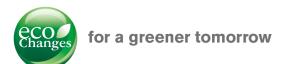


- Do not install indoor units in areas (e.g., mobile phone base stations) where the emission of VOCs such as phthalate compounds and formaldehyde is known to be high as this may result in a chemical reaction.
- Our air-conditioning equipments and heat pumps contain a fluorinated greenhouse gas, R410A.
- When installing or relocating or servicing the air conditioners, use only the specified refrigerant (R410A) 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.



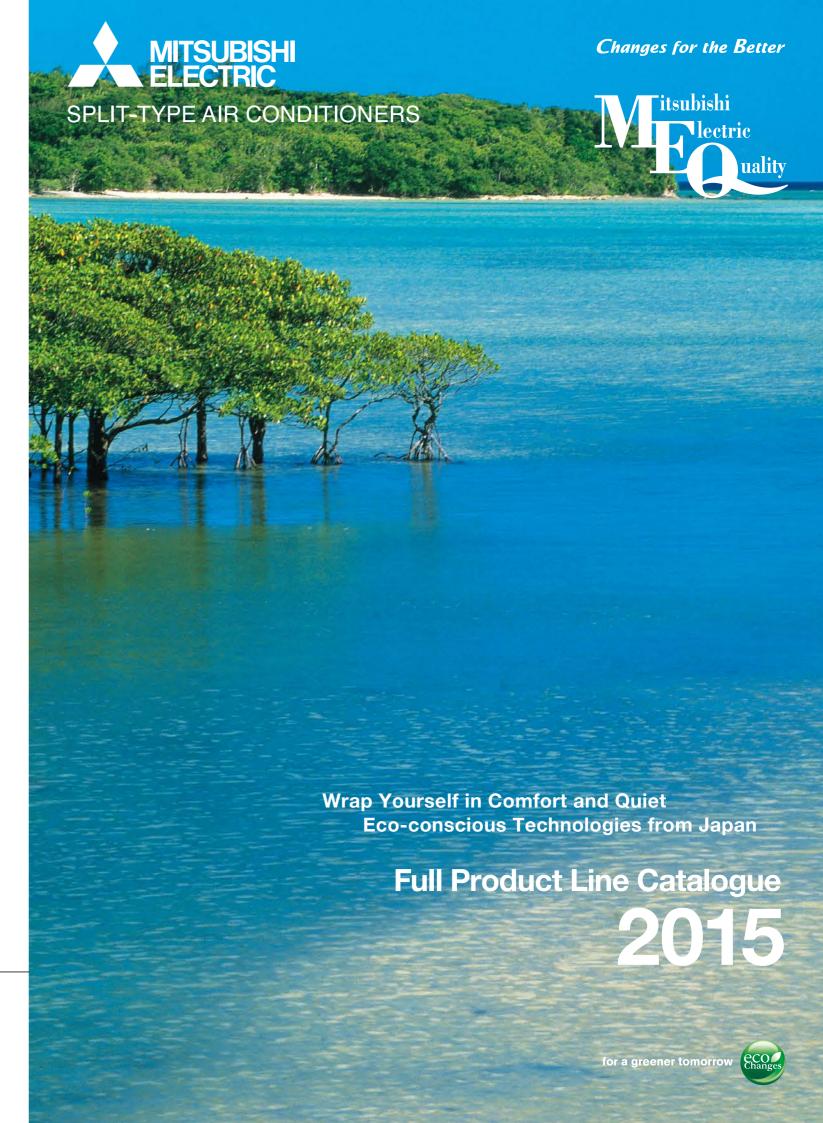
Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

MITSUBISHI ELECTRIC CORPORATION

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





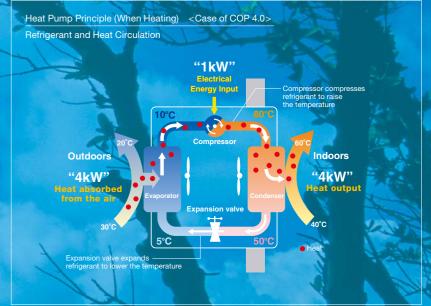




Mitsubishi Electric reflects the essence of this policy and vision in all aspects of its air conditioner business as well.

Preventing Global Warming

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



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

	Comfort	Ecology
1. Inverter	Faster start-up and more stable indoor temperature than non-inverter units.	Fewer On/Off operations than with non-inverter, saving energy.
2. i-see Sensor	Monitoring the temperature gaps between the floor and the set temperature to prevent deficient warming.	Optimum control of the airflow to prevent excessive compressor operation for more efficient heating operation.
3. Flash Injection	Achieves high heating capacity even at low temperatures, plus faster start-up compared to conventional inverters.	Expands the region covered by heat pump heating system.

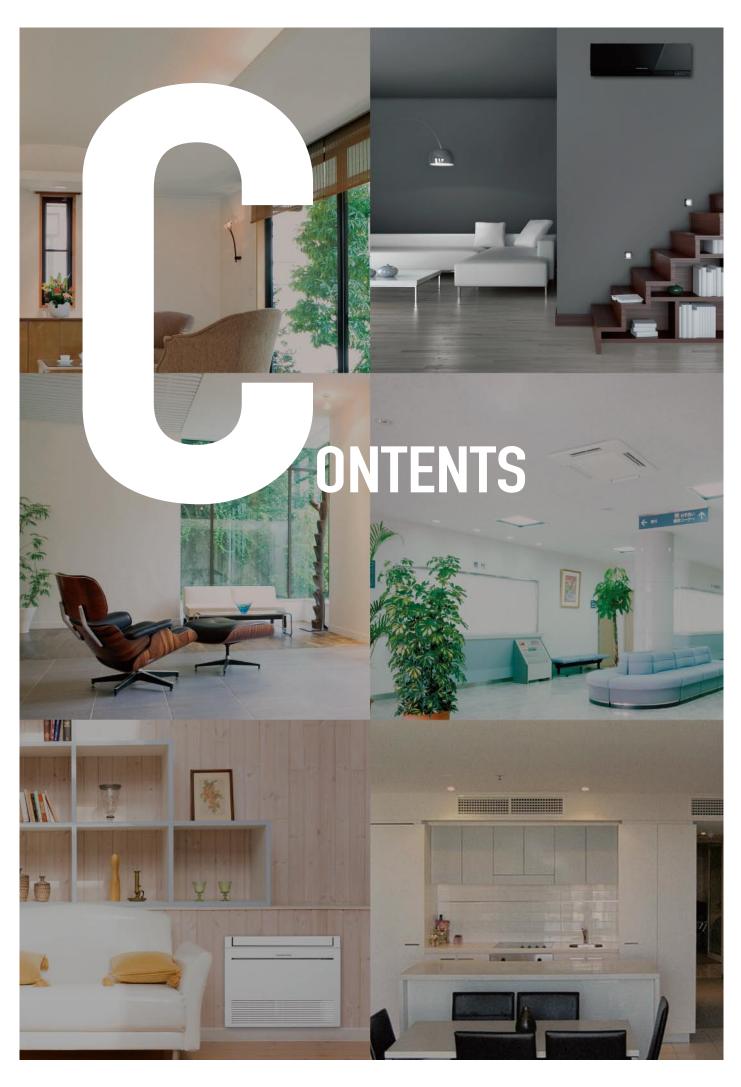
Creating a Recycling-Based Society

- 1. All models are designed for RoHS and WEEE compliance.*
- 2. Mitsubishi Electric develops downsizing technology to reduce materials use.

