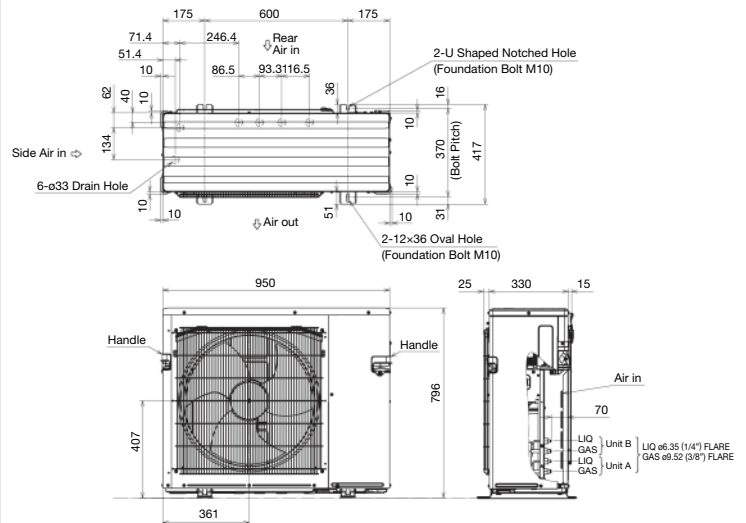
MXZ-2D33VA MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2
MXZ-2DM40VA MXZ-2HA40VF2 MXZ-2HA50VF2
MXZ-2F33VF4 MXZ-2F42VF4 MXZ-2F53VF4 MXZ-2F53VFH4

OUTDOOR UNIT



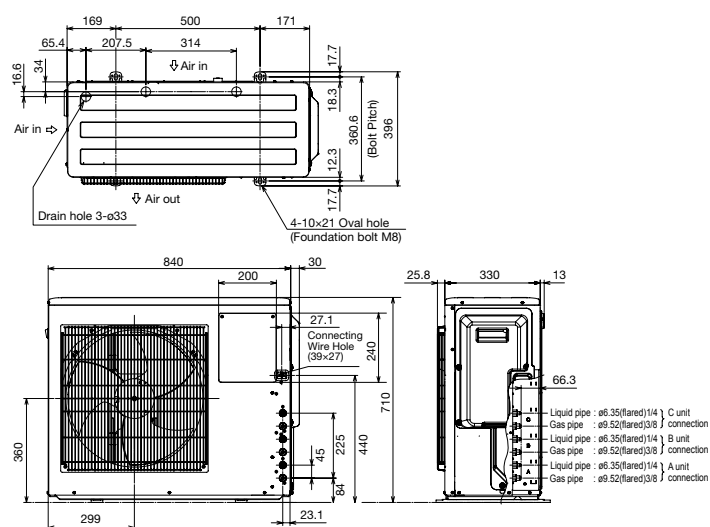
MXZ-2E53VAHZ MXZ-2F53VFH2Z

OUTDOOR UNIT



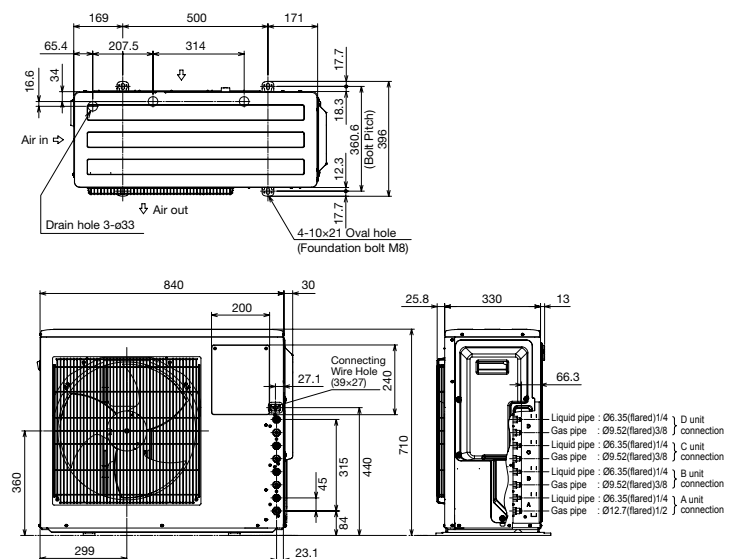
MXZ-3E54VA MXZ-3E68VA
MXZ-3DM50VA MXZ-3HA50VF2
MXZ-3F54VF4 MXZ-3F68VF4

OUTDOOR UNIT

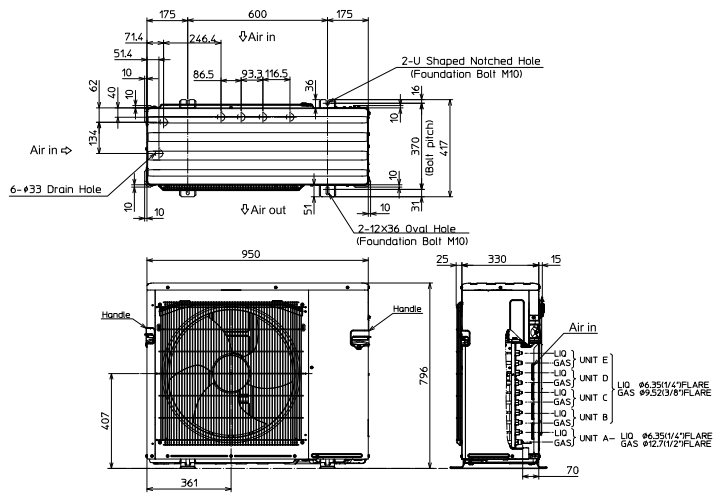


MXZ-4E72VA
MXZ-4F72VF4 MXZ-4F80VF4

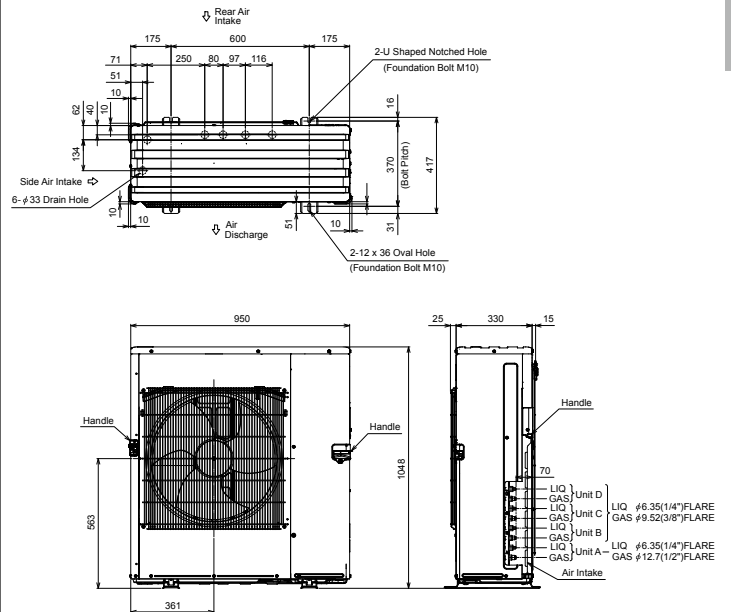
OUTDOOR UNIT



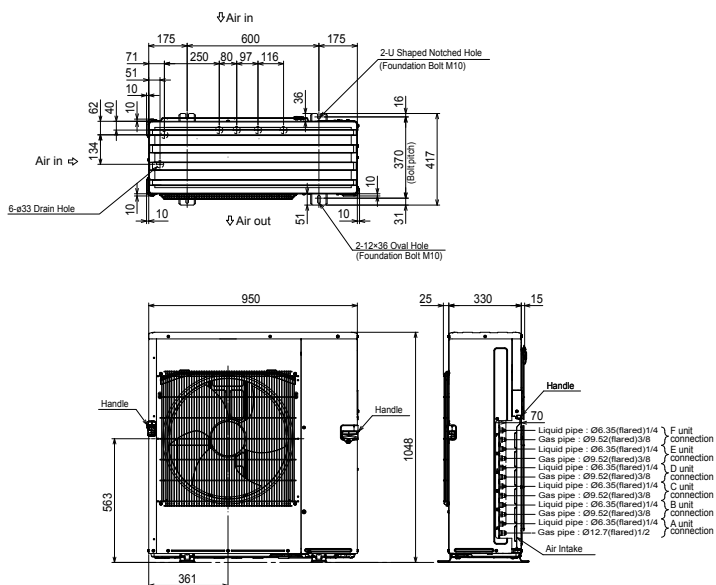
OUTDOOR UNIT



OUTDOOR UNIT

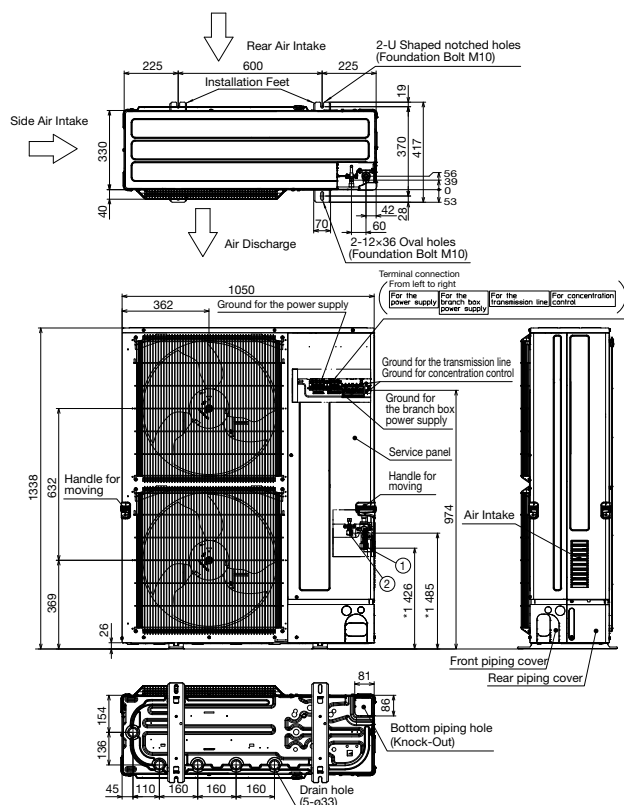


OUTDOOR UNIT



PUMY-P112/125/140VKM6(-BS)

OUTDOOR UNIT

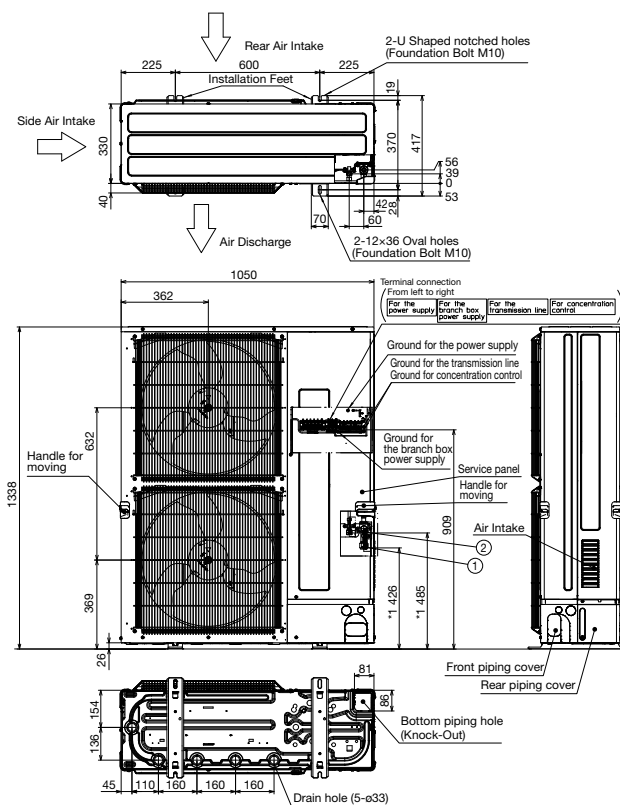


Example of Notes

- 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-P112/125/140YKM5(-BS)

OUTDOOR UNIT

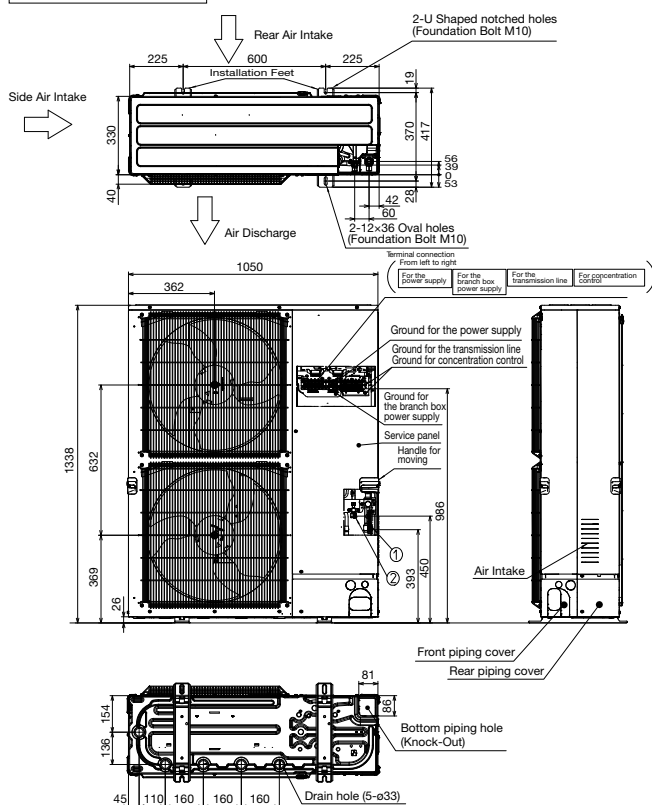


Example of Notes

- 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-P200YKM3(-BS)

OUTDOOR UNIT

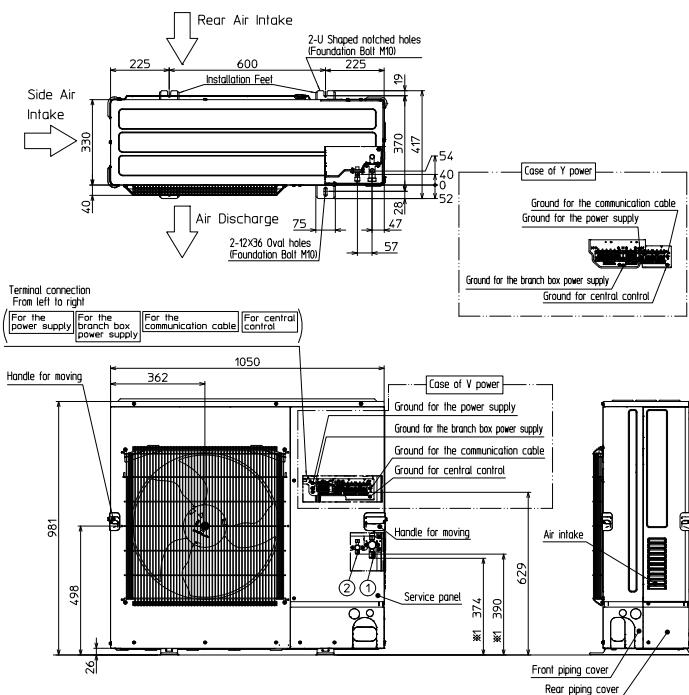


Example of Notes

- 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-SP112/125/140VKM2(-BS) PUMY-SP112/125/140YKM2(-BS)

OUTDOOR UNIT



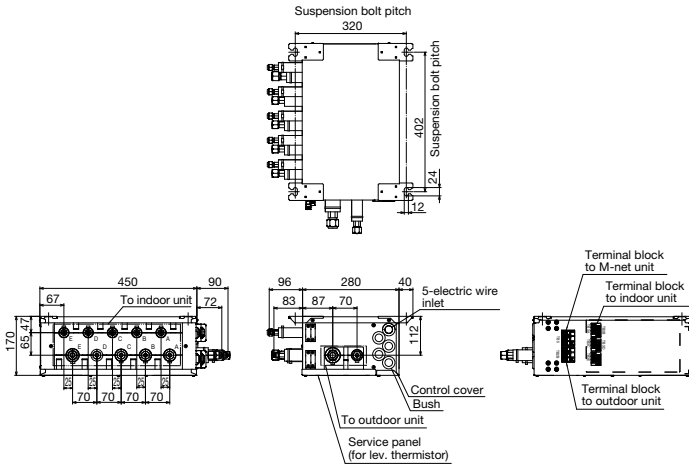
Example of Notes

- 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)

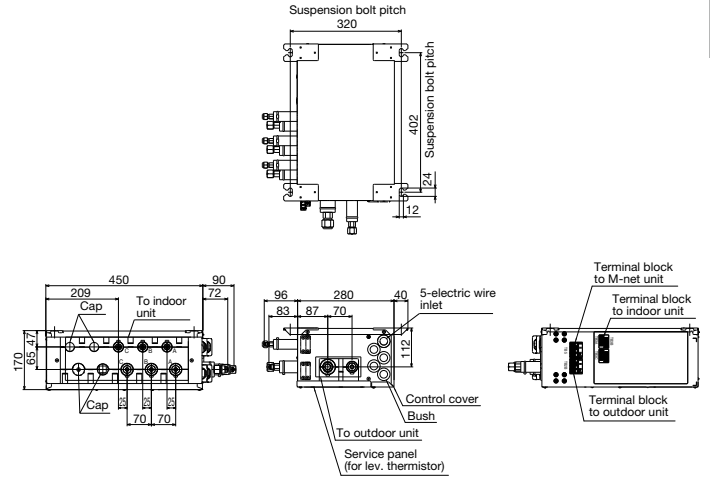
Refrigerant pipe flared connection

	A	B	C	D	E	To outdoor unit
Liquid pipe	ø6.35	ø6.35	ø6.35	ø6.35	ø6.35	ø9.52
Gas pipe	ø9.52	ø9.52	ø9.52	ø9.52	ø12.7	ø15.88

PAC-MK34BC

Suspension bolt: W3/W8 (M10)

Branch box



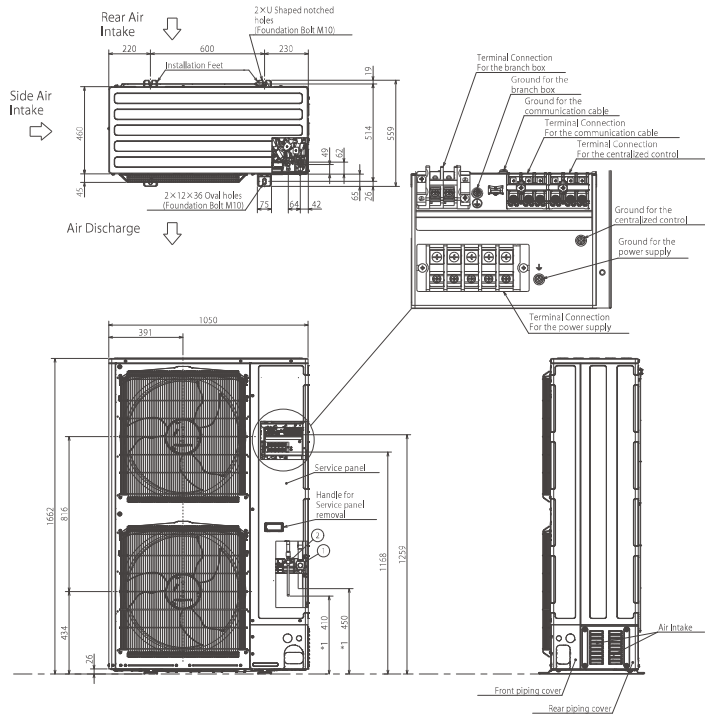
Suspension bolt : W3/8(M10)

Refrigerant pipe flared connection

	A	B	C		To outdoor unit
Liquid pipe	ø6.35	ø6.35	ø6.35		ø9.52
Gas pipe	ø9.52	ø9.52	ø9.52		ø15.88

PUMY-P250YBM2(-BS) PUMY-P300YBM2(-BS)

OUTDOOR UNIT



Example of Notes

- . . . Refrigerant GAS pipe connection ø22.2(7/8")
- . . . Refrigerant LIQUID pipe connection ø9.52(3/8")
- *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

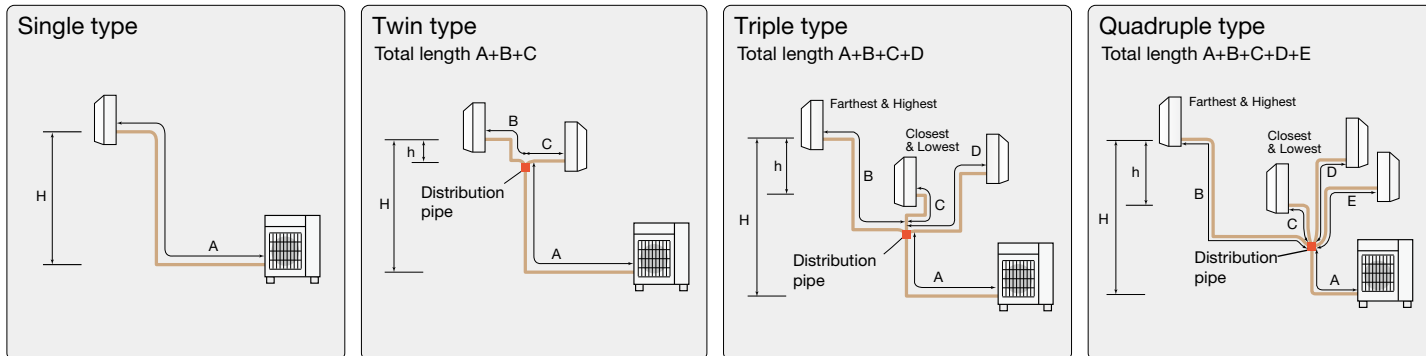
Series	Class < Outdoor unit >	Maximum Piping Length (m)			Maximum Height Difference (m)			Maximum Number of Bends
		Total length A+B+C	Pipe length difference from distribution pipe [B-C]	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number	
ZUBADAN (PUHZ-SHW)	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	



MXZ SERIES

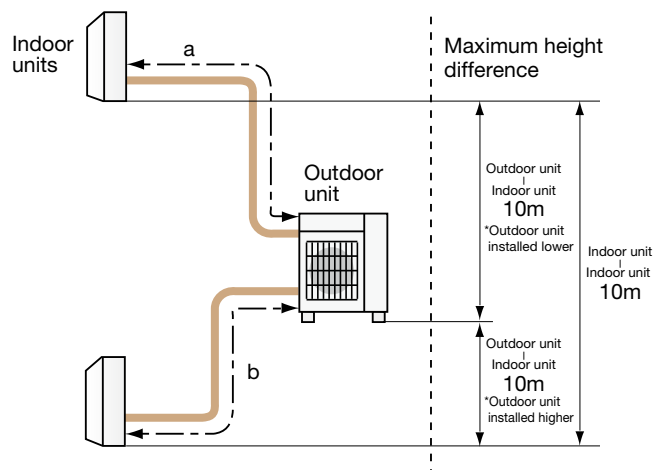
MXZ-2D33VA, MXZ-2F33VF4

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-2F42VF4

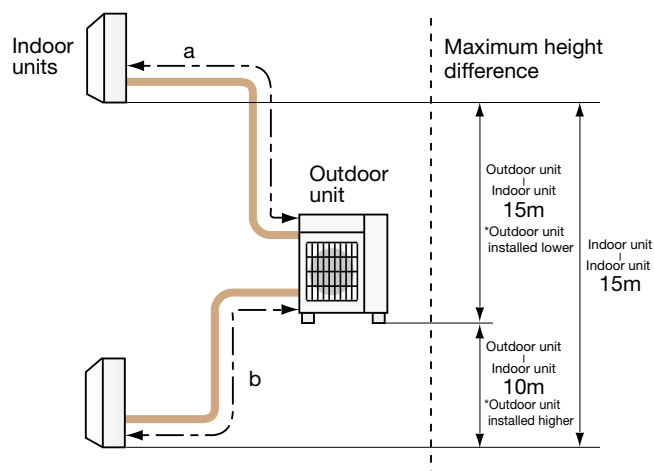
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	20m
Total length (a+b)	30m

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)4

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



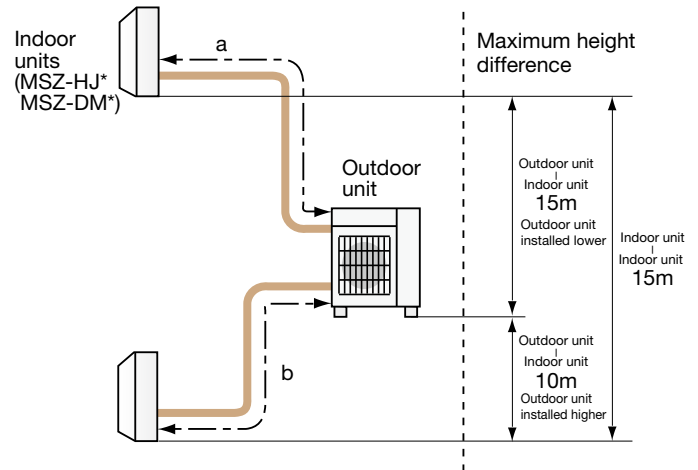
* When connecting MFZ-KJ Series indoor unit to MXZ-2D42VA2 or MXZ-2D53VA(H)2, additional refrigerant is required. For details, please contact Mitsubishi Electric.