WEEE and RoHS directives: The Waste Electrical and Electronic Equipment (WEEE) Directive is a recycling directive for this type of equipment, while the Restrictions of Hazardous Substances (RoHS) Directive is an EU directive restricting the use of six specified substances in electronic and electrical devices. In the EU, it is no longer possible (from July 2006) to sell products containing any of the six substances.

Ensuring Harmony with Nature / Fostering Environmental Awareness

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



Air Conditioners	
LINE-UP	005-008
NEW ECODESIGN DIRECTIVE	009-010
INVERTER TECHNOLOGIES	011-012
FEATURES	013-018
FUNCTION LIST	019-022
CONTROL TECHNOLOGIES	023-028
M SERIES	029-048
S SERIES	049-054
P SERIES	055-080
POWERFUL HEATING SERIES	081-094
MULTI SPLIT SERIES	095-104
OPTIONAL PARTS	105-110
EXTERNAL DIMENSIONS	111-125
PIPING INSTALLATION	126-132
AIR-TO-WATER	
FEATURES & SPECIFICATIONS	133-150
LOSSNAY SYSTEM	
FEATURES & SPECIFICATIONS	151_142

LINE-UP

M SERIES

INVERTER Models

		1.5kW	1.8kW	2.0kW	2.2kW	2.5kW	3.5kW	4.2kW	5.0kW	6.0kW	7.1kW	Page
Model Nam	ie	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	гауе
	MSZ-F Series					SINGLE	SINGLE		SINGLE			31
	MSZ-E Series		MXZ connection only		MXZ connection only	SINGLE	SINGLE H	SINGLE	SINGLE			35
Wall-	MSZ-S Series	MXZ connection only		MXZ connection only								37
mounted						SINGLE	SINGLE	SINGLE	SINGLE			37
	MSZ-G Series									SINGLE	SINGLE	37
	MSZ-HJ60/71 MSZ-HJ25/35/50					SINGLE	SINGLE		SINGLE	SINGLE	SINGLE	41
Compact floor	MFZ Series					SINGLE	SINGLE		SINGLE			43
1-way cassette	MLZ Series					MXZ connection only	MXZ connection only		MXZ connection only			45

H: Outdoor unit with freeze-prevention heater is available. S-B: Indoor units are available in three colours; Silver, Black and White.

S SERIES

INVERTER Models

Model Nam	Model Name		3.5kW	4.2kW	5.0kW	6.0kW	7.1kW	8.0kW	10.0kW	14.0kW	20.0kW	Page
		1-phase	1- & 3-phase	1- & 3-phase	1- & 3-phase							
2 x 2 cassette	SLZ Series	SINGLE	SINGLE		SINGLE							51
Compact ceiling- concealed	SEZ Series	SINGLE	SINGLE		SINGLE	SINGLE	SINGLE					53

 $L: Indoor\ units\ are\ available\ in\ two\ types;\ with\ or\ without\ the\ wireless\ remote\ controller.$

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

POWERFUL HEATING SERIES

INVERTER Models

Model Name			2.5kW 1-phase	3.5kW 1-phase	5.0kW 1-phase	7.1kW 1-phase	10.0kW 1- & 3-phase	12.5kW 3-phase	- Page
	4-way cassette	PLA Series					SINGLE	SINGLE	83/87
ZUBADAN ZUBADAN	Wall-mounted	PKA Series					SINGLE TWIN		83/89
	Ceiling-concealed	PEAD-JA Series					SINGLE	SINGLE	83/90
Wal	ll-mounted	MSZ-FH VEHZ Series	SINGLE	SINGLE	SINGLE				85/91
Con	npact floor	MFZ-KJ VEHZ Series	SINGLE	SINGLE	SINGLE				92

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

MXZ SERIES

INVERTER Models

Model Name	Capacity Class	Wall-mounted	Floor-standing	Cassette	Ceiling-concealed	Ceiling-suspended	Page
up to 6 indoor units MXZ-6C122VA	12.2kW <1-phase>	MSZ-FH25/35/50 MSZ-EF18/22/25/35/42/50 MSZ-SF15/20/25/35/42/50 MSZ-GF60/71	MFZ-KJ25/35/50	MLZ-KA25/35/50 SLZ-KA25/35/50 PLA-RP50/60/71	SEZ-KD25/35/50/60/71 PEAD-RP50/60/71	PCA-RP50/60/71	97
up to 5 indoor units MXZ-5D102VA	10.2kW <1-phase>	MSZ-FH25/35/50 MSZ-EF18/22/25/35/42/50 MSZ-SF15/20/25/35/42/50 MSZ-GF60/71	MFZ-KJ25/35/50	MLZ-KA25/35/50 SLZ-KA25/35/50 PLA-RP50/60/71	SEZ-KD25/35/50/60/71 PEAD-RP50/60/71	PCA-RP50/60/71	97
up to 4 indoor units MXZ-4D83VA	8.3kW <1-phase>	MSZ-FH25/35/50 MSZ-EF18/22/25/35/42/50 MSZ-SF15/20/25/35/42/50 MSZ-GF60/71	MFZ-KJ25/35/50	MLZ-KA25/35/50 SLZ-KA25/35/50 PLA-RP50/60/71	SEZ-KD25/35/50/60/71 PEAD-RP50/60/71	PCA-RP50/60/71	97
up to 4 indoor units MXZ-4D72VA	7.2kW <1-phase>	MSZ-FH25/35/50 MSZ-EF18/22/25/35/42/50 MSZ-SF15/20/25/35/42/50 MSZ-GF60	MFZ-KJ25/35/50	MLZ-KA25/35/50 SLZ-KA25/35/50 PLA-RP50/60	SEZ-KD25/35/50/60 PEAD-RP60	PCA-RP50/60	97
up to 3 indoor units MXZ-3D68VA	6.8kW <1-phase>	MSZ-FH25/35/50 MSZ-EF18/22/25/35/42/50 MSZ-SF15/20/25/35/42/50 MSZ-GF60	MFZ-KJ25/35/50	MLZ-KA25/35/50 SLZ-KA25/35/50 PLA-RP50/60	SEZ-KD25/35/50/60 PEAD-RP60	PCA-RP50/60	97
up to 3 indoor units MXZ-3D54VA2	5.4kW <1-phase>	MSZ-FH25/35/50 MSZ-EF18/22/25/35/42/50 MSZ-SF15/20/25/35/42/50	MFZ-KJ25/35/50	MLZ-KA25/35/50 SLZ-KA25/35/50 PLA-RP50	SEZ-KD25/35/50 PEAD-RP50	PCA-RP50	97
up to 2 indoor units MXZ-2D53VA (H)	5.3kW <1-phase>	MSZ-FH25/35 MSZ-EF18/22/25/35/42/50 MSZ-SF15/20/25/35/42/50	MFZ-KJ25/35	MLZ-KA25/35 SLZ-KA25/35	SEZ-KD25/35		97
up to 2 indoor units MXZ-2D42VA	4.2kW <1-phase>	MSZ-FH25/35 MSZ-EF18/22/25/35 MSZ-SF15/20/25/35	MFZ-KJ25/35	MLZ-KA25/35 SLZ-KA25/35	SEZ-KD25/35		97
up to 2 indoor units MXZ-2D33VA	3.3kW <1-phase>	MSZ-FH25 MSZ-EF18/22/25 MSZ-SF15/20/25	MFZ-KJ25	MLZ-KA25 SLZ-KA25	SEZ-KD25		97
up to 3 indoor units MXZ-3HJ50VA	5.0kW <1-phase>	MSZ-HJ25VA MSZ-HJ35VA MSZ-HJ50VA					99
up to 2 indoor units MXZ-2HJ40VA	4.0kW <1-phase>	MSZ-HJ25VA MSZ-HJ35VA					99

LINE-UP

P SERIES

POWER INVERTER Models

Model Name		3.5kW	5.0kW	6.0kW	7.1kW
iviodei Name		1-phase	1-phase	1-phase	1-phase
4-way cassette	PLA Series	SINGLE	SINGLE	SINGLE	SINGLE
Wall-mounted	PKA Series	SINGLE	SINGLE	SINGLE	SINGLE
Ceiling-suspended	PCA-KAQ Series	SINGLE	SINGLE	SINGLE	SINGLE
Ceiling-suspended for Professional Kitchen	PCA-HAQ Series				SINGLE
Floor-standing	PSA Series				SINGLE
Calling appeared t	PEAD-JA Series	SINGLE	SINGLE	SINGLE	SINGLE
Ceiling-concealed	PEA Series				

STANDARD INVERTER Models

Model Name		3.5kW	5.0kW	6.0kW	7.1kW
wiodei Name		1-phase	1-phase	1-phase	1-phase
4-way cassette	PLA Series	SINGLE	SINGLE	SINGLE	SINGLE
Wall-mounted	PKA Series				
Ceiling-suspended	PCA-KAQ Series	SINGLE	SINGLE	SINGLE	SINGLE
Ceiling-suspended for Professional Kitchen	PCA-HAQ Series				
Floor-standing	PSA Series				
Calling aspects of	PEAD-JA Series	SINGLE	SINGLE	SINGLE	SINGLE
Ceiling-concealed	PEA Series				

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

10.0kW	12.5kW	14.0kW	20.0kW	25.0kW	40.0kW	50.0kW	
1- & 3-phase	1- & 3-phase	1- & 3-phase	3-phase	3-phase	3-phase	3-phase	Page
SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE OUADRUPLE			59
SINGLE	TWIN	TWIN	TWIN TRIPLE OUADRUPLE	TRIPLE QUADRUPLE			65
SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE			68
		TWIN		TRIPLE			69
SINGLE	SINGLE	SINGLE TWIN	TWIN	TWIN			73
SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE			76
			SINGLE	SINGLE	(SINGLE*	(SINGLE*	79

* 1 indoor unit requires 2 outdoor units.

10.0kW	12.5kW	14.0kW	20.0kW	25.0kW	40.0kW	50.0kW	Domo
1- & 3-phase	1- & 3-phase	1- & 3-phase	3-phase	3-phase	3-phase	3-phase	Page
SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE			59
SINGLE	TWIN	TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TRIPLE QUADRUPLE			65
SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE			68
		TWIN		TRIPLE			69
SINGLE	SINGLE	SINGLE TWIN	TWIN	TWIN TRIPLE			73
SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE			76
			SINGLE	SINGLE	SINGLE*	SINGLE*	79

NEW ECODESIGN DIRECTIVE

WHAT IS THE ErP DIRECTIVE?

The Ecodesign Directive for Energy-related Products (ErP Directive) establishes a framework to set mandatory standards for ErPs sold in the European Union (EU). The ErP directive introduces new energy-efficiency ratings across various product categories and affects how products such as computers, vacuum cleaners, boilers and even windows are classified in terms of environmental performance.

Regulations that apply to air conditioning systems of rated capacity up to 12kW came into effect as of January 1, 2013. Based the use of future-orientated technologies, Mitsubishi Electric is one step ahead of these changes, with our air conditioning systems already achieving compliance with these new regulations.

NEW ENERGY LABEL AND MEASUREMENTS

Under regulation 2011/626/EU, supplementing directive 2010/30/EU, air conditioning systems are newly classified into energy-efficiency classes on the basis of a new energy labelling system, which includes three new classes: A+, A++ and A+++.

Revisions to the measurement points and calculations of the seasonal energy efficiency ratio (SEER) and seasonal coefficient of performance (SCOP) has resulted in changes to how air conditioning systems are classified into energy-efficiency classes.

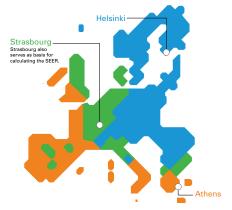
Specifically, for cooling mode, air conditioning systems must achieve at least class B. For heating mode, air conditioning systems must achieve at least a SCOP value of 3.8.