MXZ SERIES

MXZ-2DM40VA, MXZ-2HA40VF2, MXZ-2HA50VF2

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

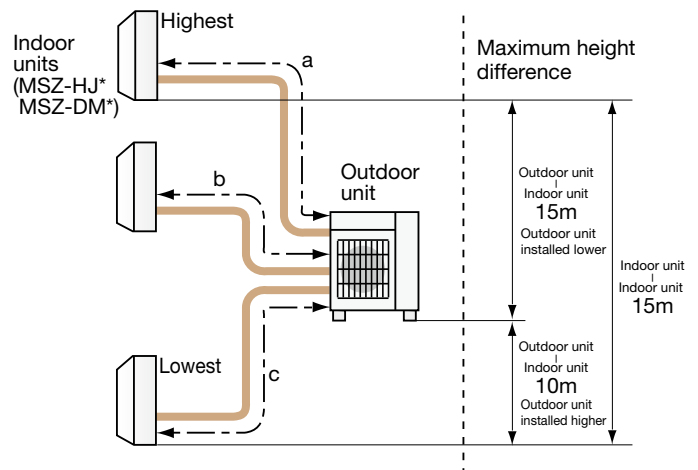


* Only MSZ-HJ and DM model is connectable.

MXZ-3DM50VA, MXZ-3HA50VF2

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

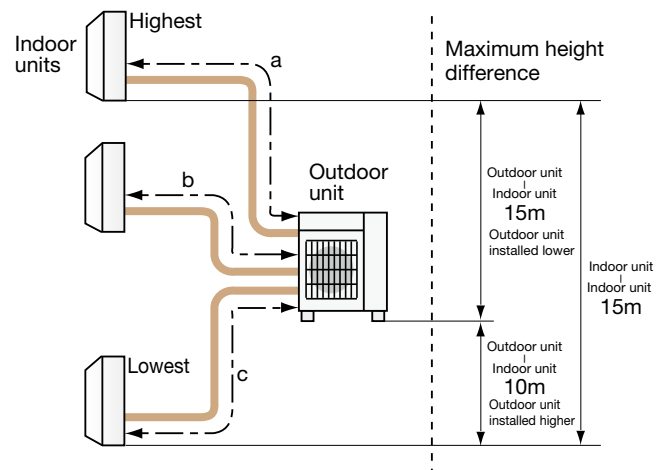


* Only MSZ-HJ and DM model is connectable.

MXZ-3E54VA, MXZ-3F54VF4

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	25m
Total length (a+b+c+d)	50m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	50



MXZ-4E72VA, MXZ-3F68VF4, MXZ-4F72VF4, MXZ-4F80VF4

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	25m
Total length (a+b+c+d)	60m

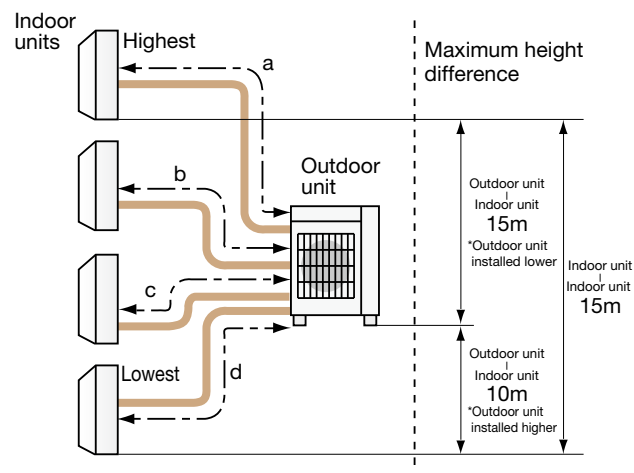
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	60

* When connecting MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please contact Mitsubishi Electric.

MXZ-4E83VA, MXZ-4E83VAHZ, MXZ-4F83VF2

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	25m
Total length (a+b+c+d)	70m

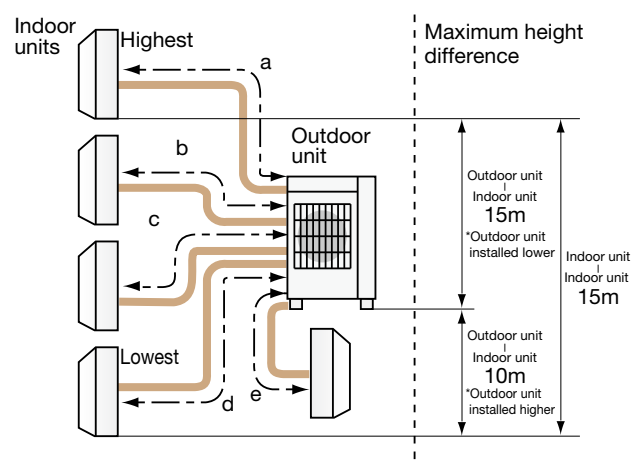
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	70



MXZ-5E102VA, MXZ-5F102VF2

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d,e)	25m
Total length (a+b+c+d+e)	80m

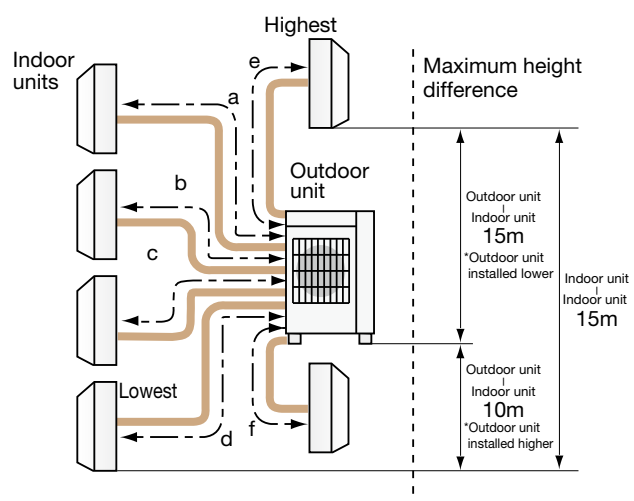
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d,e)	25
Total number (a+b+c+d+e)	80



MXZ-6D122VA2, MXZ-6F120VF2

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d,e,f)	25m
Total length (a+b+c+d+e+f)	80m

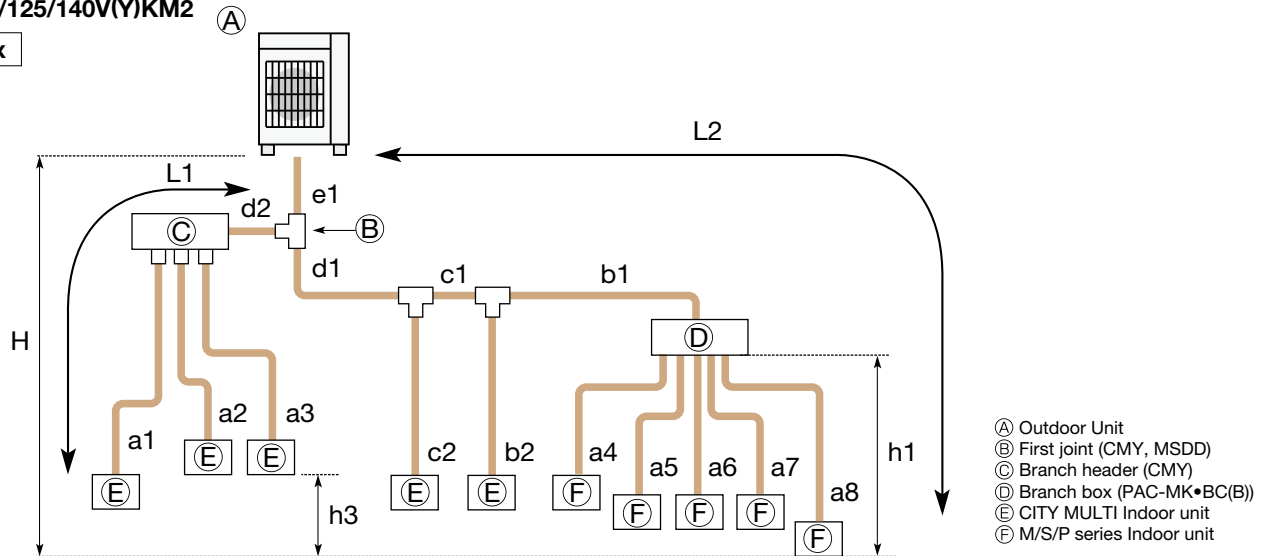
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d,e,f)	25
Total number (a+b+c+d+e+f)	80



PUMY SERIES

PUMY-SP112/125/140V(Y)KM2

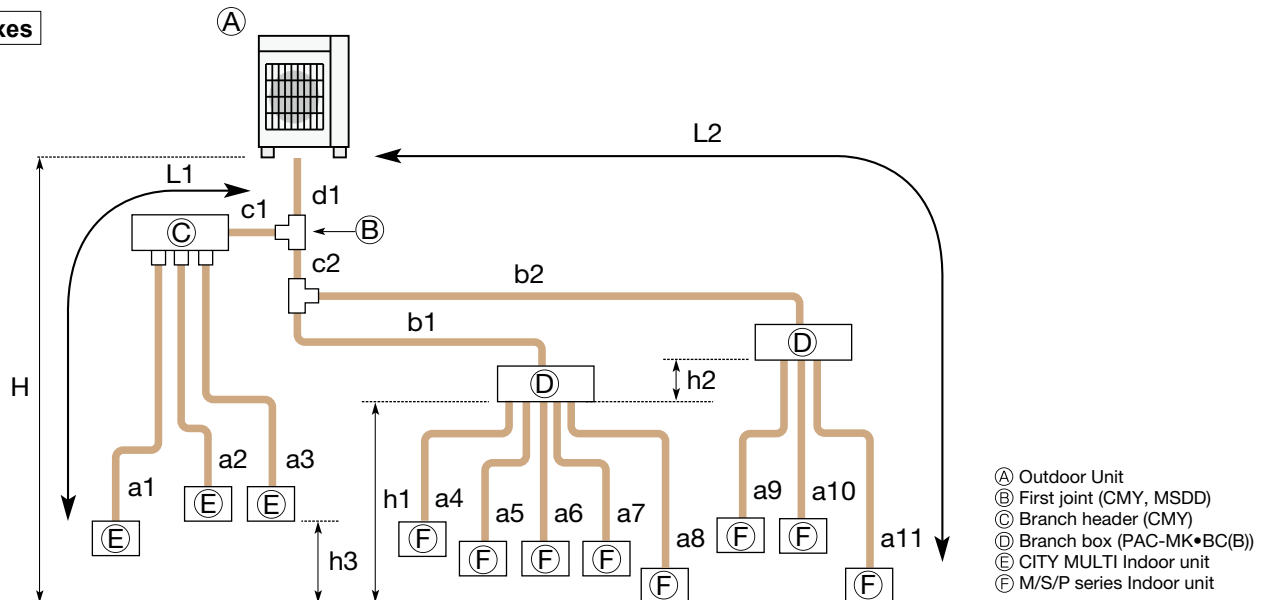
1-Branch box



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)	$e1 + d1 + c1 + b1 + a8 \leq 80 \text{ m}$
	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 $d1 + c1 + b2 \leq 50 \text{ m}$
	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	$ e1 + d2 + a1 , e1 + d2 + a2 , e1 + d2 + a3 , e1 + d1 + c2 , e1 + d1 + c1 + b2 , e1 + d1 + c1 + b1 + a4 , e1 + d1 + c1 + b1 + a5 , e1 + d1 + c1 + b1 + a6 , e1 + d1 + c1 + b1 + a7 , e1 + 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

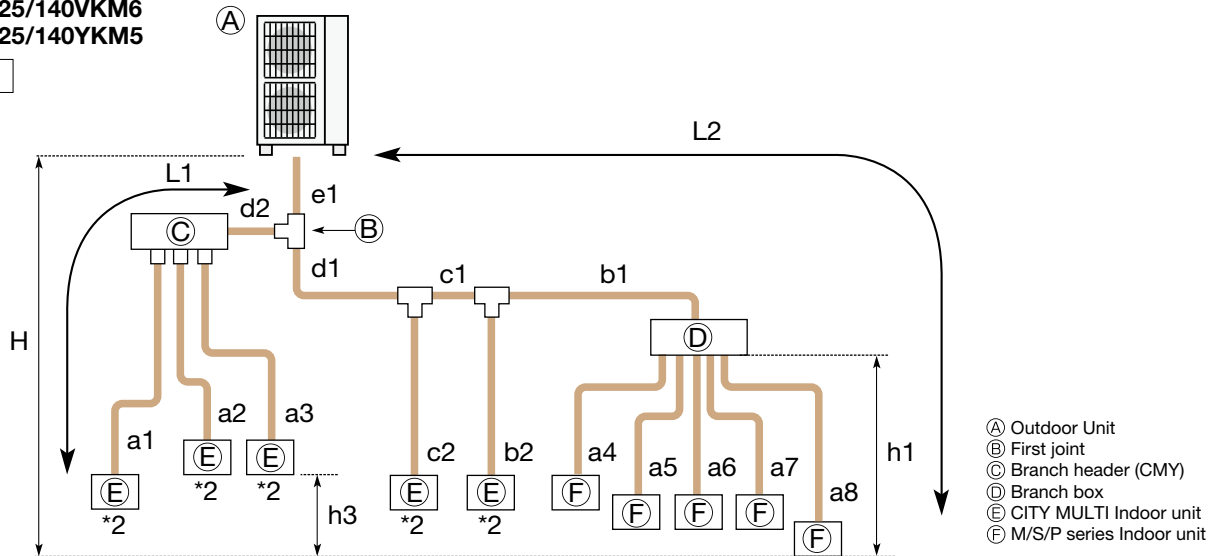


Permissible length (One-way)	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \leq 120 \text{ m}$
	Farthest piping length (L1)	$d1 + c1 + a1 \leq 70 \text{ m}$
	Farthest piping length. Via Branch box (L2)	$d1 + c2 + b2 + a11 \leq 80 \text{ m}$
	Piping 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	$a11 \leq 25 \text{ m}$
	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) $H \leq 30 \text{ m}$ (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)	$h2 \leq 15 \text{ m}$
	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 + b1 + a9 , d1 + c2 + b2 + a10 , d1 + c2 + b2 + a11 \leq 15$

*1: Branch box should be placed within the level between the outdoor unit and indoor units.

PUMY-P112/125/140VKM6
PUMY-P112/125/140YKM5

1-Branch box

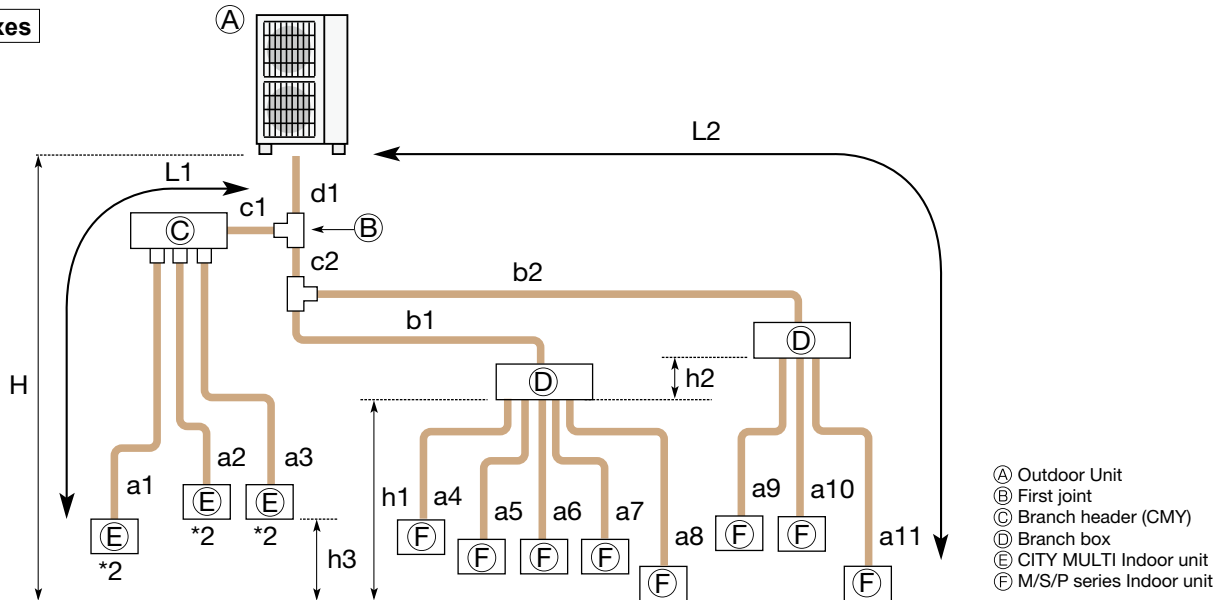


Permissible length (One-way)	Total piping length	$e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \leq 300 \text{ m}$
	Farthest piping length (L1)	$e1 + d2 + a1 \text{ or } e1 + d1 + c1 + b2 \leq 85 \text{ m}$
	Farthest piping length. Via Branch box (L2)	$e1 + d1 + c1 + b1 + a8 \leq 80 \text{ m}$
	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	$ e1 + d2 + a1 , e1 + d2 + a2 , e1 + d2 + a3 , e1 + d1 + c2 , e1 + d1 + c1 + b2 , e1 + d1 + c1 + b1 + a4 , e1 + d1 + c1 + b1 + a5 , e1 + d1 + c1 + b1 + a6 , e1 + d1 + c1 + b1 + a7 , e1 + d1 + c1 + b1 + a8 \leq 15$

*1: Branch box should be placed within the level between the outdoor unit and indoor units.

2: PKFY-P-VBM, PKFY-P10-32VLM, PFFY-P-VKM, PFFY-P-VCM, and PFFY-P-VL type indoor units cannot be used in a mixed system.

2-Branch boxes



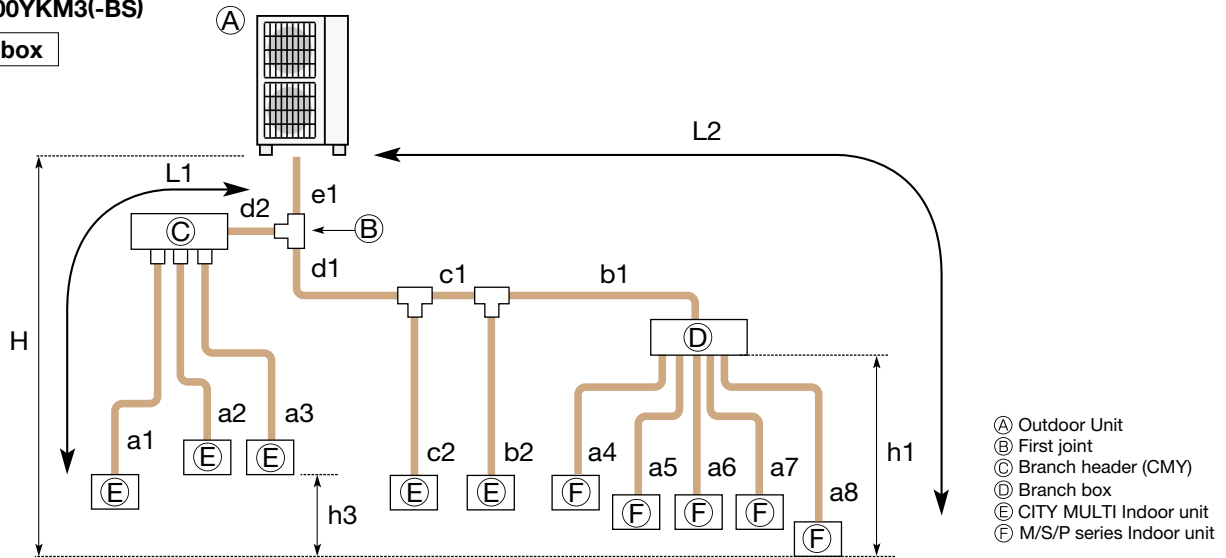
Permissible length (One-way)	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \leq 240 \text{ m}$
	Farthest piping length (L1)	$d1 + c1 + a1 \leq 85 \text{ m}$
	Farthest piping length. Via Branch box (L2)	$d1 + c2 + b2 + a11 \leq 80 \text{ m}$
	Piping 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)	$h2 \leq 15 \text{ m}$
Number of bends	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 + b2 + a9 , d1 + c2 + b2 + a10 , d1 + c2 + b2 + a11 \leq 15$

*1: Branch box should be placed within the level between the outdoor unit and indoor units.

2: PKFY-P-VBM, PKFY-P10-32VLM, PFFY-P-VKM, PFFY-P-VCM, and PFFY-P-VL type indoor units cannot be used in a mixed system.