■New Energy Efficiency Label SEER and SCOP The SEER (Seasonal Energy Efficiency Ratio) value indicates the seasonal energy efficiency value in the cooling mode. The SCOP (Seasonal Coefficient of Performance) value refers to the seasonal efficiency in the heating mode. **ENERG** Energy efficiency classes from A+++ to D SCOP in heating mode MITSUBISHI SEER 🚱 SCOP (efficiency classes from A+++ to a SEER in cooling mode Α ergy efficiency class Energy efficiency class of the unit in cooling and heating mode of the unit model In the heating mode, the indication for the unit model is shown for •kW XY.Z kW XY.Z XY.Z XY.Z SEER X.Y SCOP X.Y X.Y . all three climate zones. kWh/annum XY kWh/annum XY ninal capacity in cooling mode **SEER value** Annual power consumption for cooling ZY db **∢**))) Operating noise, indoors/outdoors Operating noise, indoors/outdoors The sound power level is an mportant sound energy parameter for assessing a sound source. Contrary to the sound pressure the sound power is independent of the location of the source and/or the receiver. Maximally admissible values are: ZY db ENERGIA - EHEPГИЯ - ENEPГЕIA - ENERGIJA - ENERGY - ENERGIE - ENERG XYZ/2012 • > 6 kW ≤ 12 kW Outdoor unit | Indoor unit | Outdoor unit 60dB(A) 65dB(A) 60dB(A) 70dB(A) Indication on label data SCOP value Annual power consumption for heating Climate zones — For heating mode, the EU is divided into three climate zones

calculation and classification purposes. This aims at calculating the energy efficiency taking into consideration the actual regional

■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.



	Temperat	ure conditions	
Partial	Outdoors		Indoors
load	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

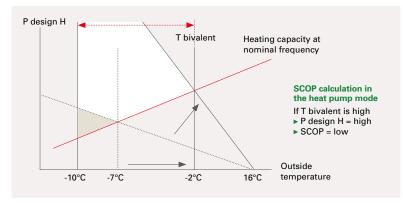
Partial	Outdoors		Indoors
load	DB	WB	DB
88%	-7°C	−8°C	20°C
54%	2°C	1°C	20°C
35%	7°C	6°C	20°C
15%	12°C	11°C	20°C

	Tempera	ture conditions	
Partial	Outdoors		Indoors
load	DB	WB	DB
61%	-7°C	–8°C	20°C
37%	2°C	1°C	20°C
24%		6°C	20°C
11%	12°C	11°C	20°C

SEER/SCOP

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

■SCOP Calculation



Technical Terms with Respect to the SCOP

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

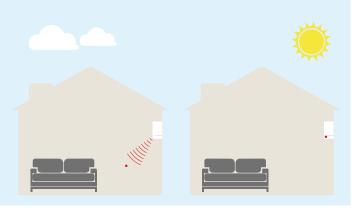
T design: Outside temperature which determines the P design H point. The latter is determined from the area conditions.

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

SOUND PRESSURE LEVEL

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

■Sound Pressure vs Sound Power Level



Sound pressure level dB(A)

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

Sound power level dB(A)

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

Inverter INVERTER TECHNOLOGIES

Mitsubishi Electric inverters ensure superior performance including the optimum control of operation frequency. As a result, optimum power is applied in all heating/cooling ranges and maximum comfort is achieved while consuming minimal energy. Fast, comfortable operation and amazingly low running cost — That's the Mitsubishi Electric promise.

INVERTERS — HOW THEY WORK

Inverters electronically control the electrical voltage, current and frequency of electrical devices such as the compressor motor in an air conditioner. They receive information from sensors monitoring operating conditions, and adjust the revolution speed of the compressor, which directly regulates air conditioner output. Optimum control of operation frequency results in eliminating the consumption of excessive electricity and providing the most comfortable room environment.

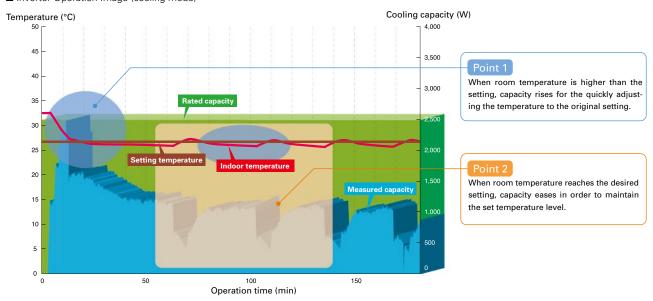
ECONOMIC OPERATION

Impressively low operating cost is a key advantage of inverter air conditioners. We've combined advanced inverter technologies with cutting-edge electronics and mechanical technologies to achieve a synergistic effect that enables improvements in heating/cooling performance efficiency. Better performance and lower energy consumption are the result.

TRUE COMFORT

Simple comparison of air conditioner operation control with and without inverter.

■ Inverter Operation Image (cooling mode)



Point 1 Quick & Powerful

Increasing the compressor motor speed by controlling the operation frequency ensures powerful output at start-up, brings the room temperature to the comfort zone faster than units not equipped with an inverter. Hot rooms are cooled, and cold rooms are heated faster and more efficiently.

Point 2 Room Temperature Maintained

The compressor motor operating frequency and the change of room temperature are monitored to calculate the most efficient waveform to maintain the room temperature in the comfort zone. This eliminates the large temperature swings common with non-inverter systems, and guarantees a pleasant, comfortable environment.

KEY TECHNOLOGIES

Our Rotary Compressor

Our rotary compressors use our original "Poki-Poki Motor" and "Heat Caulking Fixing Method" to realise downsizing and higher efficiency, and are designed to match various usage scenes in residential to commercial applications. Additionally, development of an innovative production method known as "Divisible Middle Plate" realises further size/weight reductions and increased capacity while also answering energy-efficiency needs.

Our Scroll Compressor

Our scroll compressors are equipped with an advanced frame compliance mechanism that allows self-adjustment of the position of the orbiting scroll according to pressure load and the accuracy of the fixed scroll position. This minimises gas leakage in the scroll compression chamber, maintains cooling capacity and reduces power loss.

MORE ADVANTAGES WITH MITSUBISHI ELECTRIC



Joint Lap DC Motor

Mitsubishi Electric has developed a unique motor, called the "Poki-Poki Motor" in Japan, which is manufactured using a joint lapping technique. This innovative motor operates based on a highdensity, high-magnetic force, leading to extremely high efficiency and reliability.







Magnetic Flux Vector Sine Wave Drive

This drive device is actually a microprocessor that converts the compressor motor's electrical current waveform from a conventional waveform to a sine wave (180°conductance) to achieve higher efficiency by raising the motor winding utilisation ratio and reducing energy loss.



Reluctance DC Rotary Compressor

Powerful neodymium magnets are used in the rotor of the reluctance DC motor. More efficient operation is realised by strong magnetic and reluctance torques produced by the magnets.

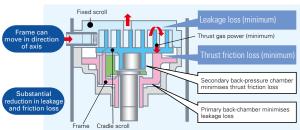




Highly Efficient DC Scroll Compressor

Higher efficiency has been achieved by adding a frame compliance mechanism to the DC scroll compressor. The mechanism allows movement in the axial direction of the frame supporting the cradle scroll, thereby greatly reducing leakage and friction loss, and ensuring extremely high efficiency at all speeds.