PUMY-P200YKM3(-BS)

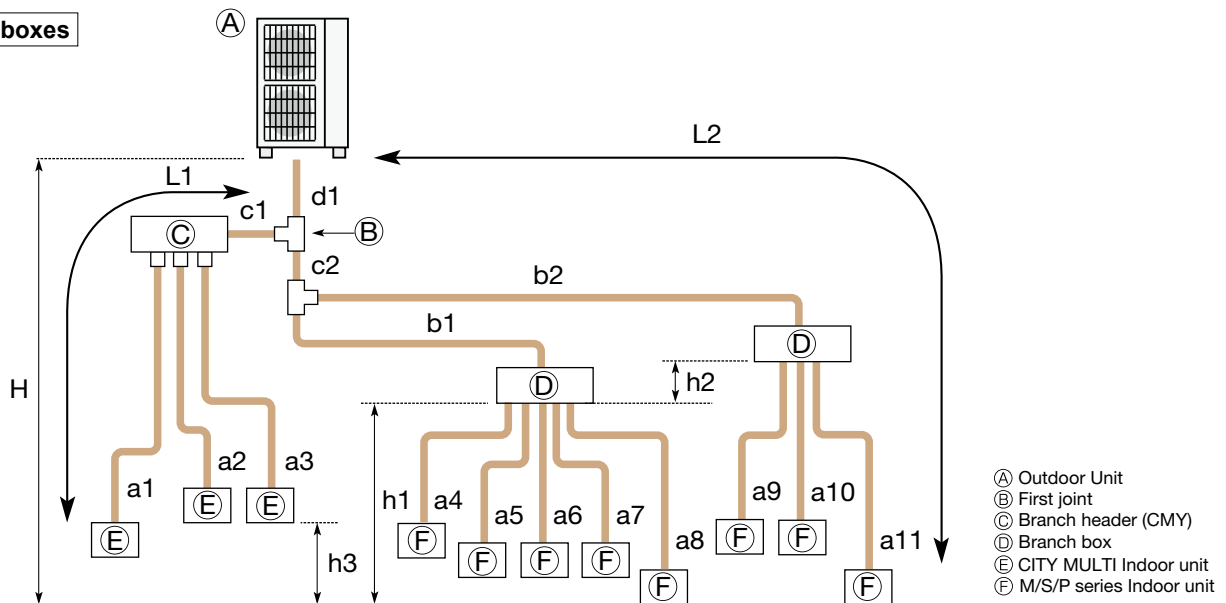
1-Branch box



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)	$e1 + d2 + a1 \text{ or } e1 + d1 + c1 + b2 \leq 80 \text{ m}$
	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	$d1 + c1 + b1 \text{ or } d1 + c1 + b2 \leq 30 \text{ m}$
	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	$ e1 + d2 + a1 , e1 + d2 + a2 , e1 + d2 + a3 , e1 + d1 + c2 , e1 + d1 + c1 + b2 , e1 + d1 + c1 + b1 + a4 , e1 + d1 + c1 + b1 + a5 , e1 + d1 + c1 + b1 + a6 , e1 + d1 + c1 + b1 + a7 , e1 + 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

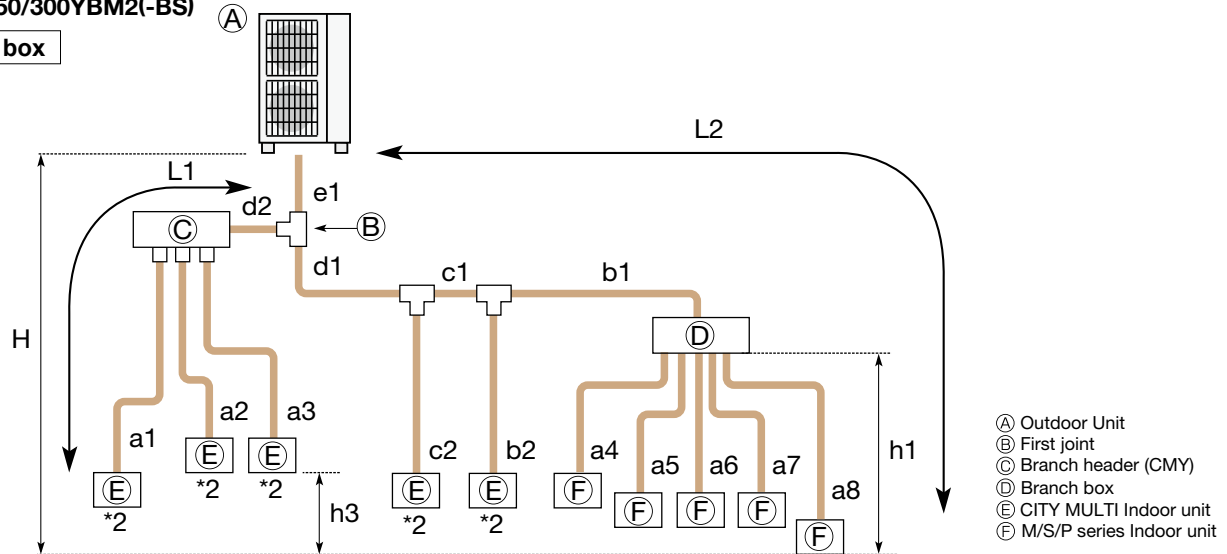


Permissible length (One-way)	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \leq 150 \text{ m}$
	Farthest piping length (L1)	$d1 + c1 + a1 \leq 80 \text{ m}$
	Farthest piping length. Via Branch box (L2)	$d1 + c2 + b2 + a11 \leq 80 \text{ m}$
	Piping length between outdoor unit and branch boxes	$d1 + c2 + b1 + b2 \leq 55 \text{ m}$
	Farthest piping length from the first joint	$c2 + b2 \text{ or } c1 + a1 \leq 30 \text{ m}$
	Farthest piping length after branch box	$a11 \leq 25 \text{ m}$
	Farthest branch box from outdoor unit	$d1 + c2 + b2 \leq 55 \text{ m}$
	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		$ d1 + c1 + a1 , d1 + c1 + a2 , d1 + c1 + a3 , d1 + c2 + b1 + a4 , d1 + c2 + b1 + a5 , d1 + c2 + b1 + a6 , d1 + c2 + b1 + a7 , d1 + c2 + b1 + a8 , d1 + c2 + b2 + a9 , d1 + c2 + b2 + a10 , d1 + c2 + b2 + a11 \leq 15$

*1: Branch box should be placed within the level between the outdoor unit and indoor units.

PUMY-P250/300YBM2(-BS)

1-Branch box

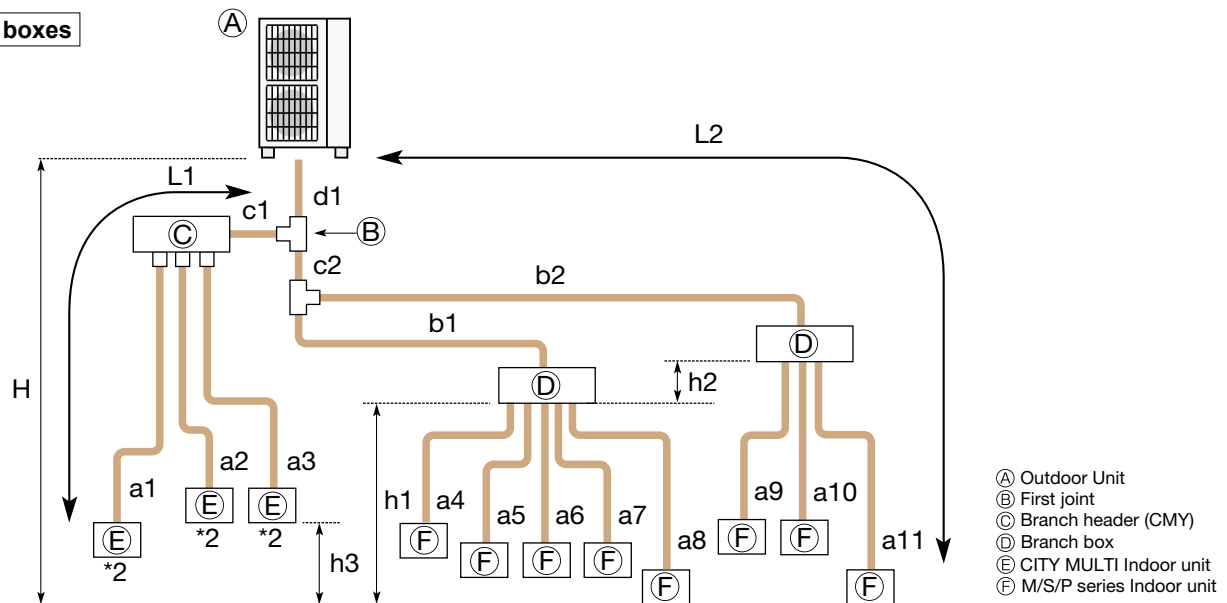


Permissible length (One-way)	Total piping length	$e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \leq 310 \text{ m}$
	Farthest piping length (L1)	$e1 + d2 + a1$ or $e1 + d1 + c1 + b2 \leq 85 \text{ m}$
	Farthest piping length. Via Branch box (L2)	$e1 + d1 + c1 + b1 + a8 \leq 80 \text{ m}$
	Piping length between outdoor unit and branch box	$e1 + d1 + c1 + b1 \leq 80 \text{ m}$
	Farthest piping length from the first joint	$d1 + c1 + b1$ 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		$ e1 + d2 + a1 , e1 + d2 + a2 , e1 + d2 + a3 , e1 + d1 + c2 , e1 + d1 + c1 + b2 , e1 + d1 + c1 + b1 + a4 , e1 + d1 + c1 + b1 + a5 , e1 + d1 + c1 + b1 + a6 , e1 + d1 + c1 + b1 + a7 , e1 + d1 + c1 + b1 + a8 \leq 23$

*1: Branch box should be placed within the level between the outdoor unit and indoor units.

2: PKFY-P-VBM, PKFY-P10-32VLM, PFFY-P-VKM, PFFY-P-VCM, and PFFY-P-VL type indoor units cannot be used in a mixed system.

2-Branch boxes



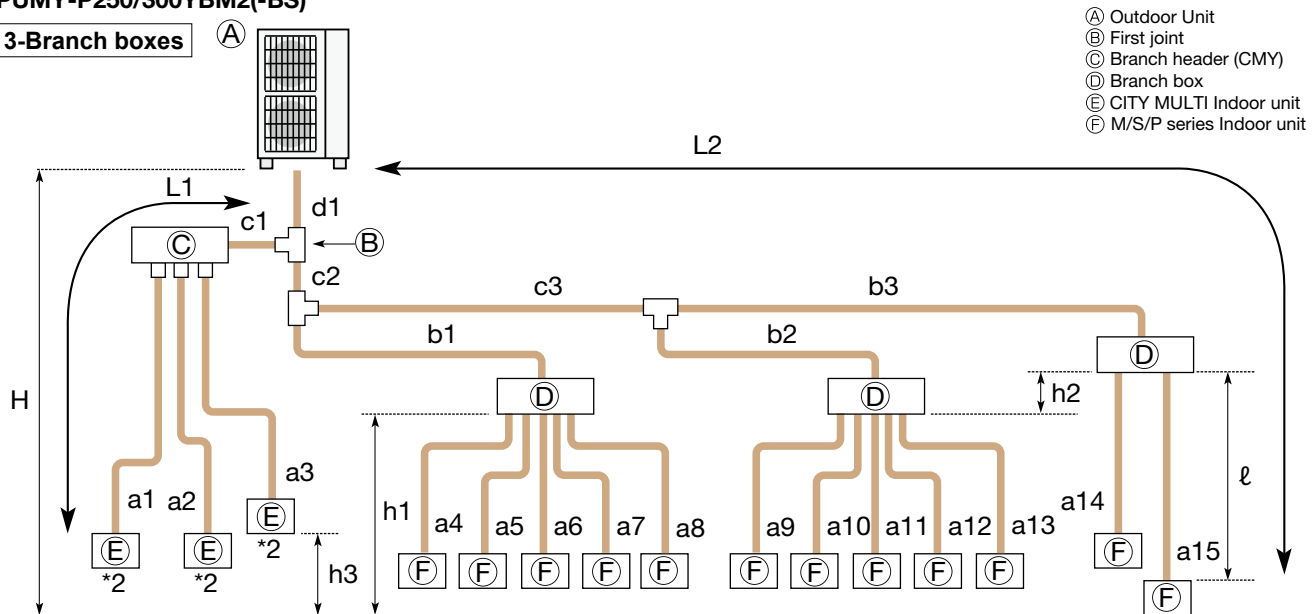
Permissible length (One-way)	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \leq 310 \text{ m}$
	Farthest piping length (L1)	$d1 + c1 + a1 \leq 85 \text{ m}$
	Farthest piping length. Via Branch box (L2)	$d1 + c2 + b2 + a11 \leq 80 \text{ m}$
	Piping length between outdoor unit and branch boxes	$d1 + c2 + b1 + b2 \leq 95 \text{ m}$
	Farthest piping length from the first joint	$c2 + b2$ 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		$ d1 + c1 + a1 , d1 + c1 + a2 , d1 + c1 + a3 , d1 + c2 + b1 + a4 , d1 + c2 + b1 + a5 , d1 + c2 + b1 + a6 , d1 + c2 + b1 + a7 , d1 + c2 + b1 + a8 , d1 + c2 + b2 + a9 , d1 + c2 + b2 + a10 , d1 + c2 + b2 + a11 \leq 23$

*1: Branch box should be placed within the level between the outdoor unit and indoor units

2: PKFY-P-VBM, PKFY-P10-32VLM, PFFY-P-VKM, PFFY-P-VCM, and PFFY-P-VL type indoor units cannot be used in a mixed system..

PUMY-P250/300YBM2(-BS)

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.

2: PKFY-P-VBM, PKFY-P10-32VLM, PFFY-P-VKM, PFFY-P-VCM, and PFFY-P-VL type indoor units cannot be used in a mixed system.

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	—	VF, 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/HA	Generation / Type
72	Rated cooling capacity (kW base)
V	"V"= 230V / Single phase / 50Hz , "F"= R32 with new A control
A/F	"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

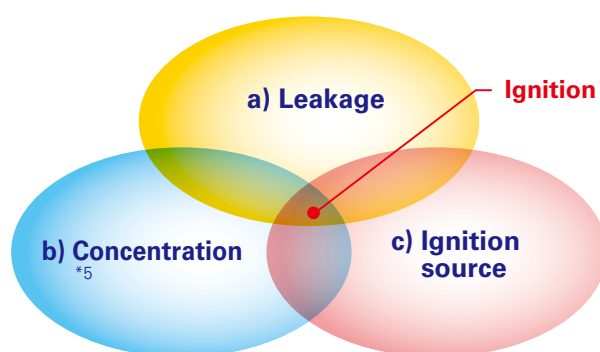
	Model Name	Refrigerant	Pre-charged quantity			Max. added quantity	
			GWPF	Weight [kg]	CO ₂ equivalent [t]	Weight [kg]	CO ₂ equivalent [t]
	MUZ-RW25VG	R32	675	1.20	0.81	1.40	0.95
	MUZ-RW35VG	R32	675	1.10	0.74	1.30	0.88
	MUZ-RW50VG	R32	675	1.21	0.82	1.51	1.02
	MUZ-LN25VG	R32	675	1.00	0.68	0.26	0.18
	MUZ-LN25VG2	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-AY25VG	R32	675	0.55	0.37	0.26	0.18
	MUZ-AY35VG	R32	675	0.55	0.37	0.26	0.18
	MUZ-AY42VG	R32	675	0.70	0.47	0.26	0.18
	MUZ-AY50VG	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-AY25VGH	R32	675	0.55	0.37	0.26	0.18
	MUZ-AY35VGH	R32	675	0.55	0.37	0.26	0.18
	MUZ-AY42VGH	R32	675	0.70	0.47	0.26	0.18
	MUZ-AY50VGH	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-DW25VF	R32	675	0.50	0.34	0.25	0.17
	MUZ-DW35VF	R32	675	0.55	0.38	0.25	0.17
	MUZ-DW50VF	R32	675	0.97	0.66	0.25	0.17
	MUYTP35VF	R32	675	0.85	0.57	0.13	0.09
	MUYTP50VF	R32	675	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
M-Series	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-2F33VF4	R32	675	0.8	0.54	0.8	0.54
	MXZ-2F42VF4	R32	675	1.0	0.675	1.0	0.675
	MXZ-2F53VF(H)4	R32	675	1.0	0.675	1.0	0.675
	MXZ-3F54VF4	R32	675	2.4	1.62	0	0
	MXZ-3F68VF4	R32	675	2.4	1.62	0	0
	MXZ-4F72VF4	R32	675	2.4	1.62	0	0
	MXZ-4F80VF4	R32	675	2.4	1.62	0	0
	MXZ-4F83VF2	R32	675	2.4	1.62	0	0
	MXZ-5F102VF2	R32	675	2.4	1.62	0	0
	MXZ-6F120VF2	R32	675	2.4	1.62	0	0
	MXZ-2F53VFHZ2	R32	675	2.4	1.62	0	0
	MXZ-4F83VFHZ2	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-2HA40VF2	R32	675	0.9	0.61	0.9	0.61
	MXZ-2HA50VF2	R32	675	0.9	0.61	0.9	0.61
	MXZ-3HA50VF2	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
	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
P-Series	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
	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	PUMYSP112VKM2(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMYSP112YKM2(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMYSP125VKM2(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMYSP125YKM2(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMYSP140VKM2(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMYSP140YKM2(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMYSP140YKM2(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMYSP112VKM6(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMYSP125VKM5(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMYSP140VKM5(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMYSP112YKM(E)5(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMYSP125YKM(E)6(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMYSP140YKM(E)5(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMYSP200YKM3(-BS)	R410A	2088	7.3	15.24	13.1	27.35
	PUMYSP250YBM2(-BS)	R410A	2088	9.3	19.42	32.1	67.03
PUMYSP300YBM2(-BS)	R410A	2088	9.3	19.42	32.1	67.03	
ATW Packaged	PUZ-WM50VHA	R32	675	2.0	1.35	–	–
	PUZ-WM60VAA	R32	675	2.2	1.49	–	–
	PUZ-WM85V/YAA	R32	675	2.2	1.49	–	–
	PUZ-WM112V/YAA	R32	675	3.0	2.03	–	–
	PUZ-WHM140V/YHA	R32	675	3.3	2.2275	–	–
ATW Split	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-SWM80V/YAA	R32	675	1.3	0.8775	0.3	0.20
	PUD-SWM100V/YAA	R32	675	1.6	1.08	0.23	0.16
	PUD-SWM120V/YAA	R32	675	1.6	1.08	0.23	0.16
	PUD-SHWM60VAA	R32	675	1.4	0.945	0.3	0.20
	PUD-SHWM80V/YAA	R32	675	1.4	0.945	0.3	0.20
	PUD-SHWM100V/YAA	R32	675	1.7	1.1475	0.13	0.09
	PUD-SHWM120V/YAA	R32	675	1.7	1.1475	0.13	0.09
	PUD-SHWM140V/YAA	R32	675	1.7	1.1475	0.13	0.09
	PUHZ-SW75V/YAA	R410A	2088	3.0	6.27	1.8	3.76
	PUHZ-SW100V/YAA	R410A	2088	4.2	8.77	1.6	3.76
	PUHZ-SW120V/YHA	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
	PUHZ-SHW80V/YAA	R410A	2088	4.6	9.61	1.4	2.93
	PUHZ-SHW112V/YAA	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
Mr. Slim+	PUHZ-FRP71VHA2	R410A	2088	3.8	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.



WARNING

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.



CAUTION

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.

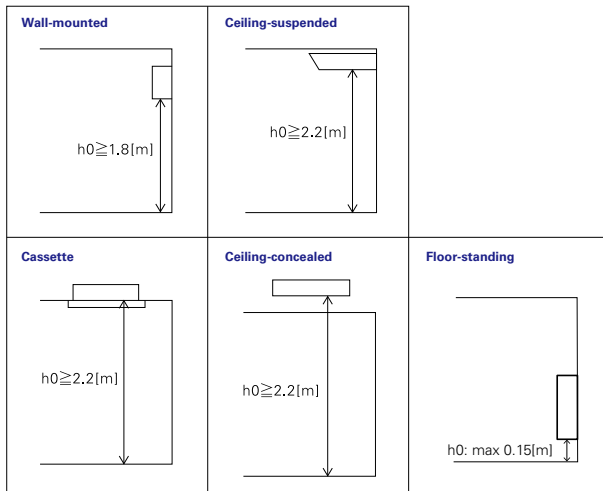
(M = factory-charged refrigerant + locally added refrigerant)

Install the indoor unit so that the height from the floor to the bottom of the indoor unit is h_0^* .

* Refer to table and drawings below.

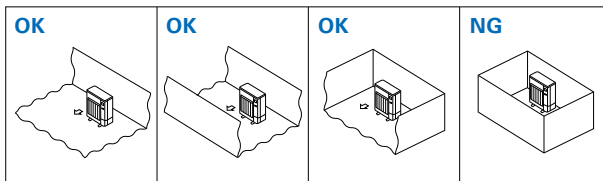
<M Series>		<P Series> ①		<MXZ Series> ②		<Only for MFZ-KT/KW>	
M[kg]	A_{min} [m ²]	M[kg]	A_{min} [m ²]	M[kg]	A_{min} [m ²]	M[kg]	A_{min} [m ²]
0.7	1.7	1.0	4	<1.84	No requirements	1.00	No requirements
0.8	2.0	1.5	6	1.84	6	1.50	No requirements
0.9	2.2	2.0	8	2.0	6	1.80	No requirements
1.0	2.5	2.5	10	2.5	7	1.84	3.63
1.1	2.7	3.0	12	3.0	9	1.90	3.75
1.2	3.0	3.5	14	3.5	10	2.00	3.95
1.3	3.2	4.0	16	4.0	11	2.10	4.15
1.4	3.4	4.5	20	4.5	13	2.20	4.34
1.5	3.7	5.0	24	5.0	14	2.30	4.54
1.6	3.9	5.5	29	5.5	15	2.40	4.74
1.7	4.2	6.0	35	6.0	17		
1.8	4.4	6.5	41	6.5	18		
1.9	4.6	7.0	47	7.0	20		
2.0	4.9	7.5	54	7.5	21		
		8.0	62	8.0	22		
		8.5	69	8.5	24		
		9.0	78	9.0	25		
		9.5	87	9.5	26		

① For wall-mounted, ceiling suspended, cassette and concealed
② For floor-standing (PSA-M)



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.



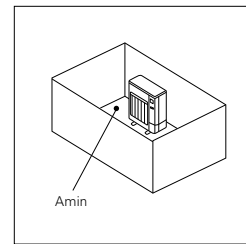
If you unavoidably install a unit in a space where all four sides are blocked or there are depressions, confirm that one of these situations (A, B or C) is satisfied.

A Secure sufficient installation space (minimum installation area A_{min}).

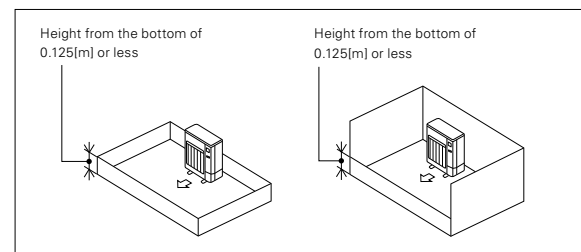
Install in a space with an installation area of A_{min}^* or more, corresponding to refrigerant quantity M. (M = factory-charged refrigerant + locally added refrigerant)

* 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
8.0	89
8.5	95
9.0	100
9.5	106



B Install in a space with a depression height of ≤ 0.125 [m].

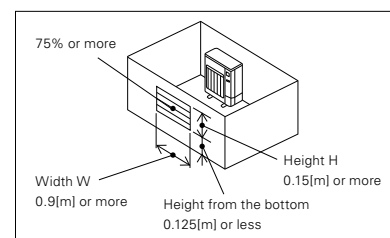


C Create an appropriate open ventilation area.

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






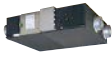



SELECTION

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-RVX3 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. 	<div>Plasma Quad Protect</div> <div>Air purifier</div> <div><div>JC-23KR-EU </div><div>JC-4K-EU </div></div>		
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. 			