Heat Caulking Fixing Method

To fix internal parts in place, a "Heat Caulking Fixing Method" is used, replacing the former arc spot welding method. Distortion of internal parts is reduced, realising higher efficiency.





DC Fan Motor

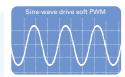
A highly efficient DC motor drives the fan of the outdoor unit. Efficiency is much higher than an equivalent AC motor.

WW Vector-Wave Eco Inverter

This inverter monitors the varying compressor motor frequency and creates the most efficient waveform for the motor speed. As the result, operating efficiency in all speed ranges is improved, less power is used and annual electricity cost is reduced.

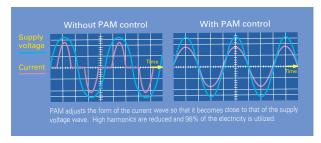
Smooth wave pattern

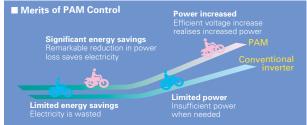
Inverter size has been reduced using insertmolding, where the circuit pattern is molded into the synthetic resin. To ensure quiet operation, soft PWM control is used to prevent the metallic whine associated with conventional inverters



PAM PAM (Pulse Amplitude Modulation)

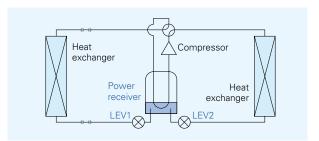
PAM is a technology that controls the current waveform so that it resembles the supply voltage wave, thereby reducing loss and realising more efficient use of electricity. Using PAM control, 98% of the input power supply is used effectively.





Power Receiver and Twin LEV Control

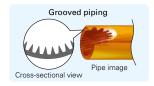
Mitsubishi Electric has developed a power receiver and twin linear expansion valves (LEVs) circuit that optimise compressor performance. This technology ensures optimum control in response to operating waveform and outdoor temperature. Operating efficiency has been enhanced by tailoring the system to the characteristics of R410A refrigerant.





Grooved Piping

High-performance grooved piping is used in heat exchangers to increase the heat exchange area.

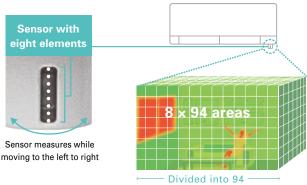


FUNCTIONS (1)

ENERGY-SAVING

3D isee 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.



(Image)

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.



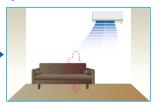
Direct Airflow

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



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

Area Temperature Monitor

The "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.

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.



Temperature distribution (°C)

Cooling mode





Demand Function (Onsite Adjustment)

The demand function can be activated when the unit is equipped with a commercially available timer or an On/Off switch is added to the CNDM connector (option) on the control board of the outdoor unit. Energy consumption can be reduced up to 100% of the normal consumption according to the signal input from outside.

[Example: Power Inverter Series]

Limit energy consumption by changing the settings of SW7-1, SW2 and SW3 on the control board of the outdoor unit. The following settings are possible.

SW7-1	SW2	SW3	Energy consumption
	OFF	OFF	100%
ON	ON	OFF	75%
ON	ON	ON	50%
	OFF	ON	0% (Stop)

*PUHZ outdoor only

ATTRACTIVE



Pure White

Pure white is adopted for the unit colour; white expressing the essence of cleanliness and easily matching virtually all interior décor.

Auto Vane

The vane closes automatically when the air conditioner is not running, concealing the air outlet and creating a flat surface that is aesthetically appealing.

AIR QUALITY



Plasma Quad

Plasma Quad attacks bacteria and viruses from inside the unit using a strong curtain-like electrical field and discharge of electric current across the whole inlet-air opening of the unit.



Air Cleaning Filter

The filter is charged with static electricity, enabling it to attract and capture dust particulates that regular filters don't.



Fresh-air Intake

Indoor air quality is enhanced by the direct intake of fresh exterior air.



Anti-allergy Enzyme Filter

The anti-allergy enzyme filter works to trap allergens such as molds and bacteria and decompose them using enzymes retained in the filter



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.



Nano Platinum Filter

The filter has a large capture area and incorporates nanometre-sized platinum-ceramic particles that work to kill bacteria and deodourise the circulating air.

Catechin Filter

Catechin is a bioflavonoid by-product of green tea with both antiviral and antioxidant qualities. It also has an excellent deodourising effect, which is why Mitsubishi Electric uses the compound in its air conditioner filters. In addition to improving air quality, it prevents the spreading of bacteria and viruses throughout the room. Easily removed for cleaning and maintenance, when the filter is washed regularly the deodourising action is rated to last more than 10 years.



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.



Electrostatic Anti-allergy Enzyme Filter

This function features both the Air Cleaning Filter and Anti-allergy Enzyme Filter.

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.

FUNCTIONS (2)

CONVENIENCE



On/Off Operation Timer

Use the remote controller to set the times of turning the air conditioner On/Off.



"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.







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

(C) ⇔ (C) ACO

Auto Changeover

The air conditioner automatically switches between heating and cooling modes to maintain the desired temperature.



Low-temperature Cooling

Intelligent fan speed control in the outdoor unit ensures optimum performance even when the outside temperature is low.



Ampere Limit Adjustment

Dip switch settings can be used to adjust the maximum electrical current for operation. This function is highly recommended for managing energy costs.

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



Operation Lock

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

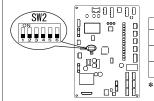
Especially useful at the time of power outages, the unit turns back on automatically when power is restored.



Low-noise Operation (Outdoor Unit)

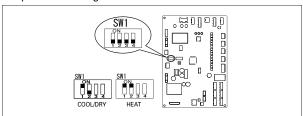
System operation can be adjusted to prioritise less noise from the outdoor unit over air conditioning performance.

■ Dip Switch Setting (Board for MXZ-5D102)



SW2	Ampere Limit
ۄ۪ٙڡ۪ٞۄ۪ۅۅٞۨڡ۪ٞ	10.5A
֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	15.5A
ۄ۪ۄۣۄۄۅٞڨ۪	Full (default setting)

■ Dip Switch Setting (Board for MXZ-5D102)



Built-in Weekly Timer Function

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

■ Example Operation Pattern (Winter/Heating mode)

	Mon.		Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
5.00	ON 20	°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
6:00				Automatically change	s to high-power opera	tion at wake-up time		
800								
10:00	OFF		OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00 14:00			Automatic	ally turned off during v	vork hours		Midday is warmer, so the temperature	
15:00								
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 turn	ns on, synchronized wi	th arrival at home		Automatically raises ten match time when outsid	nperature setting to de-air temperature is low
(during sleeping hours)								
(uuring sieeping nours)	ON_18	°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
			Automa	itically lowers tempera	ture at bedtime for ene	ergy-saving operation a	t night	
			<u> </u>					=

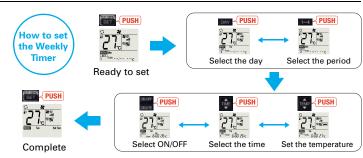
Settings

Pattern Settings: Input up to four settings for each day

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

■ Easy set-up using dedicated buttons -





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

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

SYSTEM CONTROL



PAR-31MAA/PAC-YT52CRA

Units are compatible for use with the PAR-31MAA or PAC-YT52CRA remote controller, which has a variety of management functions.