LOSSNAY LINEUP

Application		Model Model	Airflow	50 CMH	100 CMH	150 CMH	250 CMH	350 CMH	500 CMH	650 CMH	800 CMH	1000 CMH	1500 CMH	1600 CMH	2000 CMH	2500 CMH
Centralized Ventilation	Ceiling Concealed	LGH-RVX3 Series				●	●	●	●	●	●	●		●	●	
		LGH-RVXT Series											●		●	●
		LGH-RVS Series							●		●	●				
		GUF 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

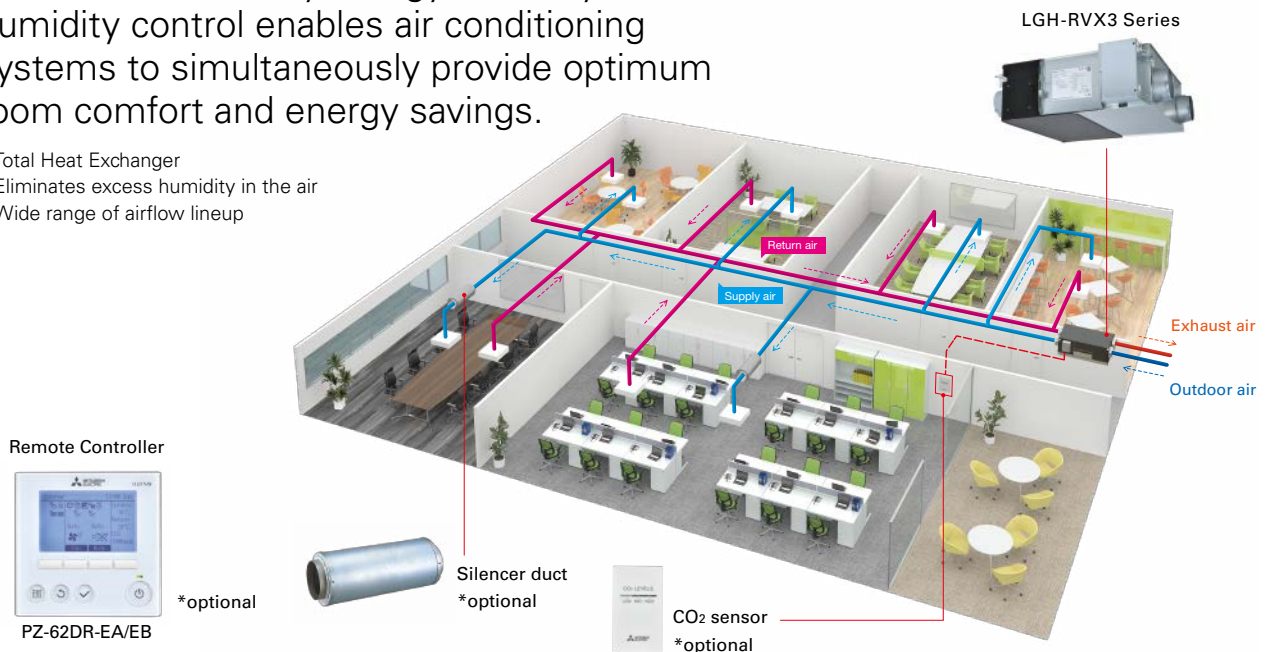
Energy Recovery Ventilation

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



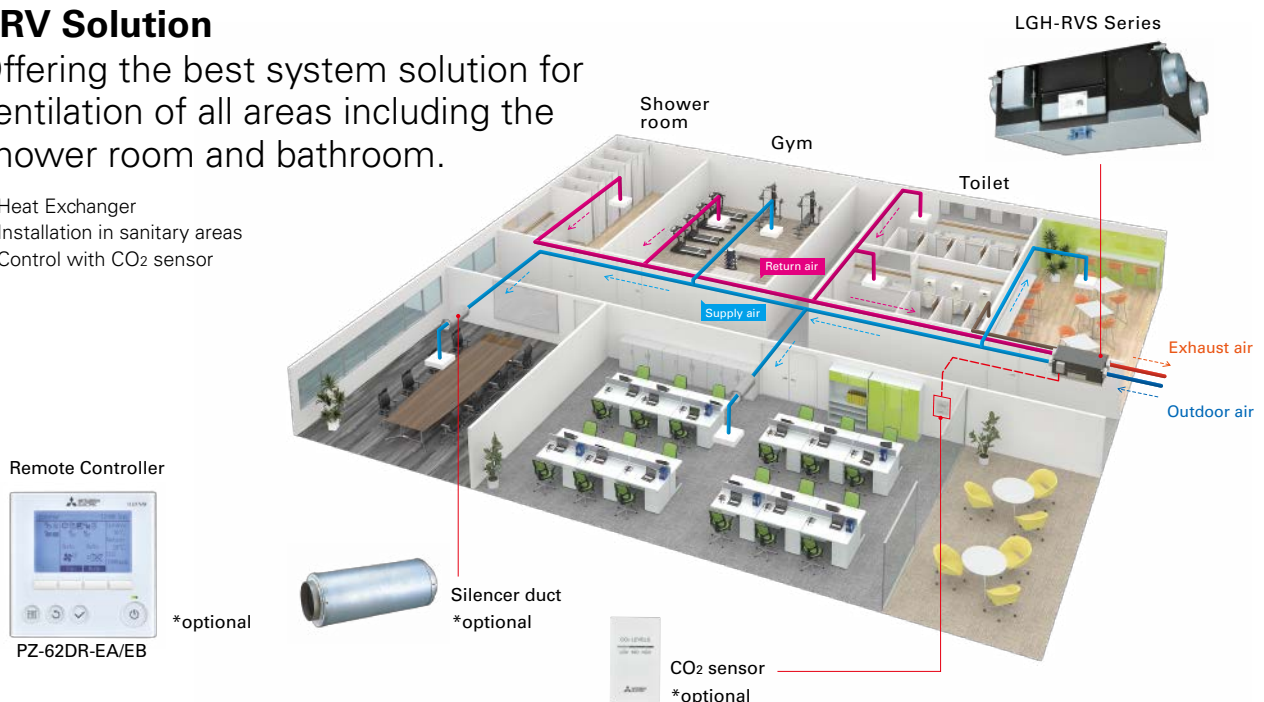
Heat Recovery Ventilation

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



Residential Use LOSSNAY

Mitsubishi Electric offers you decentralized ventilation and centralized ventilation solutions for optimizing your indoor air quality by LOSSNAY.

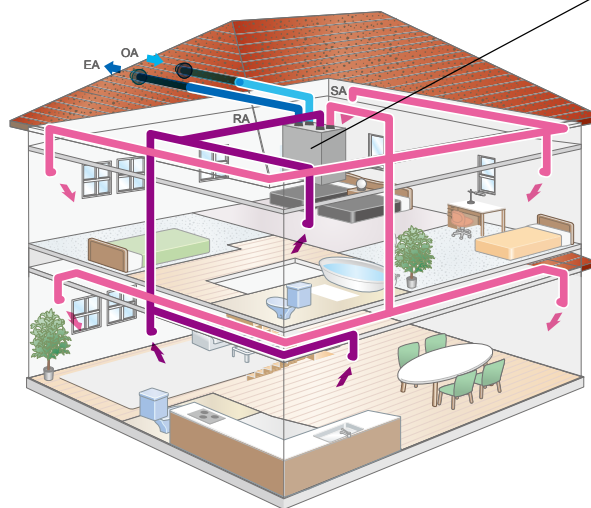
Heat Recovery Ventilation

A heat exchange ventilation system that uses a heat exchanger (LOSSNAY core) to perform temperature (sensible heat) exchange.

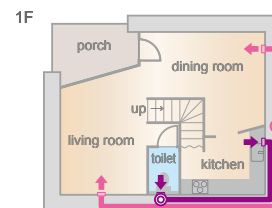
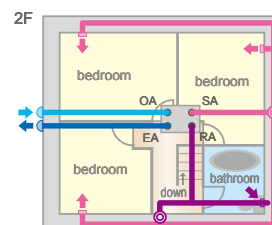
Centralized Ventilation Solution

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



VL250/350/500CZPVU-R-E
VL250/350/500CZPVU-L-E



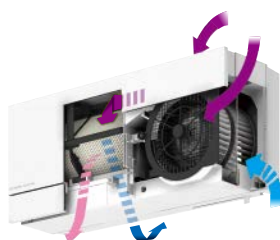
Energy Recovery Ventilation

A total heat exchange ventilation system that uses paper characteristics (LOSSNAY Core) to perform temperature (Sensible heat) and humidity (latent heat) exchange.

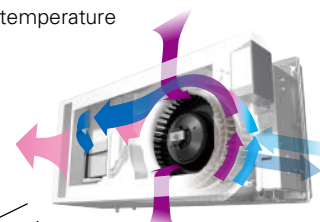
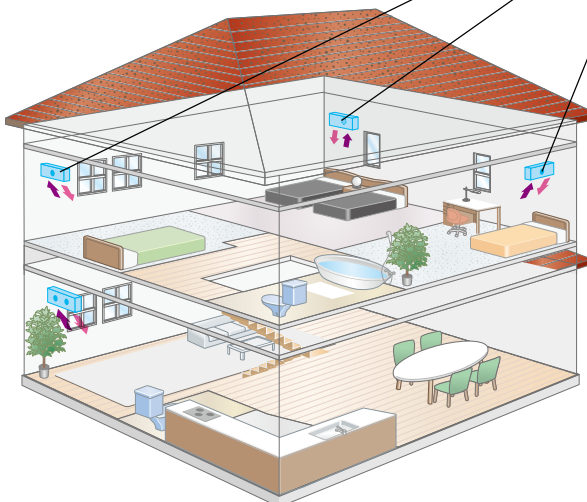
Decentralized Ventilation Solution

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.

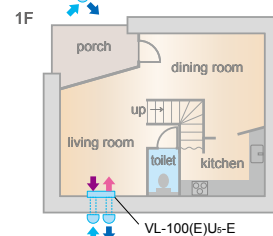
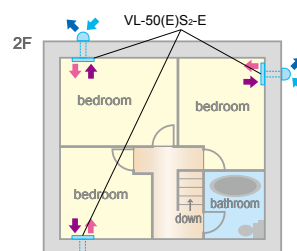
- ✓ Total Heat Exchanger
- ✓ Individual Ventilation
- ✓ Flexible Installation
- ✓ Easy Maintenance
- ✓ Stylish Design



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

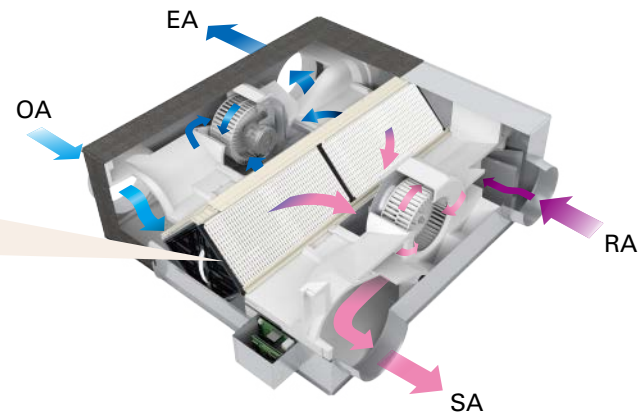
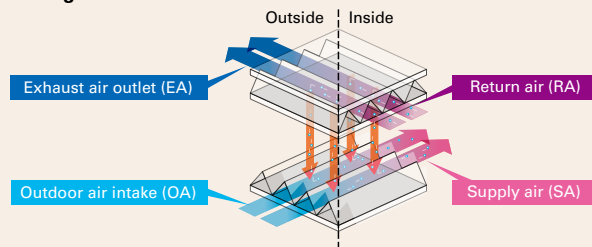
LOSSNAY ventilation systems are renowned industry-wide for their efficiency. They offer environment-friendly energy recovery and humidity control, and enable air conditioning systems to simultaneously provide optimum room comfort and energy savings.



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

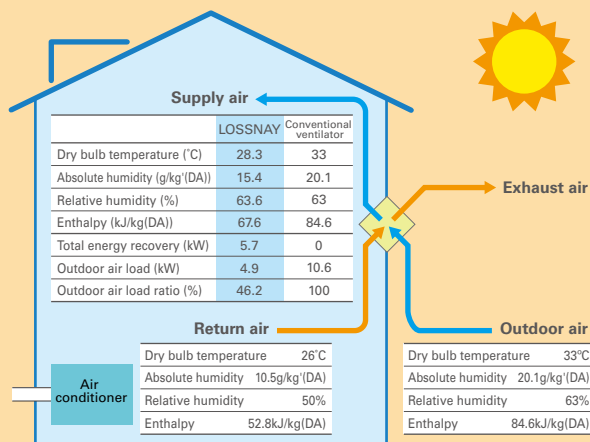


What can be improved by introducing LOSSNAY?

● Ventilation with maximized comfort

In summer

Air similar to the conditions of the cooled (dehumidified) indoor air is supplied.



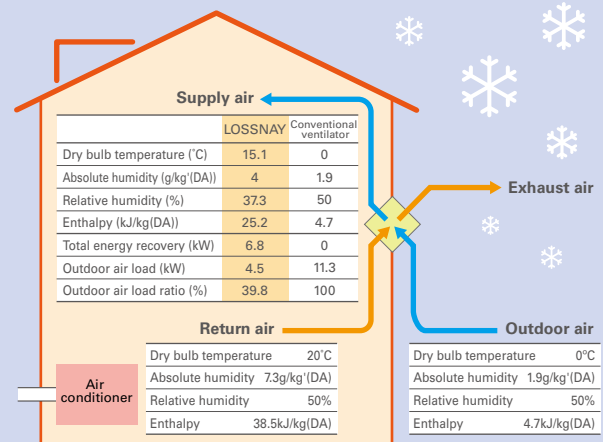
Heat recovery calculation

$$\text{Indoor supply air temperature (°C)} = \text{Outdoor temperature (°C)} - \left\{ \text{Outdoor temperature (°C)} - \text{Indoor temperature (°C)} \right\} \times \text{Temp. recovery efficiency (\%)} \\ \text{Calculation example: } 28.3^{\circ}\text{C} = 33^{\circ}\text{C} - (33^{\circ}\text{C} - 26^{\circ}\text{C}) \times 67.5\%$$

*The above applies to the case of LGH-100RVX3-E. (1000m³/h)

In winter

Air similar to the conditions of the heated (humidified) indoor air is supplied.



Heat recovery calculation

$$\text{Indoor supply air temperature (°C)} = \left\{ \text{Indoor temperature (°C)} - \text{Outdoor temperature (°C)} \right\} \times \text{Temp. recovery efficiency (\%)} + \text{Outdoor temperature (°C)} \\ \text{Calculation example: } 15.1^{\circ}\text{C} = (20^{\circ}\text{C} - 0^{\circ}\text{C}) \times 75.5\% + 0^{\circ}\text{C}$$

*The above applies to the case of LGH-100RVX3-E. (1000m³/h)

LGH-RVX3 SERIES

A commercially oriented system that can be used to deliver high performance and functions virtually anywhere.

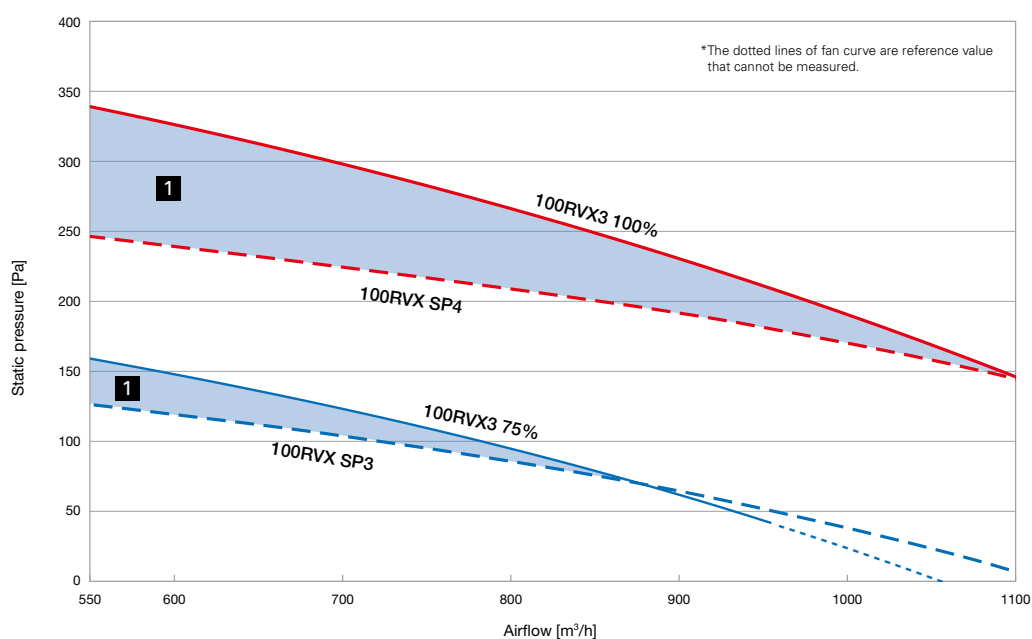
LGH-15/25/35/50/65/80/100/160/200RVX3-E



Four Key Features

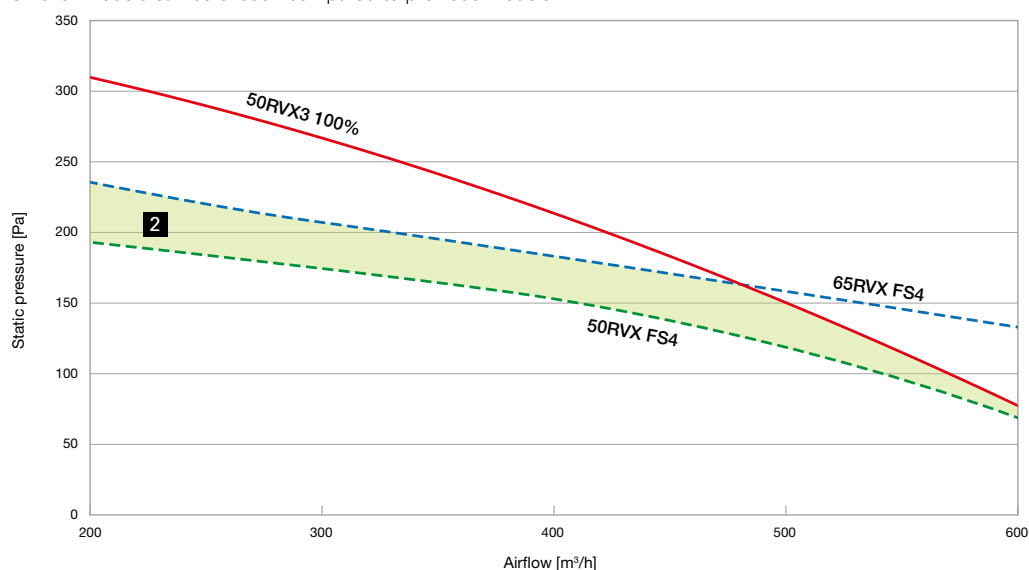
High static pressure

External static pressure has been improved compared to previous models. Accompanying this increase in external static pressure, the selection range of models and filters has also expanded. Furthermore, flexible duct work becomes possible.



1 Increased static pressure.

Smaller models can be chosen compared to previous models.



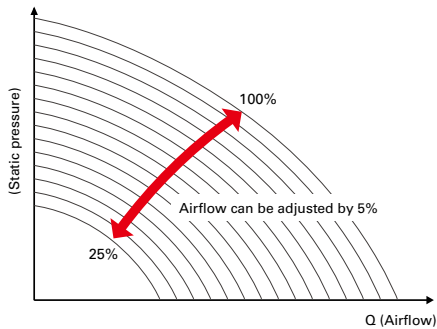
2 Where 65RVX had to be chosen previously, 50RVX3 (one size down) may now be chosen, owing to its increased external static pressure.

Controllability

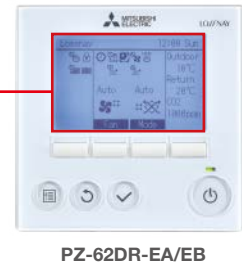
1. Improved airflow range

Variable air control

The default fan speed value (Fan speed 1: 25%, Fan speed 2: 50%, Fan speed 3: 75%, 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 5% increments to satisfactorily meet the designed airflow rate.

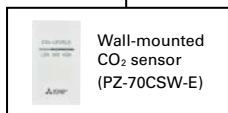


Airflow		
Add.	1	Supply / Exhaust
		30 % / 30 %
		35 % / 50 %
		75 % / 50 %
		100 % / 90 %
Speed select: ✓		
▼ Cursor ▲		



2. New CO₂ sensor

A CO₂ sensor connected directly to a LOSSNAY RVX3 unit optimizes the fan speed according to the levels of CO₂ detected. It improves total heat exchange efficiency and contributes to energy savings.

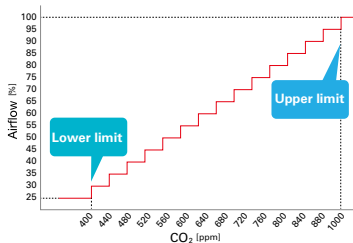


OR



Two types of CO₂ sensors are available: wall-mounted and duct-mounted types. Power is supplied to the CO₂ sensor from the Lossnay board.

Fan speed automatically changes from 25% to 100% (16 steps) depending on the level of CO₂ concentration.



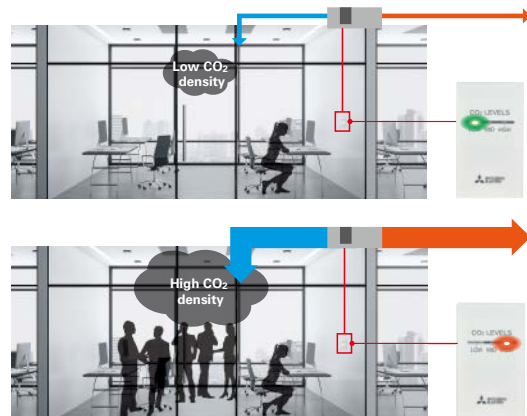
Both upper and lower limits can be adjusted.
Upper limit: from 600 to 2000 ppm.
Lower limit: from 300 to (upper limit - 300) ppm.
50 ppm increments.

CO ₂ control		
►CO ₂ control	No	/ Yes
CO ₂ upper limit	1600	ppm
CO ₂ lower limit	450	ppm
Select: ✓		
▼ Cursor ▲ ◀ Cursor ▶		



Automatic operation with CO₂ sensor

Fan speed automatically changes depending on CO₂ concentration.





Dual Barrier Coating

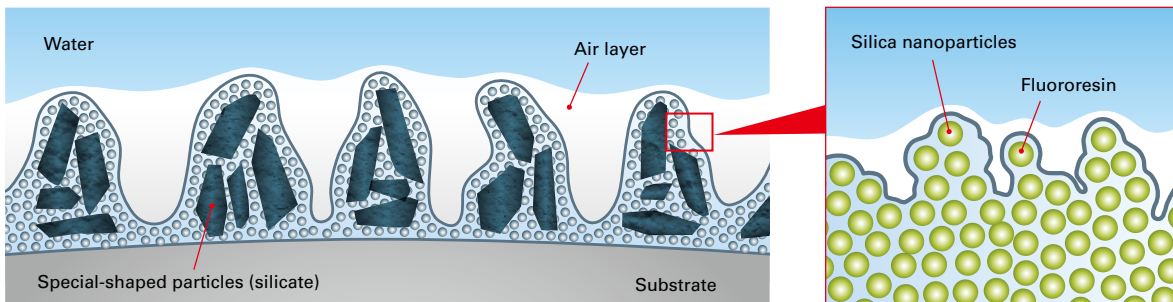


*Dual Barrier Coating is applied to Air Supply/Exhaust Fan

Dual barrier coating

A water-repellent effect is achieved by creating a coating film that has nano-sized concave-convex structures formed by silica nanoparticles made of water-repellent fluororesin and micron-sized concave-convex structures formed by combining micron-sized special-shaped particles (silicate) with the silica nanoparticles. At the same time, the uneven structure forms an air layer that suppresses the adhesion of dust and sand that contain a lot of humidity, reducing the amount of dirt that adheres to the substrate.