System Group Control

The same remote controller is capable of controlling the operational status of up to 16 refrigerant systems.



M-NET Connection

Units can be connected to MELANS system controllers (M-NET controllers) such as the AG-150A.

COMPO (Simultaneous Multi-unit Operation)

Multiple indoor units can be connected to a single outdoor unit. (Depending on the unit combination, connection of up to four units is possible; however, all indoor units must operate at the same settings.)



MXZ Connection

Connection to the MXZ multi-split outdoor unit is possible.

Wi-Fi Interface

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

FUNCTIONS (3)

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.

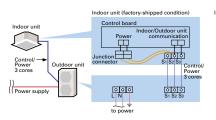
Reuse of Existing Wiring

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

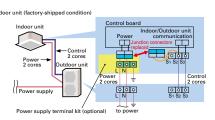
The wiring method has been improved, making it possible to use methods different from that utilized for control and power supply. Units are compatible with the dual harness control line/power line method and the separate power supply method. Using a power supply terminal kit, wire can be efficiently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

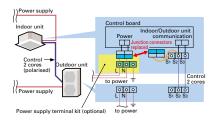
Single Harness Control/Power Line Method (Current method)



Dual Harness Control Line/Power Line Method



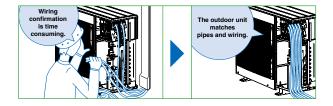
Separate Power Supply Method



Wiring/Piping Correction Function*

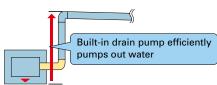
The push of a single button is all that is required to confirm that piping and wiring are properly connected. Corrections are made automatically if a wiring error is detected, eliminating the need for complicated wiring confirmation work when expanding the number of rooms served.

- *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 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



MAINTENANCE



Quick Clean Body

Exclusive Quick Clean Kit (Optional)

Our exclusive "Quick Clean Kit" can be easily connected to a household vacuum cleaner for quick and easy cleaning of the heat exchanger.* *Wearing gloves is highly recommended when cleaning the heat exchanger, because touching it with bare hands can cause injury.





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.

FUNCTION LIST (1)

ategory	Icon														M SEF											
		Combination	Indoor unit		MS	SZ-FH2	5/35/50	VE		MSZ-	EF18/2	2/25/35	5/42/50\ T	/E2(W)	(B)(S)		MSZ	Z-SF15/	20VA			MSZ	-SF25/3	35/42/50	0VE2	
		Comp	Outdoor unit	MUZ -FH	MXZ -2D	MXZ -3D	MXZ -4D	MXZ -5D	MXZ -6C	MUZ -EF	MXZ -2D	MXZ -3D	MXZ -4D	MXZ -5D	MXZ -6C	MXZ -2D	MXZ -3D	MXZ -4D	MXZ -5D	MXZ -6C	MUZ -SF	MXZ -2D	MXZ -3D	MXZ -4D	MXZ -5D	MXZ -6C
chnology	DC Inverter			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Joint Lap DC Mot	or		•	•	•	72			•	•	•	72			•	•	72			•	•	•	72		
	Magnetic Flux Vector	or S	ine Wave Drive																							
	Reluctance DC Rot	ary	Compressor				83	•	•				83	•	•			83	•	•				83	•	•
	Highly Efficient DC	Scr	oll Compressor																							
	Heating Caulking			•	•	•	72			•	•	•	72			•	•	72				•	•	72		
	DC Fan Motor			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Vector-Wave Eco	Inv	rerter																							
	PAM (Pulse Ampl			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Power Receiver and					•	•	•				•	•	•			•	•	•				•	•	•	
	Grooved Piping	u 11	VIII EE V CONTION	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Energy		atrol	(2D i oan Cannor)																							
Saving	Felt Temperature Cor			•	•	•	•	•	•																	
	AREA Temperatu			•	•	•	•	•	•																	
	Econo Cool Energ		-	•	•			•	•	•	•	•	•		•	•	•	•	•	•	•	•			•	•
	Standby Power C		sumption Cut	•						•											•					
Attornation	Demand Function	1																								
Attractive	Pure White			•	•	•	•	•	•	VEW	VEW	VEW	VEW	VEW	VEW	•	•	•	•	•	•	•	•	•	•	•
	Auto Vane			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Air Quality	Plasma Quad			•	•	•	•	•	•																	
	Fresh-air Intake																									
	Anti-allergy Enzyr	me	Filter																							
	Electrostatic Anti-all	lerg	y Enzyme Filter	•	•	•	•	•	•	Opt	Opt	Opt	Opt	Opt	Opt						Opt	Opt	Opt	Opt	Opt	Opt
	High-efficiency Fil	Iter																								
	Catechin Filter																									
	Nano Platinum Fi	lter								•	•	•	•	•	•						•	•	•	•		•
	Oil Mist Filter																									
	Long-life Filter																									
	Filter Check Signa	al																								
Air	Double Vane			•	•	•	•	•	•																	
Distribution	Horizontal Vane			•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Vertical Vane			•	•	•	•	•	•																	
	High Ceiling Mode	е																								
	Low Ceiling Mode	9																								
	Auto Fan Speed I	Mod	de	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Convenience	On/off Operation	Tim	ier	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	"i save" Mode			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Auto Changeover			•	• *1	•	• *1	• *1	0 *1	• *1	•*1	• *1	•	0 *1	• *1	• *1	• *1	0 *1								
	Auto Restart			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Low-temperature	Co	olina	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Low-noise Operat				•	•	•	•	•		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•
	Ampere Limit Adju						83	•	•				83	•	•			83	•	•				83	•	•
	Operation Lock	aoti			•	•	83	•	•		•	•	83	•	•	•	•	03	•	•		•	•	03	•	•
	Built-in Weekly Ti	me	r Function	•		•	•	•		•	•		•	•	•		•	•	•	•	•	•	•	•	•	•
				-	•	•	-	-	•	-	-	•	-	•	•	•	-	•	-	-	-	-	-	-	-	-
System	PAR-31MAA Cont			6	6	6	6	6		6	6	6	6	6		6	6	6	6	6	6	6	6	6		
Control				Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	PAC-YT52CRA C			Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	Centralised On/O			Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	System Group Co			Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	M-NET Connection	on *	3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	COMPO *4																									
	MXZ Connection				* 2		* 2	* 2	* 2	* 2	• *2	* 2	* 2	* 2	• *2	* 2		* 2	* 2	* 2	• *2	• *2				
Installation	Cleaning-free Pip	e R	leuse	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Reuse of Existing	Wi	ring																							
	Wiring/Piping Cor	rec	tion Function		•	•	•	•	•		•	•	•	•	•		•	•	•	•		•	•	•	•	•
	Drain Pump																									
	Pump Down Swite	ch																								
	Flare Connection			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Maintenance	Self-Diagnosis Function	n (Ch	heck Code Display)	•	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		-	on	•																	_					_

^{*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 page 103 for details.

^{*3} Please refer to "System Control" on pages 27-28 for details. *4 Please refer to page 54 for details.

									M SE	RIES															S se	ERIES					
	MSZ	-GF60/	71VE		MSZ-I	HJ25/35	5/50VA	MSZ- HJ60/ 71VA		MFZ-F	KJ25/35	5/50VE				MLZ-K	A25/35	5/50VA			SLZ-K	A25/35	/50VAL	_/VAQ		SE	Z-KD2	5/35/50	0/60/71	VAL/VA	AQ.
MUZ -GF	MXZ -3D	MXZ -4D	MXZ -5D	MXZ -6C	MUZ -HJ	MXZ -2HJ	MXZ -3HJ	MUZ -HJ	MUFZ -KJ	MXZ -2D	MXZ -3D	MXZ -4D	MXZ -5D	MXZ -6C	MXZ -2D	MXZ -3D	MXZ -4D	MXZ -5D	MXZ -6C	SUZ -KA	MXZ -2D	MXZ -3D	MXZ -4D	MXZ -5D	MXZ -6C	SUZ -KA	MXZ -2D	MXZ -3D	MXZ -4D	MXZ -5D	MXZ -6C
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	72			•	•	•	•	•	•		72			•	•	72			•	•	•	72			•	•	•	72		
		83	•	•								83	•	•			83	•	•				83	•	•				83	•	•
	•	72			35	•	•	•	•	•	•	72			•	•	72			•	•	•	72			•	•	•	72		
•	•	•	•	•	50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
)																						
•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•												
•									•																						
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						•	•	•	•	•	•						
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
																				•	•	•	•	•	•						
Opt	Opt	Opt	Opt	Opt					•	•	•	•	•	•	Opt	Opt	Opt	Opt	Opt												
Орг	Орг	Орг	Орг	Орг																											
•	•	•	•	•											Opt	Opt	Opt	Opt	Opt												
																				VAQ	VAQ	VAQ	VAQ	VAQ	VAQ						
•	•	•	•	•	•	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
															•	•	•	•	•												
					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•							•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	• *1	• *1	• *1	• *1					• *1	•	• *1	● *1	• *1	• *1	• *1	•	• *1														
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•	•	•	•		•	•			•	•	•	•	•	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•
	•	83	•	•		•	•			•	•	83	•	•	•	•	83	•	•		•	•	83	•	•		•	•	83	•	•
•	•	•	•	•					•																						
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										
	* 2	• *2	• *2	* 2		• *2	* 2			* 2	* 2	• *2	• *2	* 2	* 2	* 2	* 2	• *2	• *2		• *2	• *2	* 2	•*2	* 2		• *2	* 2	• *2	• *2	•*2
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•	•	•	•		•	•			•	•	•	•	•	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•
															•	•	•	•	•	•	•	•	•	•	•	Opt	Opt	Opt	Opt	Opt	Opt
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
				_			_		-	_	_			_	_				d in the												

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)

itegory	Icon										P se	RIES								
	nation	Indoor unit		F	PLA-(Z)RF	P35/50/60)/71/100/1	25/140B	4			PE	EAD-RP35	5/50/60/7	1/100/125	5/140JA(L))Q		RP20	A- 0/250 00GAQ
	Combination	Outdoor unit	PUHZ -SHW	PUHZ -ZRP	PUHZ -P	SUZ -KA	MXZ -3D	MXZ -4D	MXZ -5D	MXZ -6C	PUHZ -SHW	PUHZ -ZRP	PUHZ -P	SUZ -KA	MXZ -3D	MXZ -4D	MXZ -5D	MXZ -6C	PUHZ -ZRP	PUHZ -P
hnology	DC Inverter	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Joint Lap DC Motor	•		35-71		•	•	•				35-71		•	•	•				
	Magnetic Flux Vector	Sine Wave Drive	•	•	•						•	•	•		•	•	•		•	•
	Reluctance DC Rotar	y Compressor			100-140			83	•	•			100-140			83	•	•		
	Highly Efficient DC S		•	100-250	200/250						•	100-250	200/250						•	•
					200/230	•	•	70					200/230	•	•	72				
	Heating Caulking (Dompressor)		35-71				72				35-71								
	DC Fan Motor		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Vector-Wave Eco II	nverter	•	•	•						•	•	•						•	•
	PAM(Pulse Amplitu	de Modulation)	•	35-140	100-140	•	•	•	•	•	•	35-140	100-140	•	•	•	•	•		
	Power Receiver and	Twin LEV Control	•	35-140			•	•	•	•	•	35-140			•	•	•	•		
	Grooved Piping		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Energy	Felt Temperature Con	trol (i-see Sensor)																		
Saving	AREA Temperature	Monitor	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt										
	Econo Cool Energy		Орг	Орг	Орг	Орг	Орг	Орг	Орг	Орг										
		Saving I catale																		
	'I-Feel' Control																			
	Demand Function		Opt	Opt	Opt						Opt	Opt	Opt						Opt	Opt
Attractive	Pure White		•	•	•	•	•	•	•	•										
	Auto Vane		•	•	•	•	•	•	•	•										
Air Quality	Plasma Quad																			
	Fresh-air Intake		•	•	•	•	•	•	•	•										
	Anti-allergy Enzym	e Filter																		
	High-efficiency Filte		0-4	0-4	0-4	0-4	0-4	0-4	0-4	0-4										
		21	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt										
	Catechin Filter																			
	Oil Mist Filter																			
	Long-life Filter		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	Filter Check Signal		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Air	Horizontal Vane		•	•	•	•	•	•	•	•										
Distribution	Vertical Vane																			
	High Ceiling Mode		•	•	•	•	•	•	•	•										
	Low Ceiling Mode			•	•	•		•	•	•										
			•				•													
	Auto Fan Speed M		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Convenience	On/off Operation Ti	mer	•	•		•	•	•	•	•	•	•			•	•	•	•	•	
	"i save" Mode																			
	Auto Changeover		•	•	•	•	● *1	• *1	● *1	• *1	•	•		•	•	•	•	•	•	
	Auto Restart		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•
	Low-temperature C	ooling	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Low-noise Operation		•	•	•		•	•	•	•	•	•	•		•	•	•	•	•	•
	· ·			60-140V																-
	Ampere Limit Adjus	ourient	112/140	200/250				83	•	•	112/140	60-140V 200/250				83	•	•	•	
	Operation Lock						•	•	•	•										
	Built-in Weekly Tim	er Function																		
	Rotation, Back-up and 2nd	Stage Cut-in Functions	Opt	Opt	Opt						Opt	Opt	Opt							
	Dual set point *6			•	200/250							•	200/250						•	•
System	PAR-31MAA Contro	ol *3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Control	PAC-YT52CRA Co	ntrol *3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	Centraliesd On/Off		Opt	-		Opt								Opt				Opt	Орг	Эрг
			<u> </u>	Opt	Opt		Opt	Opt	Opt	Opt	Opt	Opt	Opt		Opt	Opt	Opt			
	System Group Con		•	•	•	Opt	Opt	Opt	Opt	Opt	•	•	•	Opt	Opt	Opt	Opt	Opt	•	•
	M-NET Connection	~3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	COMPO *4		•	71-250	•						•	71-250	•							
	MXZ Connection		<u> </u>				* 2	* 2	* 2	* 2		L_ ¯			* 2	* 2	• *2	* 2		
Installation	Cleaning-free Pipe	Reuse	•	•		•	•	•	•	•	•	•		•	•	•	•	•	•	•
	Reuse of Existing V		Opt	Opt	Opt						Opt	Opt	Opt							
	Wiring/Piping Corre						•	•	•	•					•	•	•	•		
		anodon											A	6						
	Drain Pump		•	•	•	•	•	•	•	•	• *5	* 5	* 5	• *5	• *5	• *5	• *5	* 5		
	Pump Down Switch	1	•	•	•						•	•	•						•	•
	Flare Connection		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Maintenance	Quick Clean Body																			
	Self-Diagnosis Function (Check Code Display)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
								_				-	_							