■ Conceptual image of dual barrier coating



Upgraded filters

The standard filter has been improved from Coarse 35% to Coarse 60% (measured by ISO16890:2016).

PZ-**RF3-E
Standard filter

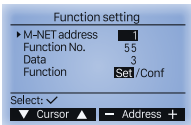
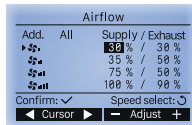


For Installer

Improved workability

Commissioning time

Using a designed motor and new remote controller, a genius algorithm is introduced to reduce the time of airflow adjustment.

	RVX series (PZ-61DR-E)	RVX3 series (PZ-62DR-EA/EB)
Motor	Fan speed was not adjusted quickly.	Fan speed is adjusted quickly by using a designed motor.
Screen setting	 <p>Fan speed can be set by Function setting which needs the settg table. (Not intuitive)</p>	 <p>Fan speed can be set by new display "Airflow setting" where user can set intuitively.</p>

For example, when checking airflow volume twice in SA side → Commissioning time is reduced by **75%*1**

*1 The average reduction rate when our workers actually install LGH-100RVX-E and LGH-100RVX3-E.

Setting work involves changing the air volume of supply/exhaust air, and the amount of the time that can be reduced varies depending on the operator and work conditions.

	RVX series (PZ-61DR-E)			RVX3 series (PZ-62DR-EA/EB)		
SA	FS4	Adjust to original speed	173s	100%	Adjust to original speed	20s
		Check airflow volume → too much	—		Check airflow volume → too much	—
	OFF	Fan speed setting FS4 →FS3+3	61s	OFF	Airflow setting 100%→90%	40s
	FS3+3	Adjust to set speed	94s	90%	Adjust to set speed	20s
		Check airflow volume → too much	—		Check airflow volume → too much	—
	OFF	Fan speed setting FS3+3 →FS3+1	61s	OFF	Airflow setting 90%→80%	40s
	FS3+1	Adjust to set speed	162s	80%	Adjust to set speed	20s
		Check airflow volume → OK	—		Check airflow volume → OK	—
Total			551s	Total 140s		

Vertical Installation

By enabling vertical installation, the choices of installation location have expanded.



RVX3 can be installed vertically using optional parts.

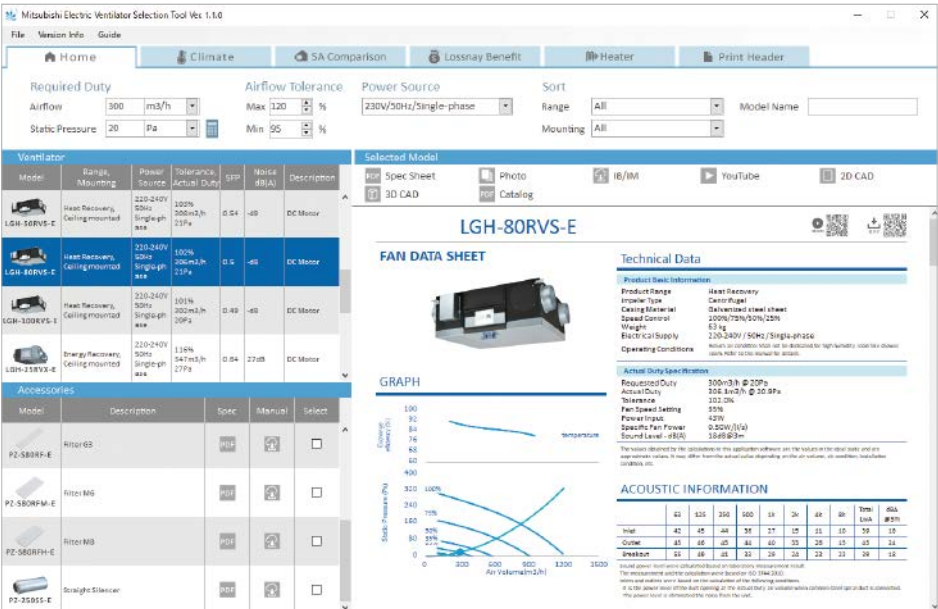
It can be installed practically anywhere, such as in the machine room, the edges of a room, and so on.

Please follow the installation manual when you install RVX3 series vertically.

Model name	LOSSNAY
PZ-1VS-E	LGH-15RVX3-E
	LGH-25RVX3-E
	LGH-35RVX3-E
	LGH-50RVX3-E
PZ-2VS-E	LGH-65RVX3-E
	LGH-80RVX3-E
	LGH-100RVX3-E

Mitsubishi Electric Ventilator Selection Tool

Appropriate information can be obtained from the required air volume and required static pressure.



This picture is an example of LGH-80RVS-E, which is a different model from RVX3 series.

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-200RVX3-E



Height: 808mm

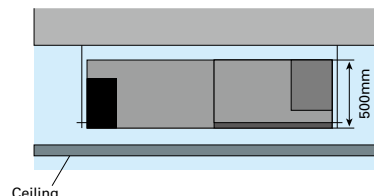
■ LGH-150/200/250RVXT-E



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



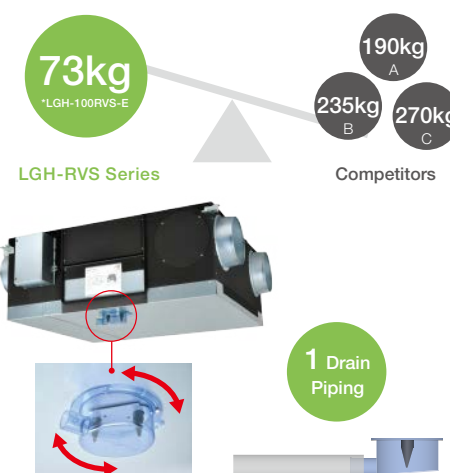
Easy installation

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.

■ CO₂ sensor



■ Filter



■ Silencer duct



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).

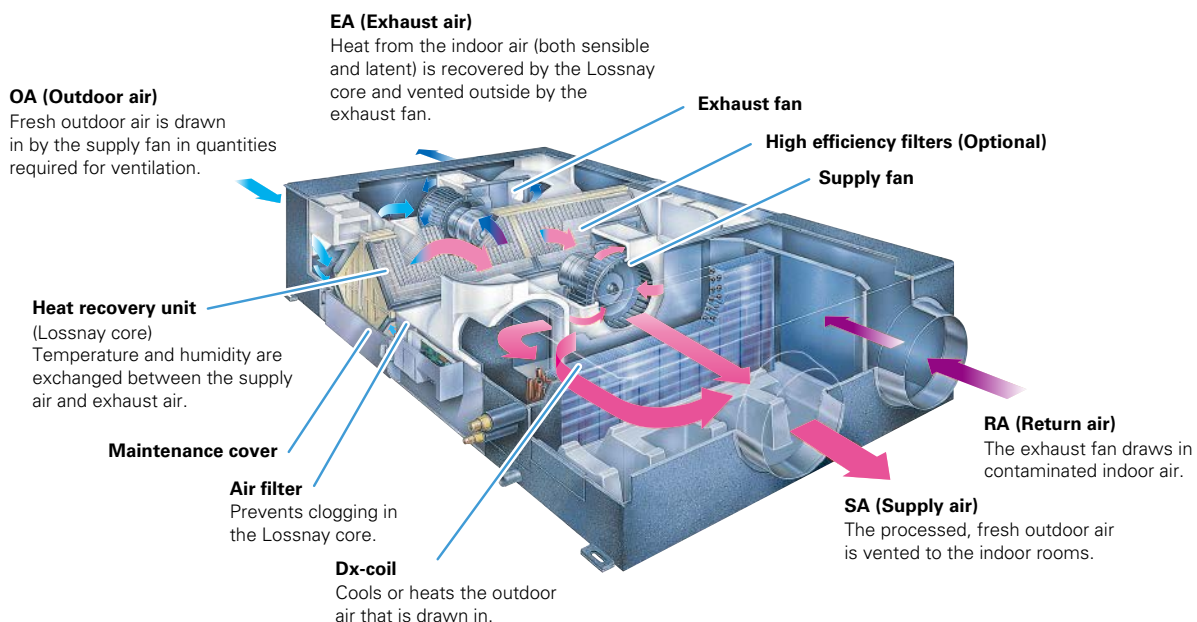
R410A refrigerant units

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



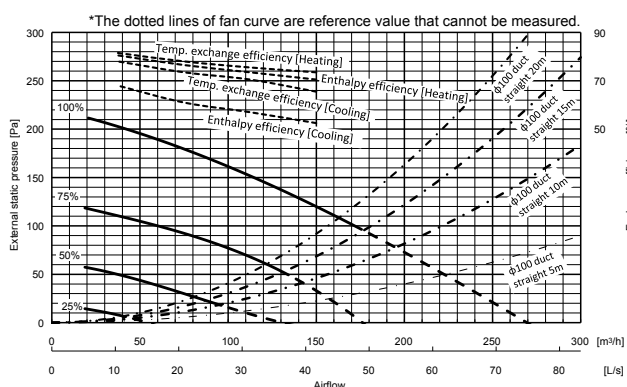
LGH-RVX3 SERIES

Specifications

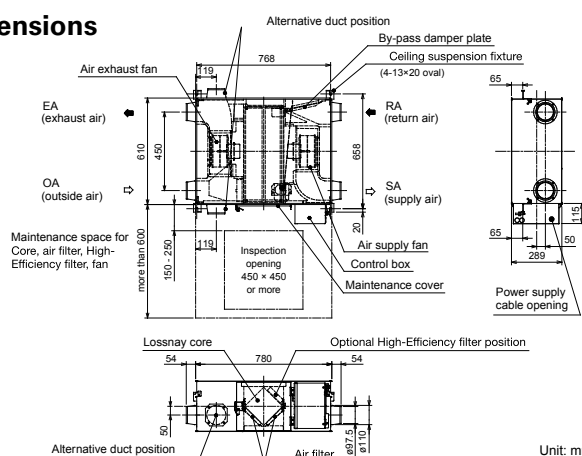
LGH-15RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		4	3	2	1	Test condition
Default Airflow setting		100%	75%	50%	25%	
Input power (W)		55	30	15	10	ISO 16494-1: 2022
Airflow	(m³/h)	150	113	75	38	
	(L/s)	42	31	21	10	
Specific fan power [W/(L/s)]		1.32	0.96	0.72	0.96	
External static pressure (Pa)		120	68	30	8	
Temperature exchange efficiency (%)	Heating	73.5	75.5	78.0	81.5	
	Cooling	65.5	70.5	73.5	78.0	
Enthalpy exchange efficiency (%)	Heating	70.5	73.5	76.5	80.5	
	Cooling	52.5	57.0	61.0	68.0	
Noise (dB) <small>(Measured at 1.5m under the center of the unit in an anechoic chamber)</small>		27.0	22.0	18.0	17.0	
Weight (kg)		20				

Characteristic Curves



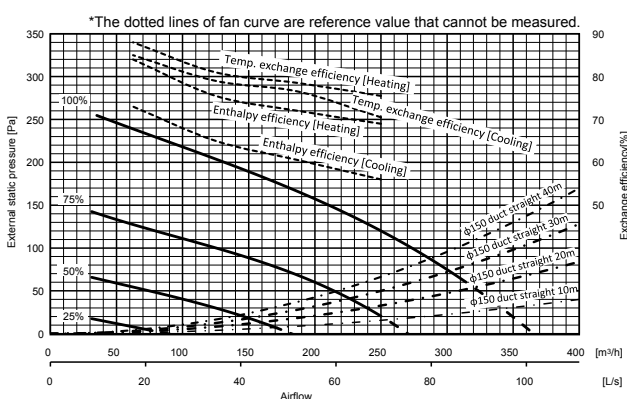
Dimensions



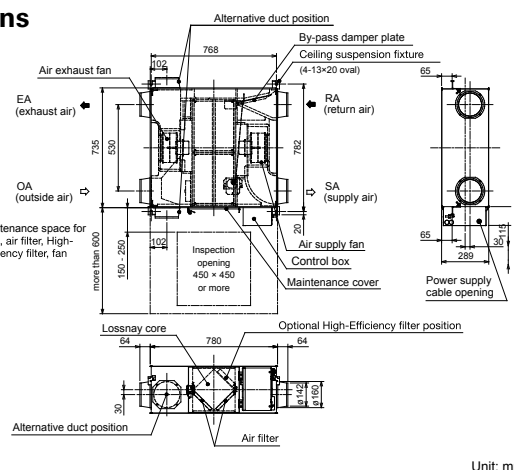
LGH-25RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz					
Fan speed		4	3	2	1	Test condition	
Default Airflow setting		100%	75%	50%	25%		
Input power (W)		75	42	21	11		
Airflow	(m³/h)	250	188	125	63	ISO 16494-1: 2022	
	(l/s)	69	52	35	17		
Specific fan power [W/(L/s)]		1.08	0.81	0.60	0.63		
External static pressure (Pa)		120	68	30	8		
Temperature exchange efficiency (%)	Heating	75.5	78.5	81.0	88.0		
	Cooling	70.5	76.5	79.0	85.0		
Enthalpy exchange efficiency (%)	Heating	69.0	72.0	75.5	84.0		
	Cooling	56.0	60.5	65.0	73.0		
Noise (dB)	(Measured at 1.5m under the center of the unit in an anechoic chamber)	30.5	25.0	19.5	17.0		A-weighted sound pressure level
Weight (kg)		22					

Characteristic Curves



Dimensions



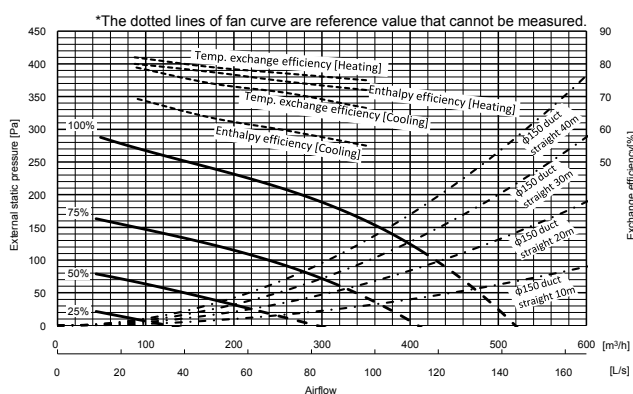
■ For LGH-RVX3 series

*The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.

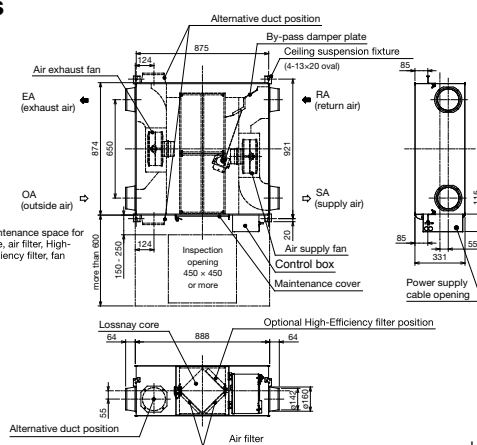
LGH-35RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz				Test condition
Fan speed		4	3	2	1	
Default Airflow setting		100%	75%	50%	25%	
Input power (W)		120	61	29	15	
Airflow		350	263	175	88	
	(m ³ /h)					ISO 16494-1: 2022
	(L/s)	97	73	49	24	
Specific fan power [W/(L/s)]		1.23	0.84	0.60	0.62	
External static pressure (Pa)		160	90	40	10	
Temperature exchange efficiency (%)	Heating	75.0	77.0	79.0	82.0	
	Cooling	66.5	71.0	74.0	79.0	
Enthalpy exchange efficiency (%)	Heating	72.0	74.5	77.5	80.0	
	Cooling	55.0	59.5	63.5	69.5	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		30.5	24.5	19.0	17.0	A-weighted sound pressure level
Weight (kg)		30				

Characteristic Curves



Dimensions

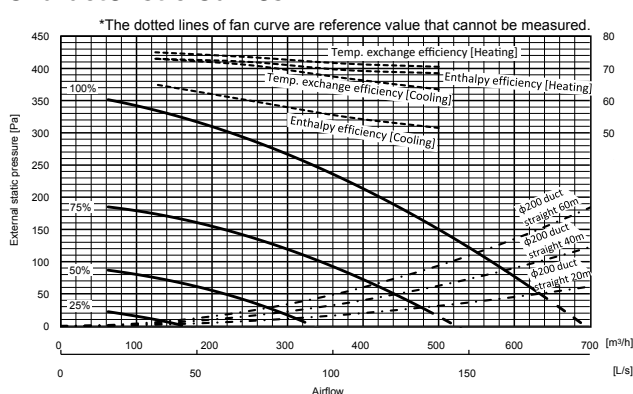


Unit: mm

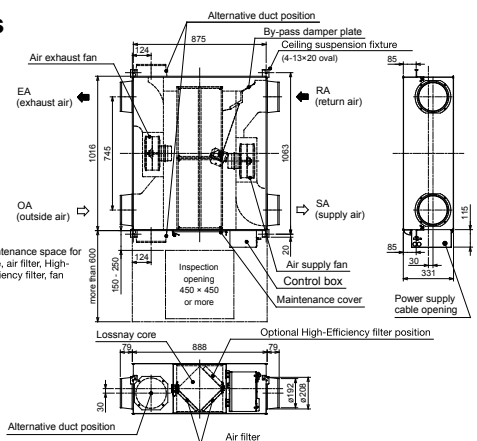
LGH-50RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz				Test condition
Fan speed		4	3	2	1	
Default Airflow setting		100%	75%	50%	25%	
Input power (W)		185	81	34	15	
Airflow		500	375	250	125	
	(m ³ /h)					ISO 16494-1: 2022
	(L/s)	139	104	69	35	
Specific fan power [W/(L/s)]		1.33	0.78	0.49	0.43	
External static pressure (Pa)		150	85	38	10	
Temperature exchange efficiency (%)	Heating	70.5	71.5	73.5	75.0	
	Cooling	63.5	67.0	71.0	73.0	
Enthalpy exchange efficiency (%)	Heating	68.5	69.5	72.0	73.0	
	Cooling	51.5	55.0	60.0	65.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		35.0	27.0	21.0	17.0	A-weighted sound pressure level
Weight (kg)		33				

Characteristic Curves



Dimensions



Unit: mm

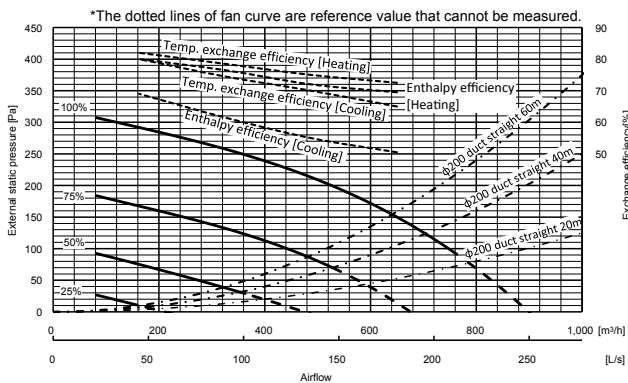
■ For LGH-RVX3 series

*The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.

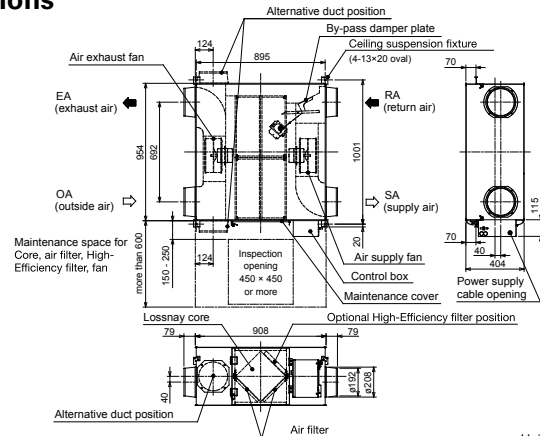
LGH-65RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		4	3	2	1	Test condition
Default Airflow setting		100%	75%	50%	25%	
Input power (W)		245	120	51	20	
Airflow	(m³/h)	650	488	325	163	EN13053: 2019
	(L/s)	181	135	90	45	
Specific fan power [W/(L/s)]		1.36	0.89	0.56	0.44	
External static pressure (Pa)		150	85	38	10	
Temperature exchange efficiency (%)	Heating	72.5	75.0	78.5	82.0	EN308: 2022
	Cooling	65.0	70.0	74.5	80.0	
Enthalpy exchange efficiency (%)	Heating	69.5	72.0	76.5	80.0	
	Cooling	50.5	55.0	61.5	69.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		37.5	31.5	24.0	17.5	A-weighted sound pressure level
Weight (kg)		41				

Characteristic Curves



Dimensions

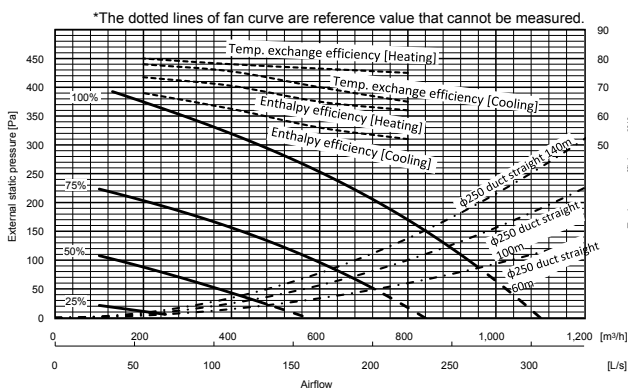


Unit: mm

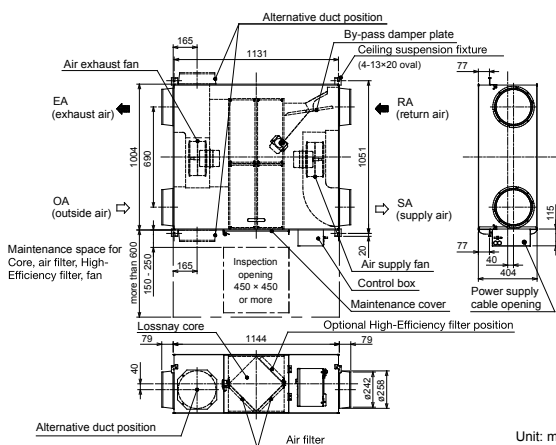
LGH-80RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		4	3	2	1	Test condition
Default Airflow setting		100%	75%	50%	25%	
Input power (W)		343	160	64	23	
Airflow	(m³/h)	800	600	400	200	EN13053: 2019
	(L/s)	222	167	111	56	
Specific fan power [W/(L/s)]		1.54	0.96	0.58	0.41	
External static pressure (Pa)		170	96	43	11	
Temperature exchange efficiency (%)	Heating	75.0	76.5	78.0	80.0	EN308: 2022
	Cooling	65.0	70.0	75.5	78.0	
Enthalpy exchange efficiency (%)	Heating	62.0	65.0	70.5	73.5	
	Cooling	52.0	56.0	62.5	68.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		39.0	33.5	25.0	18.0	A-weighted sound pressure level
Weight (kg)		47				

Characteristic Curves



Dimensions



Unit: mm

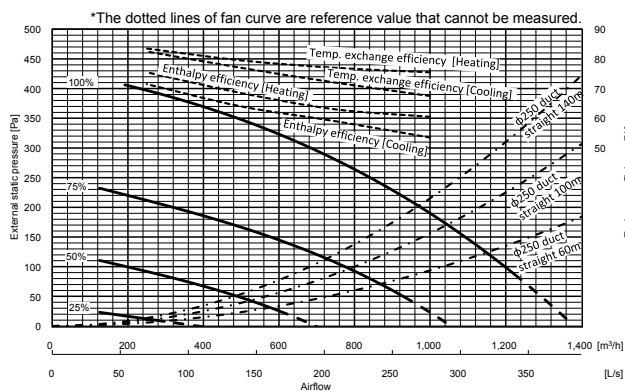
■ For LGH-RVX3 series

*The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.

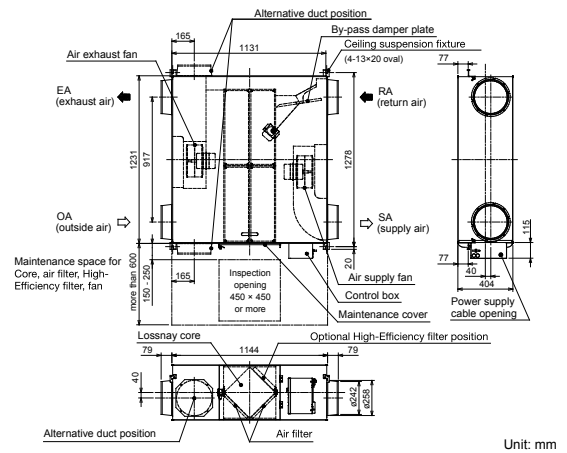
LGH-100RVX3-E

Electrical power supply	220-240V/50Hz, 220V/60Hz				Test condition
Fan speed	4	3	2	1	
Default Airflow setting	100%	75%	50%	25%	EN13053: 2019
Input power (W)	438	210	83	27	
Airflow	(m ³ /h)	1000	750	500	
	(L/s)	278	208	139	
Specific fan power [W/(L/s)]	1.58	1.01	0.60	0.39	EN308: 2022
External static pressure (Pa)	190	107	48	12	
Temperature exchange efficiency (%)	Heating	75.5	77.0	79.5	
	Cooling	67.5	72.0	77.0	
Enthalpy exchange efficiency (%)	Heating	60.5	63.0	68.5	A-weighted sound pressure level
	Cooling	53.5	59.0	64.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)	40.0	35.0	27.0	18.5	
Weight (kg)	53				

Characteristic Curves



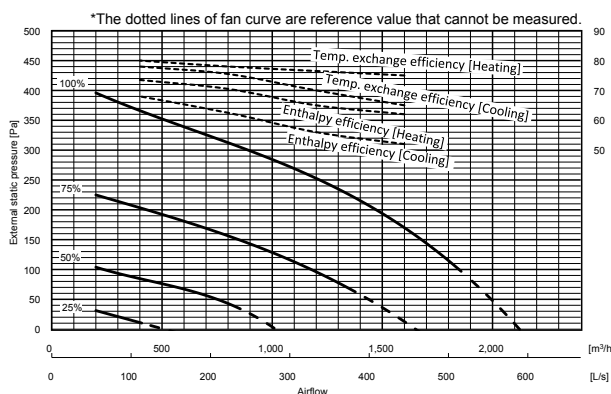
Dimensions



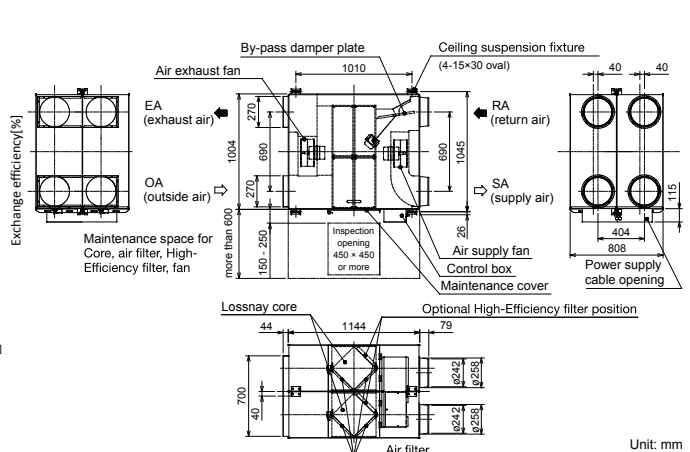
LGH-160RVX3-E

Electrical power supply	220-240V/50Hz, 220V/60Hz				Test condition
Fan speed	4	3	2	1	
Default Airflow setting	100%	75%	50%	25%	EN13053: 2019
Input power (W)	687	324	128	45	
Airflow	(m ³ /h)	1600	1200	800	
	(L/s)	444	333	222	
Specific fan power [W/(L/s)]	1.55	0.97	0.58	0.41	EN308: 2022
External static pressure (Pa)	170	96	43	11	
Temperature exchange efficiency (%)	Heating	75.0	76.5	78.0	
	Cooling	65.0	70.0	75.5	
Enthalpy exchange efficiency (%)	Heating	62.0	65.0	70.5	A-weighted sound pressure level
	Cooling	52.0	56.0	62.5	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)	41.0	35.0	26.0	18.0	
Weight (kg)	96				

Characteristic Curves



Dimensions



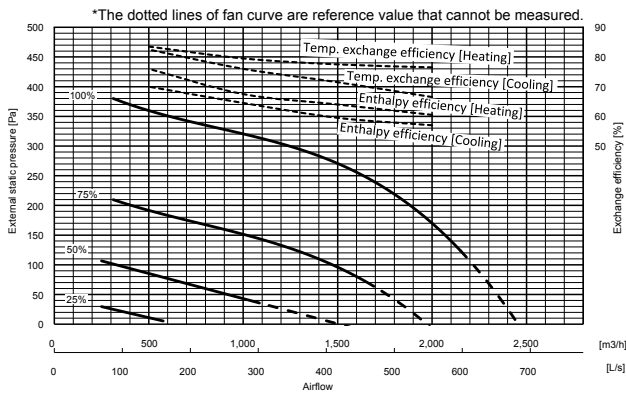
■ For LGH-RVX3 series

*The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.

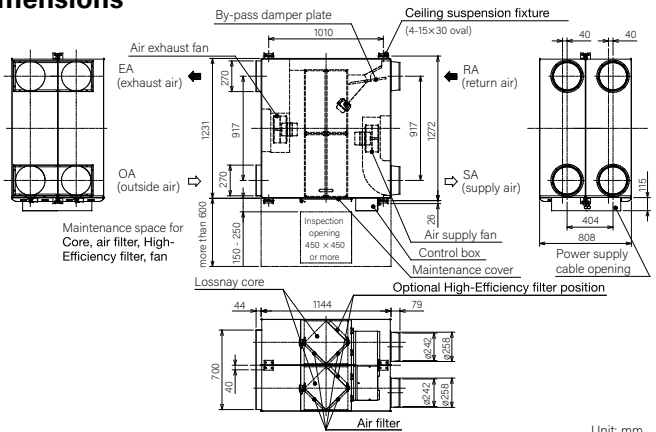
LGH-200RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz			
Fan speed		4	3	2	1
Default Airflow setting		100%	75%	50%	25%
Input power (W)		855	416	163	57
Airflow	(m³/h)	2000	1500	1000	500
	(L/s)	556	417	278	139
Specific fan power [W/(L/s)]		1.54	1.00	0.59	0.41
External static pressure (Pa)		170	96	43	11
Temperature exchange efficiency (%)	Heating	76.5	77.5	79.5	83.5
	Cooling	66.5	71.5	76.0	82.5
Enthalpy exchange efficiency (%)	Heating	60.5	64.0	67.5	76.0
	Cooling	57.0	59.5	64.5	70.0
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		41.5	36.0	27.5	18.0
Weight (kg)		108			

Characteristic Curves



Dimensions



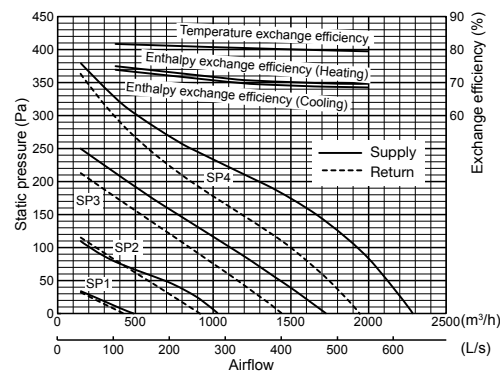
LGH-RVXT SERIES

Specifications

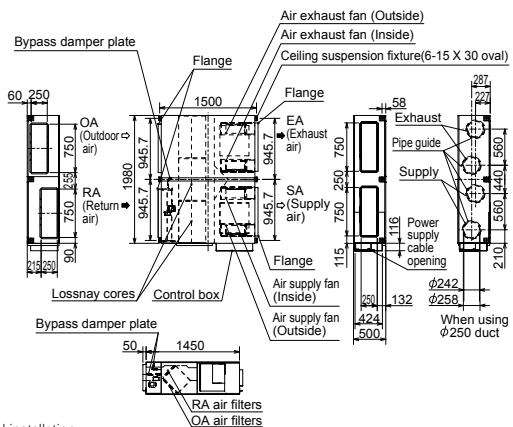
LGH-150RVXT-E

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	(m³/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



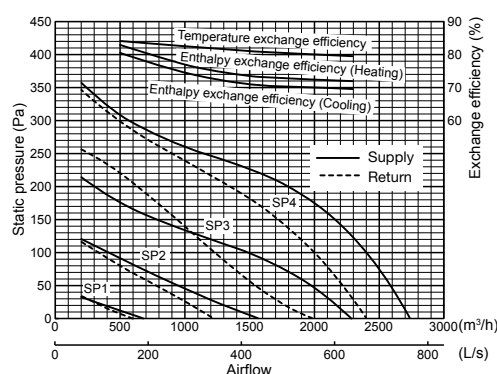
- For LGH-RVX3 series
- * The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.
- For LGH-RVXT series
- * The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz.
- * Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

Unit: mm

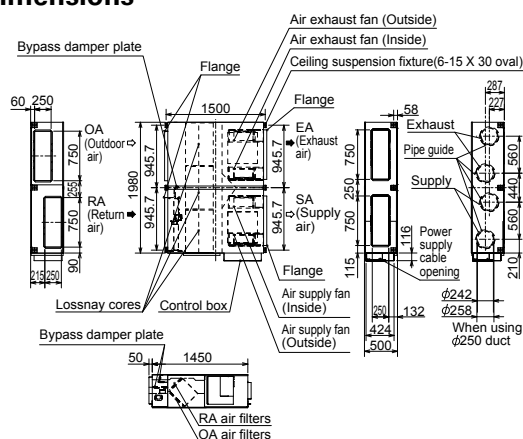
LGH-200RVXT-E

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	(m³/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

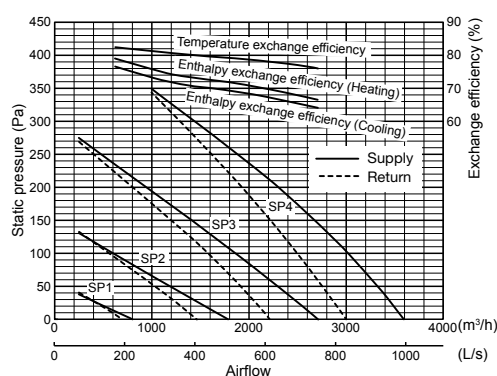


Unit: mm

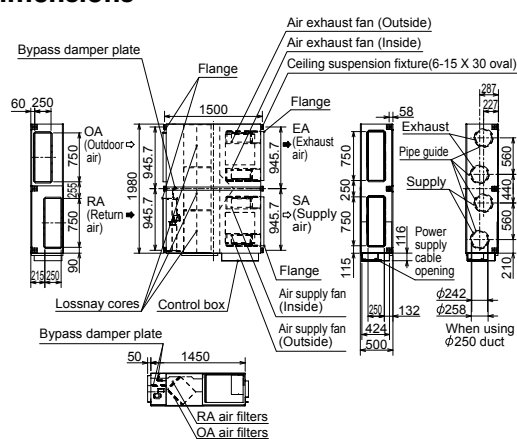
LGH-250RVXT-E

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	(m³/h)	2500	1875	1250	625	2500	1875	1250	625
	(L/s)	694	521	347	174	694	521	347	174
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 (%)		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	22.5
Weight (kg)		198							

Characteristic Curves



Dimensions



Unit: mm

■ For LGH-RVXT series

* The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz.

* Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

LGH-50RVS-E

Characteristic Curves



Weight		63kg (77kg with maximum drain water)					
Electrical power supply		220-240V/50Hz, 220V/60Hz					
Fan speed		100%	75%	50%	25%	Test condition ISO 16494 Temp. exchange efficiency is winter condition	
Input power (W)		325	175	85	32		
Airflow	(m³/h)	800	600	400	200		
	(L/s)	222	167	111	56		
Specific fan power [W/(L/s)]		1.46	1.05	0.77	0.58		
External static pressure (Pa)		170	96	43	11	A-weighted sound pressure level @1.5m off from the center of the unit in an anechoic chamber	
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				Tracer gas method @100% airflow (prEN308)	

Characteristic Curves

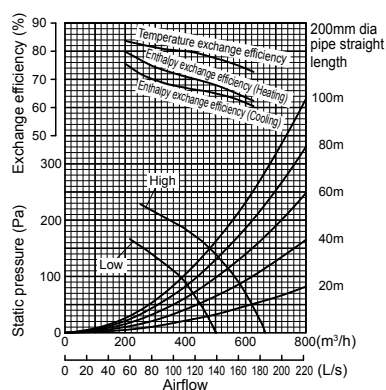


Example of the absolute humidity 0.0139kg/kg (DA) are 20.7°C 90% RH, 25°C 70%, 30°C 50% etc.

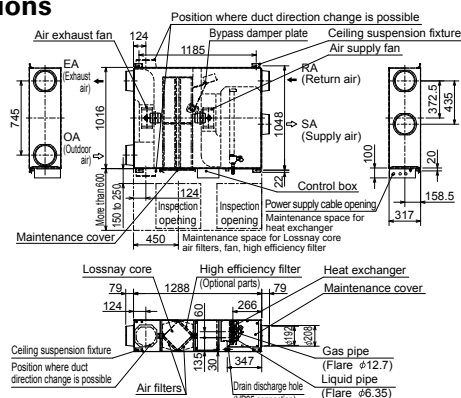
GUF-50RD4

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	(m³/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

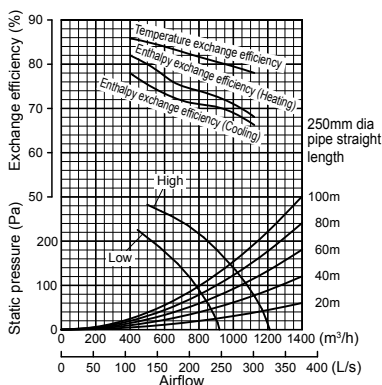


Unit: mm

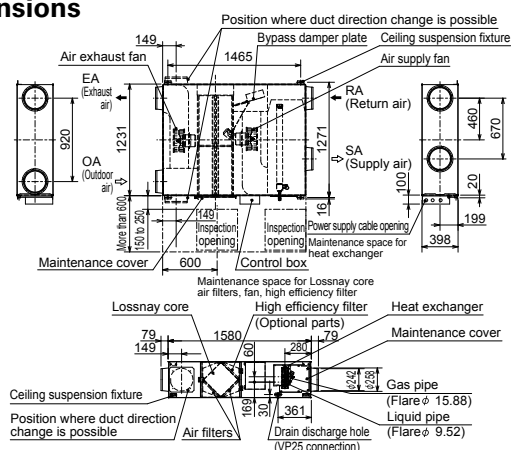
GUF-100RD4

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	(m³/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 exchange core.

*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 : 2.0×10^5 Pa Maximum pressure : 49.0×10^4 Pa			
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)			

Dimensions:

- Overall width: 745
- Core height: 1016
- Core depth: 180 (Note: More than 180)
- Maintenance cover height: 150 ± 2.5
- Core length: 450
- Top flange thickness: 124
- Internal duct diameter: 1185
- Bottom flange thickness: 124
- Core length (excluding covers): 1288
- Core width (excluding covers): 79
- Core depth (excluding covers): 79
- Core length (including covers): 1288
- Core width (including covers): 124
- Core depth (including covers): 124
- Core length (including covers): 1288
- Core width (including covers): 79
- Core depth (including covers): 79
- Core length (including covers): 1288
- Core width (including covers): 124
- Core depth (including covers): 124

Labels:

- Air exhaust fan
- EA (Exhaust air)
- O.A. (Outdoor air)
- Maintenance cover
- Position where duct direction change is possible
- Bypass damper plate
- Ceiling suspension fixture
- Air supply fan
- 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 φ1.72)
- Liquid pipe (Flare φ6.35)
- Water intake strainer (R1/2 of external thread)
- Air filters
- Drain discharge hole (VP25 connection)
- CEILING SUSPENSION FIXTURE
- POSITION WHERE DUCT DIRECTION CHANGE IS POSSIBLE

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)			

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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

Remote Controller Compatibility Table			
Model name	PZ-62DR-EA/EB		PZ-43SMF-E
Appearance			
Compatible series	LGH-RVX3/RVS	LGH-RVXT	LGH-RVX3/RVXT/RVS
Fan speed selection	4 fan speeds and Auto (Auto is available when using a CO ₂ sensor)	4 fan speeds	2 of 4 fan speeds
Control with a CO ₂ sensor (Mitsubishi Electric)	Yes (Fan speed automatically changes from 25% to 100% depending on the CO ₂ concentration*)	No	No
Control with a CO ₂ sensor (field supply)	Yes (Fan speed automatically changes from 25% to 100% depending on the CO ₂ concentration*)	Yes (Fan speed automatically changes 4 levels 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	Yes (Set in Function setting menu)	No
Multi-stage airflow control	Yes (Both supply and exhaust fan speeds can be set separately from 25% to 100% in 5% pitches)	No	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 (17 languages)	Yes (17 languages)	No (English only)
CO ₂ concentration indication	Yes (available when using a Mitsubishi Electric CO ₂ sensor)	No	No
Filter cleaning sign	Yes (Maintenance interval can be changed)	Yes	Yes
LOSSNAY core cleaning sign	Yes/No (RVS series)	Yes	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

*When using a CO₂ sensor. Upper and lower limits may be changed.

Filters & Accessories

Filters For LGH-RVX3 Series

PZ-**RF3-E Standard filter



Filter						LOSSNAY	
Filter material	Installation position	Classification		Model name	Piece/set included	Applicable model	Required set/unit
		ISO16890:2016	EN779: 2012				
Non-woven fabric	Before HEX	Coarse 60%	—	PZ-15RF3-E	2	LGH-15RVX3-E	1
				PZ-25RF3-E	2	LGH-25RVX3-E	1
				PZ-35RF3-E	2	LGH-35RVX3-E	1
				PZ-50RF3-E	2	LGH-50RVX3-E	1
				PZ-65RF3-E	2	LGH-65RVX3-E	1
				PZ-80RF3-E	2	LGH-80RVX3-E	1
						LGH-160RVX3-E	2
				PZ-100RF3-E	2	LGH-100RVX3-E	1
						LGH-200RVX3-E	2

PZ-**RFP3-E ePM1 75% filter



Filter						LOSSNAY	
Filter material	Installation position	Classification		Model name	Piece/set included	Applicable model	Required set/unit
		ISO16890:2016	EN779: 2012				
Pleated filter	After HEX	ePM1 75%	—	PZ-15RFP3-E	1	LGH-15RVX3-E	1
				PZ-25RFP3-E	2	LGH-25RVX3-E	1
				PZ-35RFP3-E	2	LGH-35RVX3-E	1
				PZ-50RFP3-E	2	LGH-50RVX3-E	1
				PZ-65RFP3-E	2	LGH-65RVX3-E	1
				PZ-80RFP3-E	2	LGH-80RVX3-E	1
						LGH-160RVX3-E	2
				PZ-100RFP3-E	2	LGH-100RVX3-E	1
						LGH-200RVX3-E	2

PZ-**RFM3-E M6 filter



Filter						LOSSNAY	
Filter material	Installation position	Classification		Model name	Piece/set included	Applicable model	Required set/unit
		ISO16890:2016	EN779: 2012				
Pleated filter	Before HEX	—	M6	PZ-15RFM3-E	1	LGH-15RVX3-E	1
				PZ-25RFM3-E	2	LGH-25RVX3-E	1
				PZ-35RFM3-E	2	LGH-35RVX3-E	1
				PZ-50RFM3-E	2	LGH-50RVX3-E	1
				PZ-65RFM3-E	2	LGH-65RVX3-E	1
				PZ-80RFM3-E	2	LGH-80RVX3-E	1
						LGH-160RVX3-E	2
				PZ-100RFM3-E	2	LGH-100RVX3-E	1
						LGH-200RVX3-E	2

PZ-**RFH3-E F8 filter



Filter						LOSSNAY	
Filter material	Installation position	Classification		Model name	Piece/set included	Applicable model	Required set/unit
		ISO16890:2016	EN779: 2012				
Pleated filter	After HEX	—	F8	PZ-15RFH3-E	1	LGH-15RVX3-E	1
				PZ-25RFH3-E	2	LGH-25RVX3-E	1
				PZ-35RFH3-E	2	LGH-35RVX3-E	1
				PZ-50RFH3-E	2	LGH-50RVX3-E	1
				PZ-65RFH3-E	2	LGH-65RVX3-E	1
				PZ-80RFH3-E	2	LGH-80RVX3-E	1
						LGH-160RVX3-E	2
				PZ-100RFH3-E	2	LGH-100RVX3-E	1
						LGH-200RVX3-E	2

Filters For LGH-RVXT Series & GUF Series

Standard Filters

Replacements for the standard filter supplied with the LOSSNAY main unit.



Filter Material	Filter Classification		Model Name	Included piece/set	LOSSNAY	
	ISO16890:2016	EN779:2012			Applicable model	Required filter pieces
Non-woven fabric	Coarse 35%	G3*	PZ-50RFa-E	4	GUF-50RD4, GUF-50RDH4	4
			PZ-100RFa-E	4	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 Material	Filter Classification		Model Name	Included piece/set	LOSSNAY	
	ISO16890:2016	EN779:2012			Applicable model	Required filter pieces
Synthetic fiber	ePM ₁₀ 75%	M6*	PZ-50RFM-E	2	GUF-50RD4, GUF-50RDH4	2
			PZ-100RFM-E	2	GUF-100RD4, GUF-100RDH4	2

*The classification in EN779 (2002) is F7.

Advanced High-efficiency Filters (For 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 Material	Filter Classification		Model Name	Included piece/set	LOSSNAY	
	ISO16890:2016	EN779:2012			Applicable model	Required filter pieces
Synthetic fiber	ePM ₁ 75% ePM _{2.5} 80% ePM ₁₀ 95%	—	PZ-50RFPz-E	2	GUF-50RD4, GUF-50RDH4	2
			PZ-100RFPz-E	2	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 Material	Filter Classification		Model Name	Included piece/set	LOSSNAY	
	ISO16890:2016	EN779:2012			Applicable model	Required filter pieces
Non-woven fabric	ePM ₁₀ 75%	M6*	PZ-M6RTFM-E	3	LGH-150RVXT-E, LGH-200RVXT-E, LGH-250RVXT-E	3
			PZ-F8RTFM-E	3		
	ePM ₁ 65% ePM _{2.5} 75% ePM ₁₀ 90%	F8*	PZ-M6TDF-E	3		
			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 material	Filter Classification		Model name	Included piece/set	LOSSNAY	
	ISO 16890 (2016)	EN779 (2012)			Applicable model	Required set/unit
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 material	Filter Classification		Model name	Included piece/set	LOSSNAY	
	ISO 16890 (2016)	EN779 (2012)			Applicable model	Required set/unit
Pleated filter	ePM ₁₀ 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 material	Filter Classification		Model name	Included piece/set	LOSSNAY	
	ISO 16890 (2016)	EN779 (2012)			Applicable model	Required set/unit
Pleated filter	ePM ₁₀ 90% ePM _{2.5} 75% ePM ₁ 65%	F8	PZ-S50RFH-E	2	LGH-50RVS-E	1
			PZ-S80RFH-E	2	LGH-80RVS-E	1
			PZ-S100RFH-E	2	LGH-100RVS-E	1

Accessories For LGH-RVX3/RVS Series

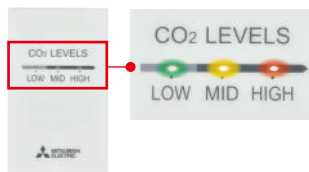
CO₂ Sensor

A CO₂ sensor connected directly to a LOSSNAY RVX3/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-70CSD-E

(Duct-mounted type)



■ Automatic operation with CO₂ sensor

Fan speed automatically changes depending on CO₂ concentration.

Accessories For LGH-RVX3/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.



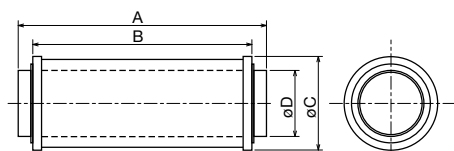
Specifications

Model	Airflow [m ³ /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

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

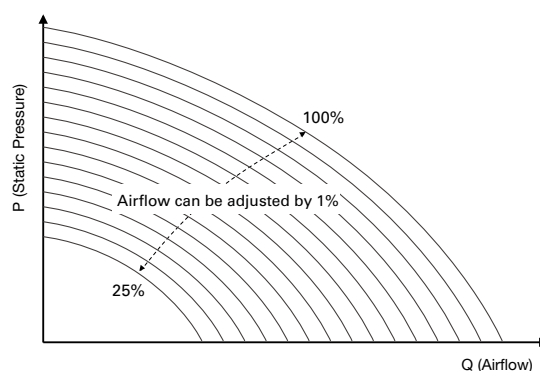
Under regulation (EU) No. 1254/2014, the VL-CZPVU series has the highest energy-saving performance in its class (ErP A⁺). It saves heating and cooling costs by minimizing the energy loss that occurs during ventilation.

ErP A⁺

A⁺

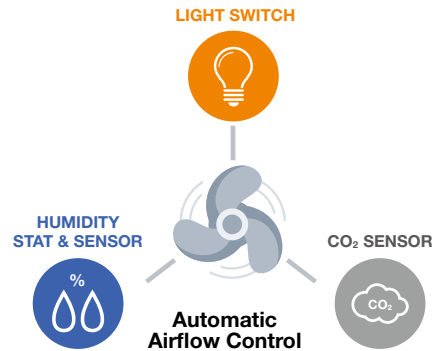
Variable airflow control

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.



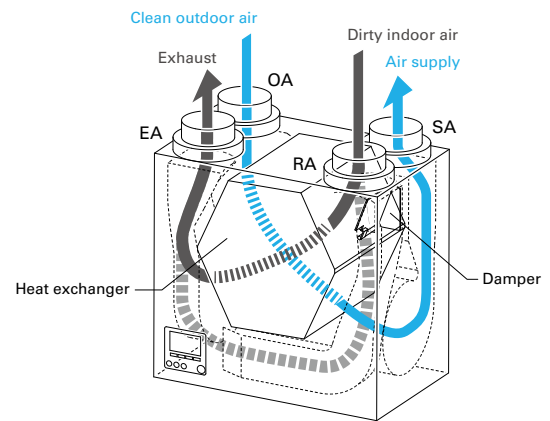
External airflow control

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)



VL-CZPVU SERIES

Specifications

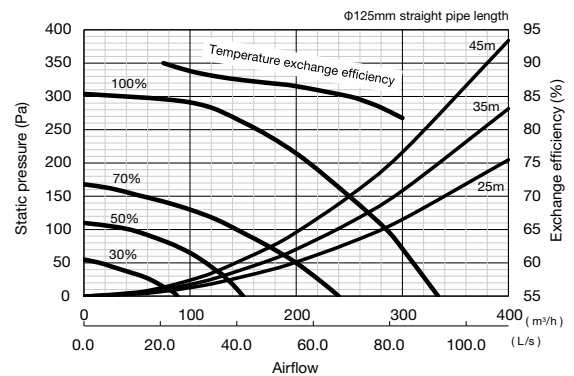
VL-250CZPVU-R/L-E

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
Temperature Exchange Efficiency (%)		85	87	88
Noise Level (dB)		31	22	16
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

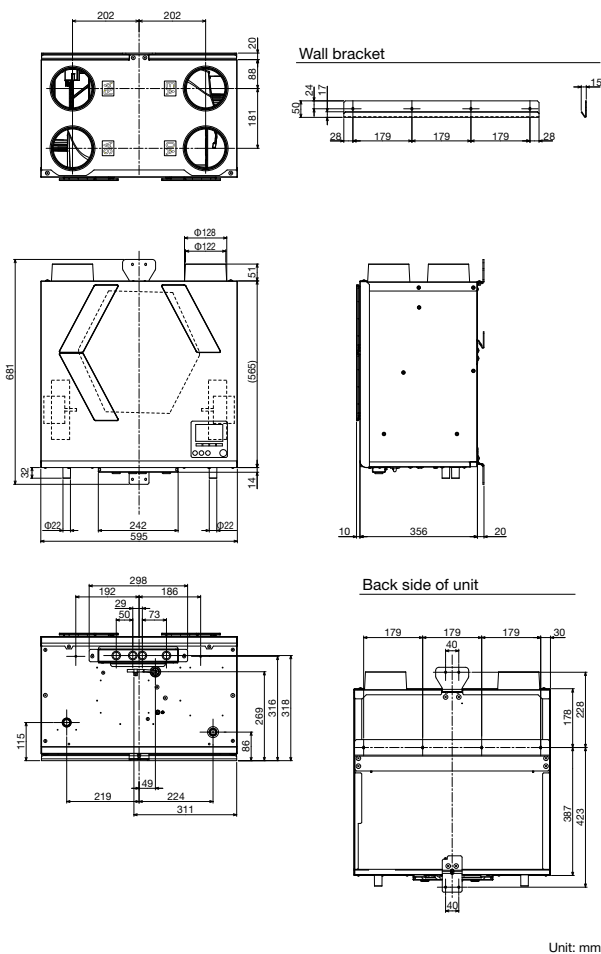


■ Attention

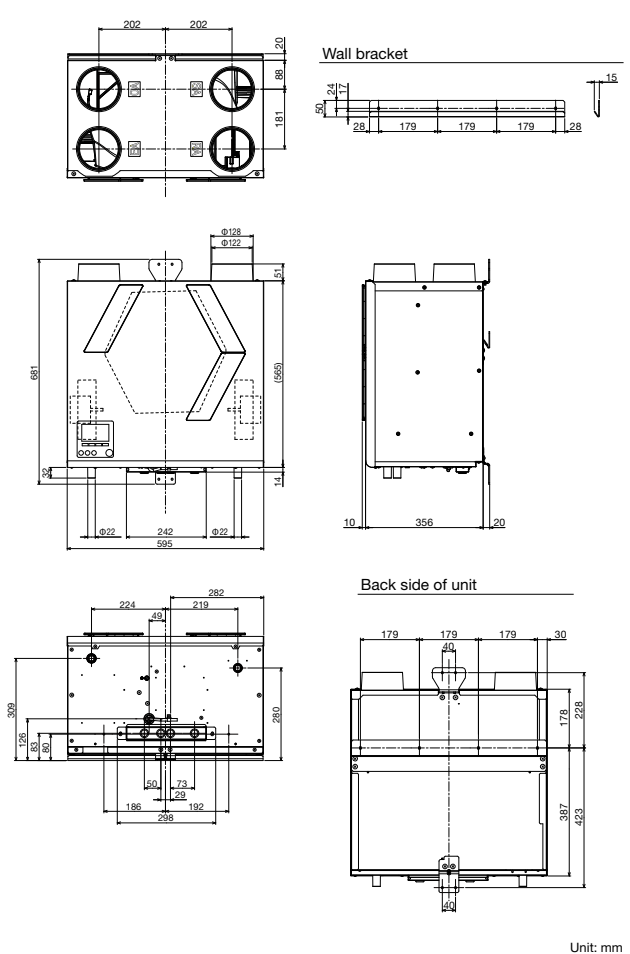
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Dimensions

VL-250CZPVU-R-E



VL-250CZPVU-L-E



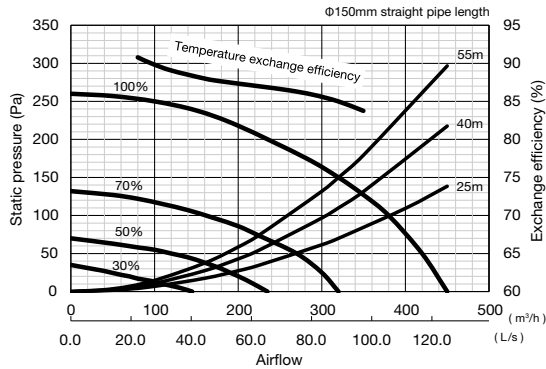
VL-350CZPVU-R/L-E

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

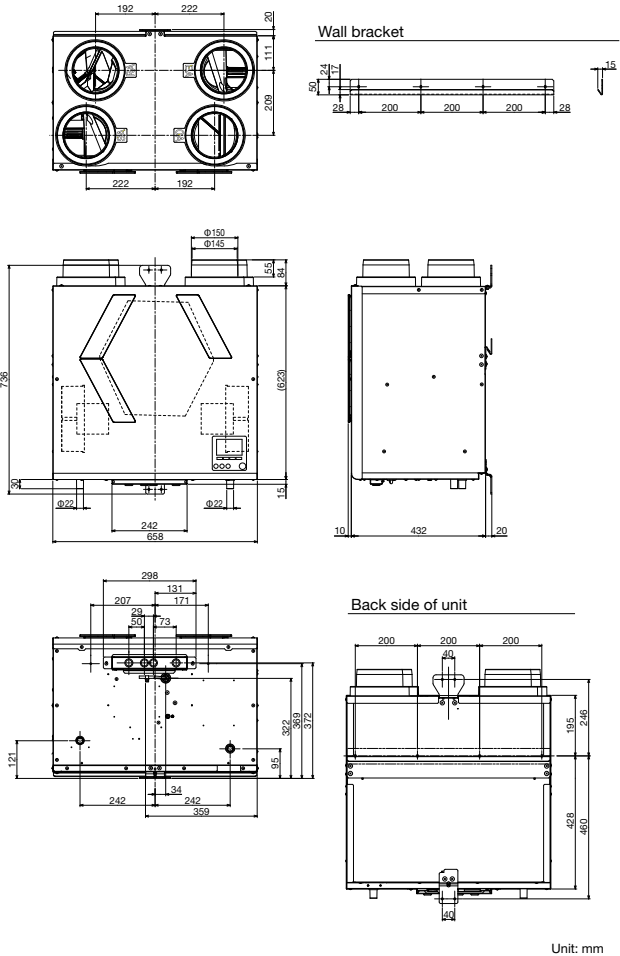


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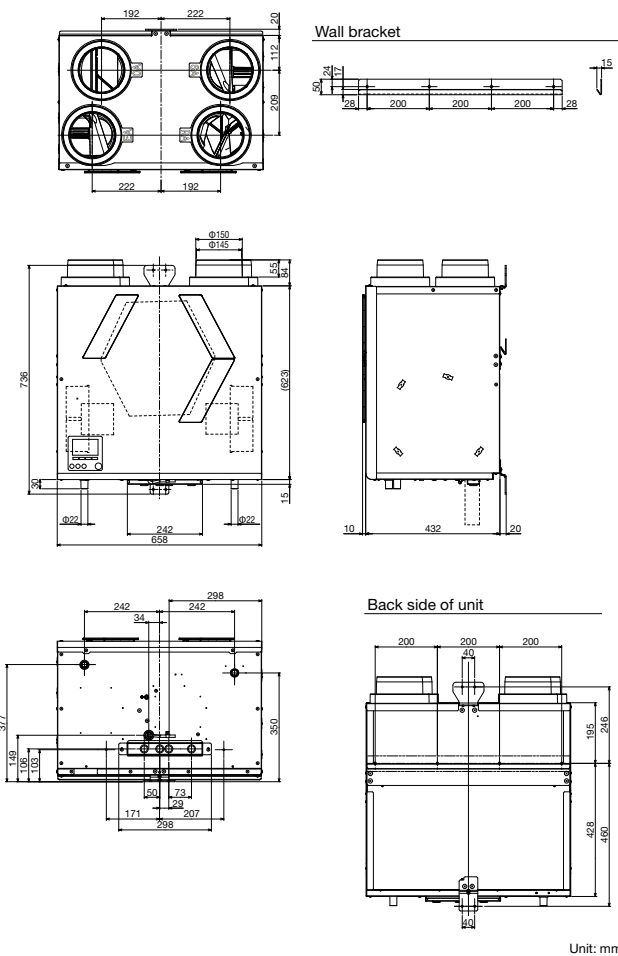
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Dimensions

VL-350CZPVU-R-E



VL-350CZPVU-L-E



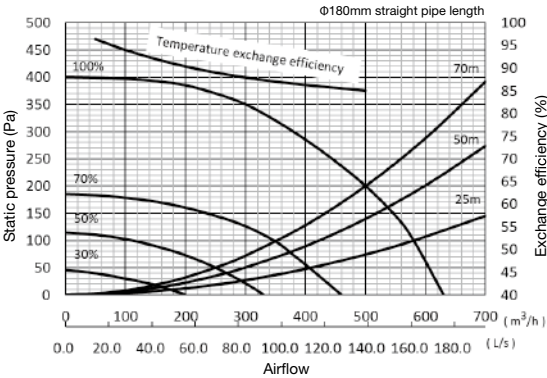
VL-500CZPVU-R/L-E

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

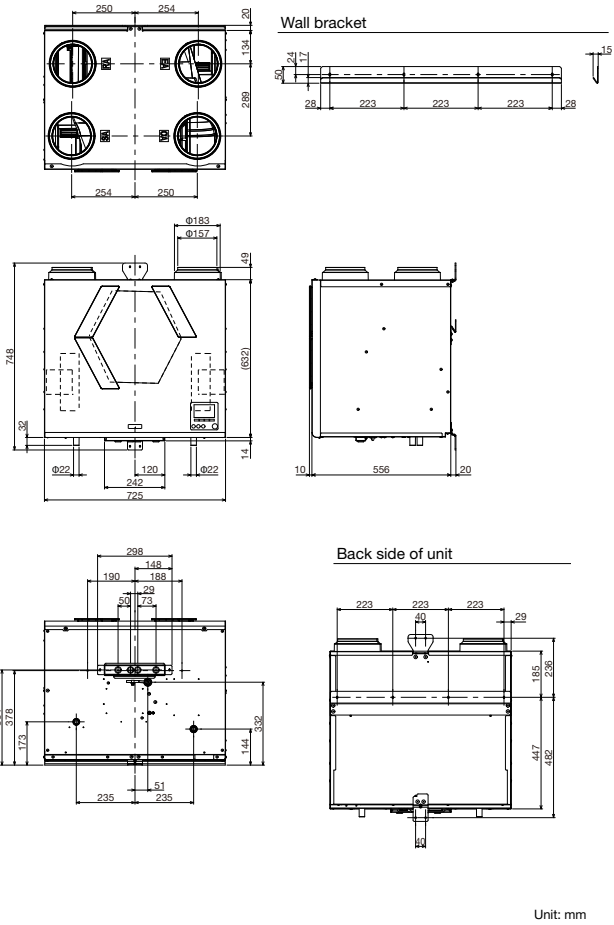


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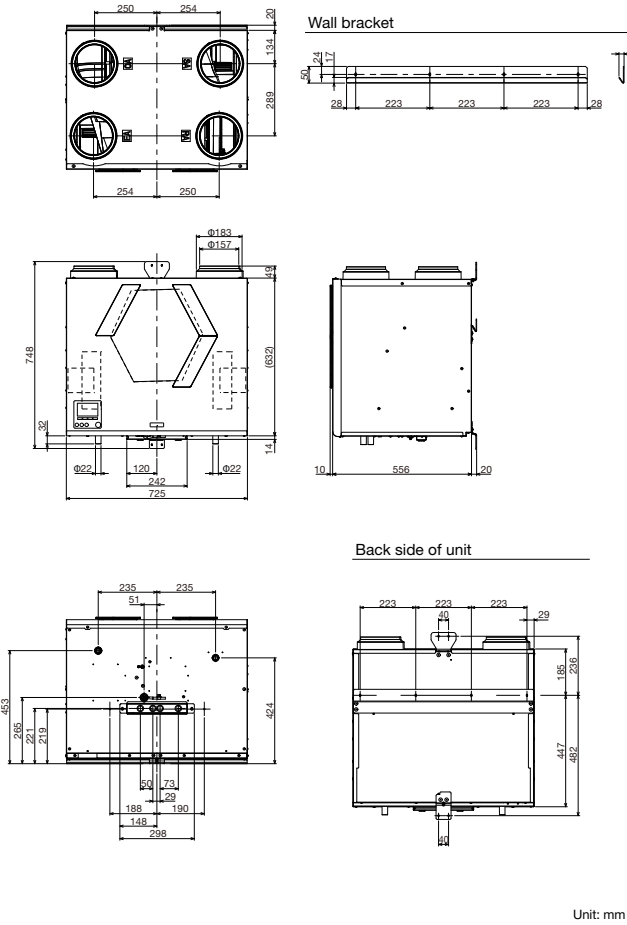
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Dimensions







VL-500CZPVU-R-E



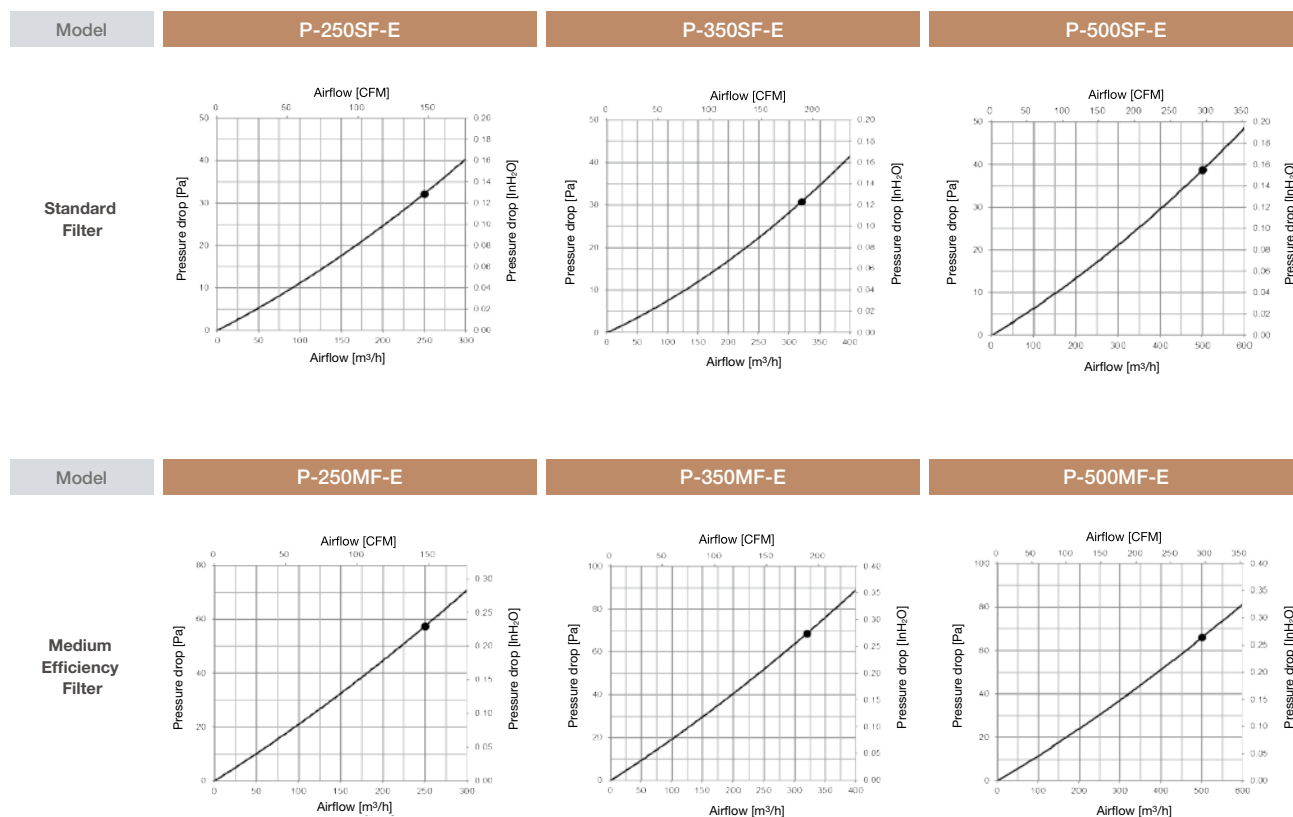
VL-500CZPVU-L-E



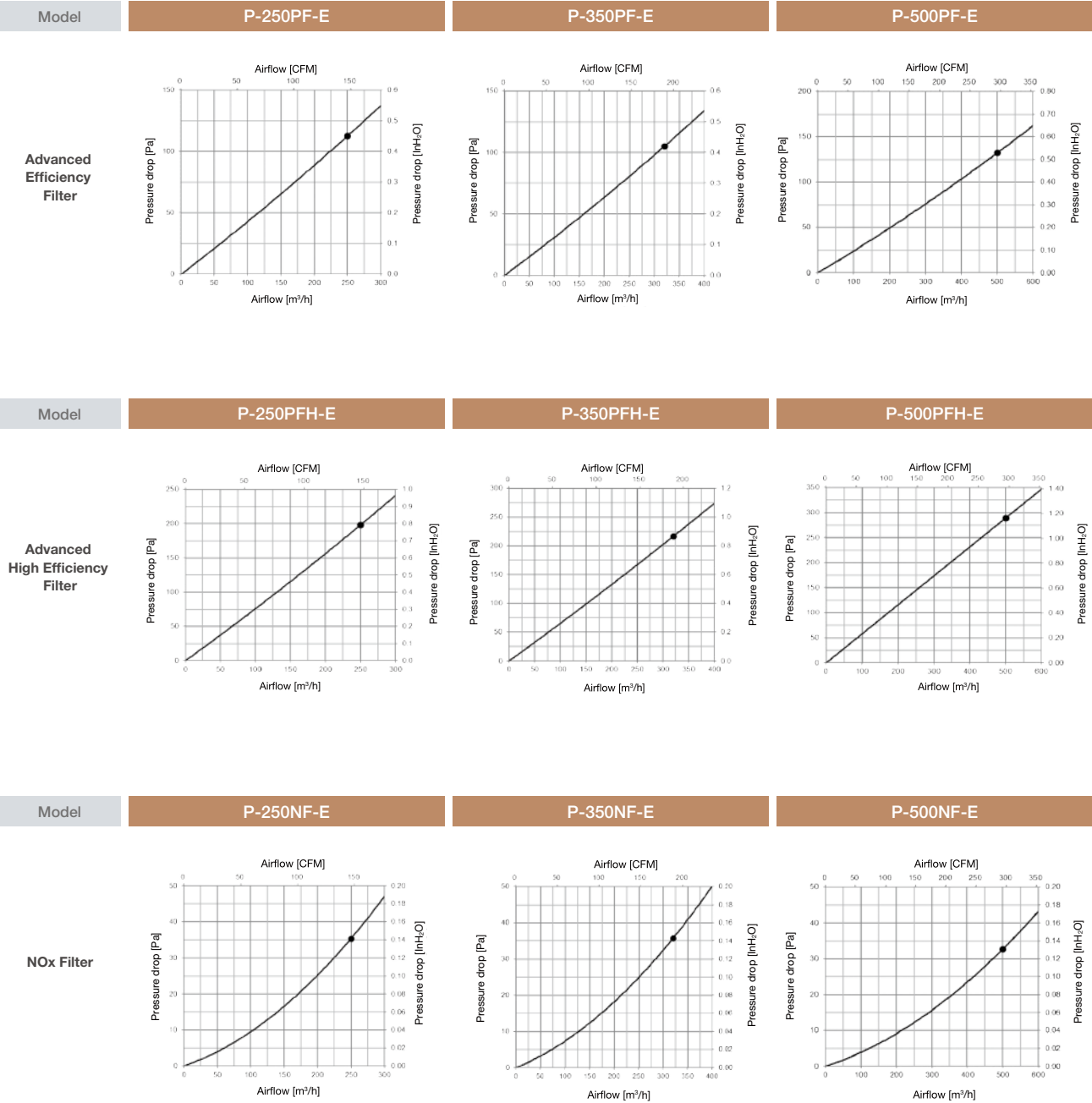
Filters

Type	Replacement Filter	Standard Filter	Medium Efficiency Filter	Advanced Efficiency Filter	Advanced High Efficiency Filter	NOx Filter	
							
Model	P-250F-E	P-250SF-E	P-250MF-E	P-250PF-E	P-250PFH-E	P-250NF-E	
	P-350F-E	P-350SF-E	P-350MF-E	P-350PF-E	P-350PFH-E	P-350NF-E	
	P-500F-E	P-500SF-E	P-500MF-E	P-500PF-E	P-500PFH-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

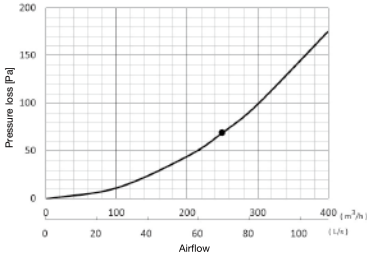
■ Attenuation of sound power level for center frequency

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

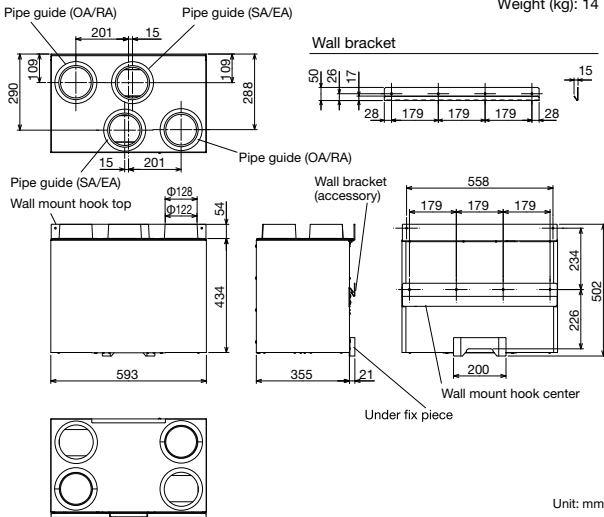
- Figures in the chart above are measured by Mitsubishi Electric.
- The silencer box is placed just after the outlet of the LOSSNAY unit as specified in the Installation Manual.
- When airflow differs, attenuation may also differ from the chart above.

■ 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

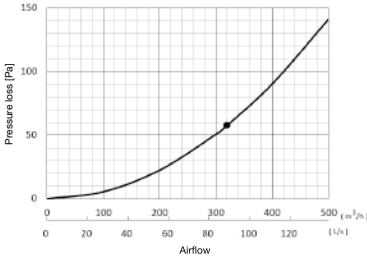
■ Attenuation of sound power level for center frequency

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

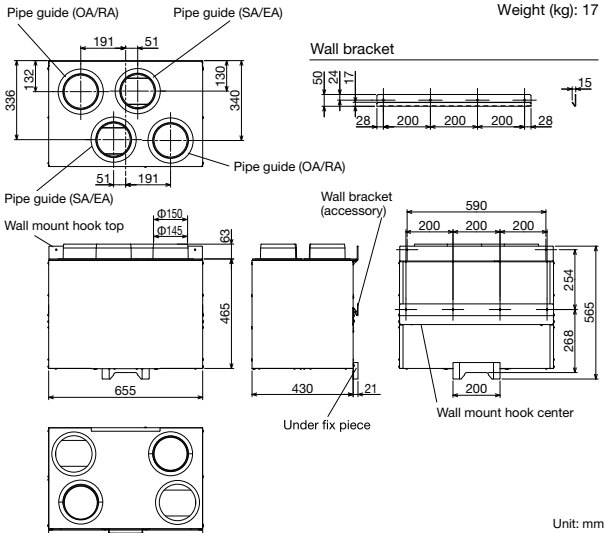
- Figures in the chart above are measured by Mitsubishi Electric.
- The silencer box is placed just after the outlet of the LOSSNAY unit as specified in the Installation Manual.
- When airflow differs, attenuation may also differ from the chart above.

■ 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

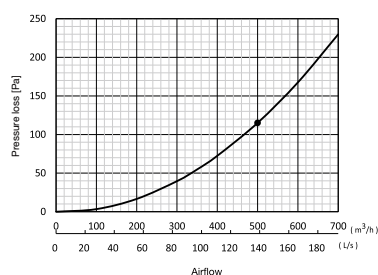
■ Attenuation of sound power level for center frequency

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

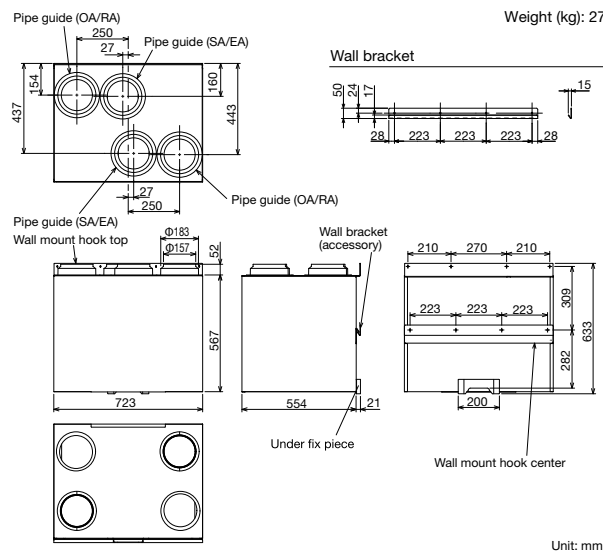
- Figures on the chart above are measured by Mitsubishi Electric.
- The silencer box is placed on the just after the outlet of the LOSSNAY unit as specified in the Installation Manual.
- When the airflow differs, the attenuation may be also different from the chart above.

■ 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

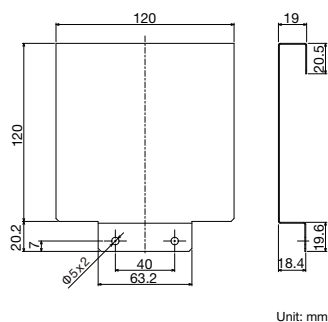


Remote Controller Cover

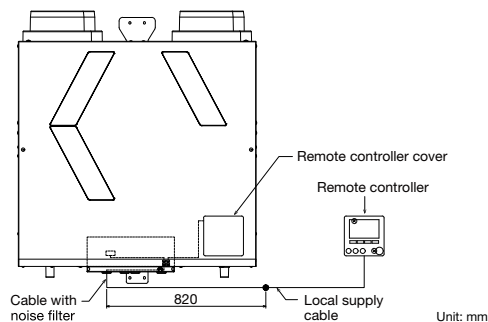
P-RCC-E

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



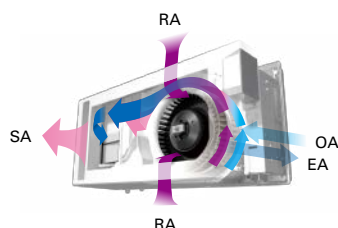
VL-100(E)U₅-E

Decentralized ventilation: VL-50(E)S₂-E, VL-50SR₂-E and VL-100(E)U₅-E

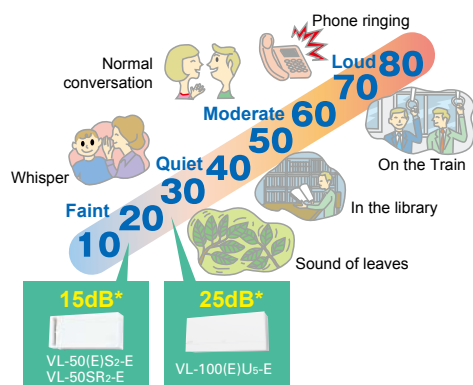
Product advantages

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

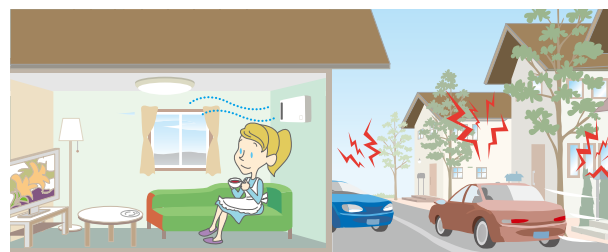
- Total heat exchange minimizes heat loss.
- Achieve over 80% * temperature efficiency.

*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

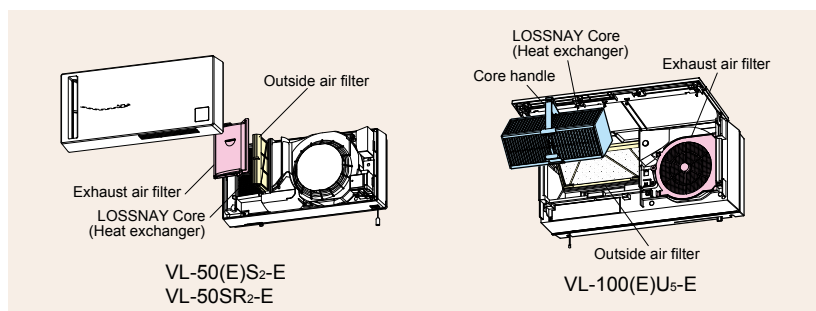
*Tested based on VL-08S₂-AE

*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.

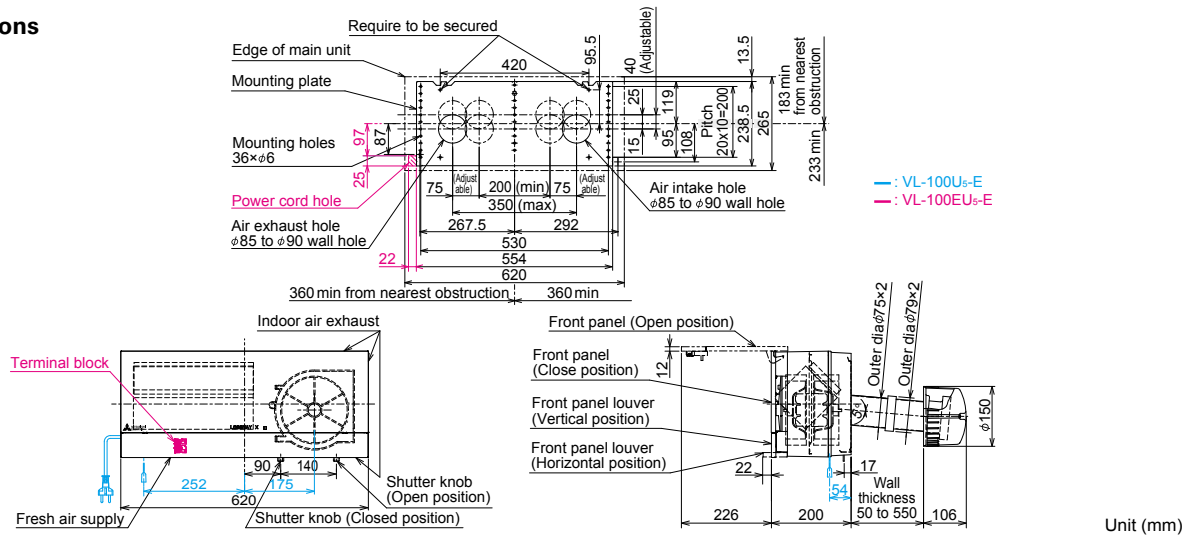


Model: VL-100U₅-E (Pull-Switch Model) and VL-100EU₅-E (Wall-Switch Model)

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%	-	-

PLASMA QUAD PROTECT

Features and Concepts

Reliable purification performance

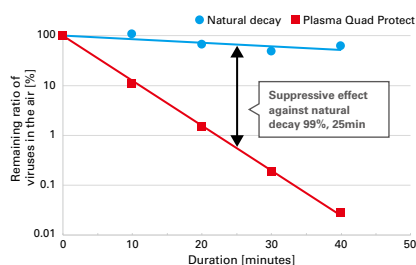
JC-23KR-EU is equipped with a glass fiber HEPA filter rated as an EN1822 H13 grade filter. This product has a CADR (Clean Air Delivery Rate) value of 254m³/h (Pollen), 222m³/h (Dust) and 238m³/h (Smoke).



Tests report results

Suppresses viruses

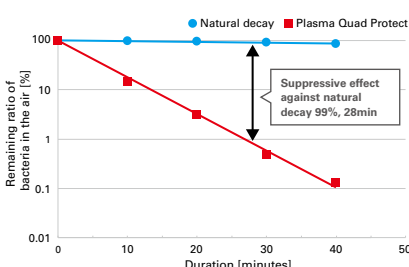
Test result of operating the unit with an air volume of 230m³/h in a 25m³ closed space: 99% suppression in 25 minutes. This result does not represent the product's performance in a practical operating environment.



[Testing laboratory] Kitasato Research Center for Environmental Science
[Testing method] Spraying virus in 25m³ of closed space, collecting the air in the space after a certain period of time, and measuring the amount of virus in the air.
[Condition] Operating JC-23KR-EU with an air volume of 230m³/h, 1 type of virus
[Result] 99% suppression after 25min.
Test Report No.2022_0421

Suppresses bacteria

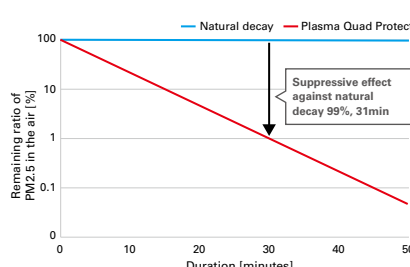
Test result of operating the unit with an air volume of 230m³/h in a 25m³ closed space: 99% suppression in 28 minutes. This result does not represent the product's performance in a practical operating environment.



[Testing laboratory] Kitasato Research Center for Environmental Science
[Testing method] Spraying bacteria in 25m³ of closed space, collecting the air in the space after a certain period of time, and measuring the amount of bacteria in the air.
[Condition] Operating JC-23KR-EU with an air volume of 230m³/h, 1 type of bacteria
[Result] 99% suppression after 28min.
Test Report No.2022_0420

Removes 99% PM2.5

Test result of operating the unit with an air volume of 230m³/h in a 27.5m³ closed space: 99% suppression in 31 minutes. PM2.5 is a general term for fine particulate matter of 2.5μm or less.

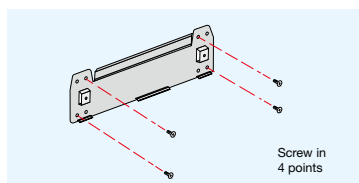


[Testing method] According to JEM1467. Operating JC-23KR-EU (230m³/h, 31min.) in a closed space of 27.5m³. Additional particle from outside is not considered. This result does not represent the product's performance in an actual operating environment.

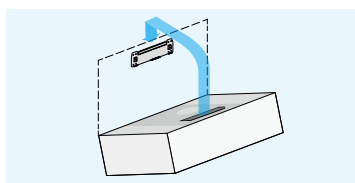
Easy, space-saving installation

Quick and easy installation, space-saving and design that compliments any interior.

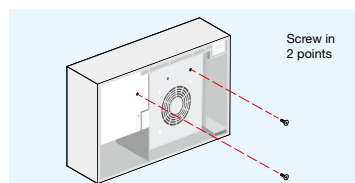
- 1 Attach the mounting plate to the wall by screwing in 4 points.



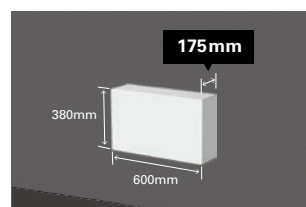
- 2 Hook the unit onto the mounting plate.



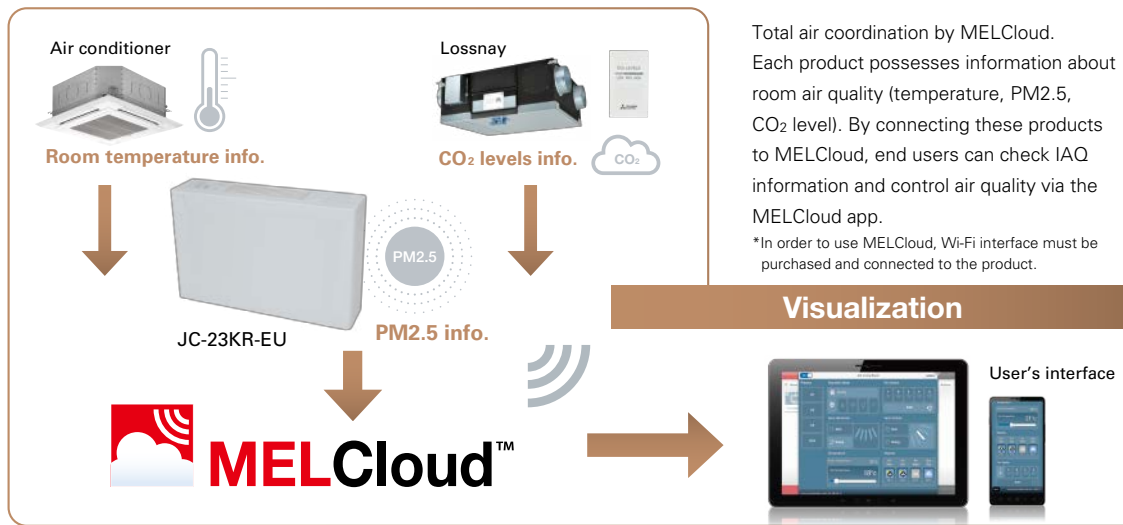
- 3 Screw in 2 points to secure the unit to the mounting plate.



With a depth of just 175mm, the unit can be installed on the wall and save floor space in the room. Its simple appearance matches any wall color or furniture.



New MELCO package solution



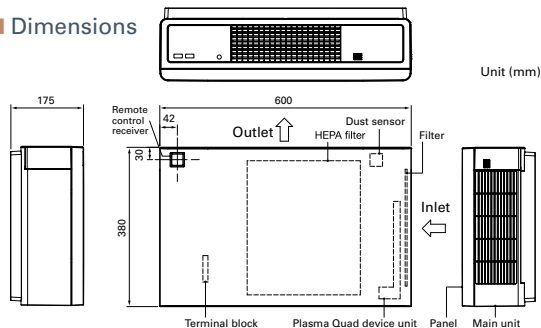
Specifications

Model	Voltage	Fan speed	Power consumption [W]	Air volume [m ³ /h]	Noise level [dB]	Weight [kg]
JC-23KR-EU	220V	Silent	8	20	34	8.5
		Powerful	63.5	230	72	
	230V	Silent	8	20	34	
		Powerful	63.5	230	72	
	240V	Silent	8	20	34	
		Powerful	63.5	230	72	

JC-23KR-EU has an Auto mode.

This product adjusts air volume according to the quantity of dust detected by the dust sensor.

Dimensions



Replacement HEPA filter



P-23KHF-E

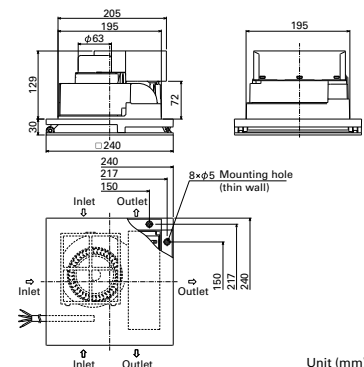
Small air volume type

JC-4K-EU



- 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	

Optional parts list

Optional Parts		LOSSNAY	LGH-15RVX3-E	LGH-25RVX3-E	LGH-35RVX3-E	LGH-50RVX3-E	LGH-65RVX3-E	LGH-80RVX3-E	LGH-100RVX3-E	LGH-160RVX3-E	LGH-200RVX3-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 (Coarse 60%)	PZ-15RF3-E		●																		
	PZ-25RF3-E			●																	
	PZ-35RF3-E				●																
	PZ-50RF3-E					●															
	PZ-65RF3-E						●														
	PZ-80RF3-E							●		●											
	PZ-100RF3-E								●		●										
ePM1 75% Filters	PZ-15RFP3-E		●																		
	PZ-25RFP3-E			●																	
	PZ-35RFP3-E				●																
	PZ-50RFP3-E					●															
	PZ-65RFP3-E						●														
	PZ-80RFP3-E							●		●											
	PZ-100RFP3-E								●		●										
M6 Filters	PZ-15RFM3-E		●																		
	PZ-25RFM3-E			●																	
	PZ-35RFM3-E				●																
	PZ-50RFM3-E					●															
	PZ-65RFM3-E						●														
	PZ-80RFM3-E							●		●											
	PZ-100RFM3-E								●		●										
F8 Filters	PZ-15RFH3-E		●																		
	PZ-25RFH3-E			●																	
	PZ-35RFH3-E				●																
	PZ-50RFH3-E					●															
	PZ-65RFH3-E						●														
	PZ-80RFH3-E							●		●											
	PZ-100RFH3-E								●		●										
Standard Filters	PZ-50RF8-E														●	●					
	PZ-100RF8-E																●	●			
	PZ-150RTF-E											●									
	PZ-250RTF-E												●	●							
	PZ-S50RF-E																		●		
	PZ-S80RF-E																			●	
	PZ-S100RF-E																				●
High-efficiency Filters	PZ-50RFM-E														●	●					
	PZ-100RFM-E																●	●			
	PZ-S50RFM-E																		●		
	PZ-S80RFM-E																			●	
	PZ-S100RFM-E																				●
Advanced High-efficiency Filters	PZ-50RFP2-E														●	●					
	PZ-100RFP2-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-70CSD-E		●	●	●	●	●	●	●	●									●	●	●
	PZ-70CSW-E		●	●	●	●	●	●	●	●									●	●	●
Vertical installation parts	PZ-1VS-E		●	●	●	●															
	PZ-2VS-E					●	●	●													
Signal output terminal	PZ-4GS-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			
	Type	Classification (EN779:2012)	Classification (ISO16890)	Model	VL-250CZPVU-R/L-E	VL-350CZPVU-R/L-E	VL-500CZPVU-R/L-E	
Filter	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			●	
	NoxFILTER		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-50S2-E	VL-50ES2-E	VL-50SR2-E	VL-100U5-E	VL-100EU5-E
	Replacement Filter	G3	Coarse 35%	P-50F2-E	●	●	●		
				P-100F5-E				●	●
	High Efficiency Filter	M6	ePM10 75%	P-50HF2-E	●	●	●		
				P-100HF5-E				●	●
Extension Pipe				P-50P-E	●	●	●		
				P-100P-E				●	●
Joint				P-50PJ-E	●	●	●		
				P-100PJ-E				●	●
Stainless Hood				P-50VSQ5-E	●	●	●		