^{*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 page 103 for details.
*3 Please refer to "System Control" on pages 27-28 for details.

^{*4} Please refer to page 16 for details.
*5 PEAD-RP JALQ are not equipped with a drain pump.
*6 This function is only available with PAR-31MAA.

							P se	RIES							
Pk RP35/	(A- 50HAL	PKA-F	RP60/71/10	00KAL		PCA	A-RP35/50)/60/71/100	0/125/140	KAQ		PCA-RF	71HAQ		RP71/ 5/140KA
PUHZ -ZRP	PUHZ -P	PUHZ -SHW	PUHZ -ZRP	PUHZ -P	PUHZ -ZRP	PUHZ -P	SUZ -KA	MXZ -3D	MXZ -4D	MXZ -5D	MXZ -6C	PUHZ -ZRP	PUHZ -P	PUHZ -ZRP	PUHZ -P
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35-71			60-71		50-71		•	•	•	•	•	71		71	
•	•	•	•	•	•	•						•	•	•	•
	100-140			100-140		100-140			83	•	•		100/125		100-140
100-200	200	•	100-250	200/250	100-250	200/250						100-250	250	100-250	200/250
35-71			35-71		35-71		•	•	72			35-71		35-71	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0.5.440		•	•	•	-	•									•
35-140 35-140	100-140	•	60-140	100-140	50-140 35-140	100-140	•	•	•	•	•	71-140	125/140	71-140	100-140
35-140	•	•	60-140	•	35-140	•	•	•	•	•	•	71-140	•	71-140	•
Opt	Opt	Opt	Opt	Opt	Opt	Opt						Opt	Opt	Opt	Opt
•	•	•	•	•	•	•	•	•	•	•	•			•	•
•	•	•	•	•	•	•	•	•	•	•	•				
					•	•	•	•	•	•	•	•	•		
					Opt	Opt	Opt	Opt	Opt	Opt	Opt				
					•	•	•	•	•	•	•	•	•	•	•
Opt	Opt	Opt	Opt	Opt	•	•	•	•	•	•	•	•	•	•	•
Орг	Орг	Орг	Орг	Орг	•	•	•	•	•	•	•				
														•	•
					•	•	•	•	•	•	•				
					•	•	•	•	•	•	•				
•	•	•	•	•	•	•	•	•	•	•	•				
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	• *1	● *1	• *1	• *1	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•		•	•	•	•	•	
60-140V	•	•	60-140V	•	60-140V	•		•	•	•	•	71-140V	•	71-140V	•
200/250		112/140	60-140V 200/250		200/250				83	•	•	200/250		200/250	
								•	•	•	•				
Opt	Opt	Opt	Opt	Opt	•	•		•	•	•	•	•	•		
Орг	200	Opt	Орг	200/250	•	200/250									
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Opt	Opt	Opt	Opt	Opt	•	•	Opt	•	•	•	•	•	•	Opt	Opt
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
71-250	•	•	71-250	•	71-250	•						71-250	•	71-250	•
								* 2	• *2	• *2	• *2				
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Opt	Opt	Opt	Opt	Opt	Opt	Opt						Opt	Opt	Opt	Opt
0-1	0-1	0-1	0-:	0-:	0-1	0	0	Opt	Opt	Opt	Ont				
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
									,						
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
							If a nume	rical figure	is listed, th	e feature i	s only ava	ilable with	he outdoor	r unit of tha	at capacity.

[•] If a numerical figure is listed, the feature is only available with the outdoor unit of that capacity.
• Opt: Optional parts must be purchased.

CONTROL TECHNOLOGIES



User-friendly Deluxe Remote Controller with Excellent Operability and Visibility

PAR-31MAA

Easy To Read & Easy To Use

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

Multilanguage

Control panel operation in eight different languages

Choose the desired language, among the following languages.





[Italian]



[German]



[French]



[Russian]

[Spanish]

Frio





[Portuguese] [Swedish]



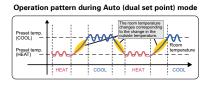
Temperature Control



Two preset temperatures

When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will

automatically operate in either the COOL or HEATmode and keep the room temperature within the preset range.



^{*}Please refer to the function list on page 21-22 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	\rightarrow	12:00	80%
12:00	\rightarrow	13:00	50%
13:00	\rightarrow	17:00	90%
17:00	\rightarrow	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.

Night Setback

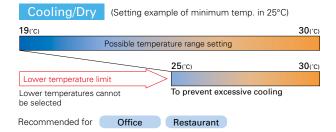
Keep desired room temperatures automatically

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.

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



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

Operation Lock

Fixed temperature setting promotes energy savings

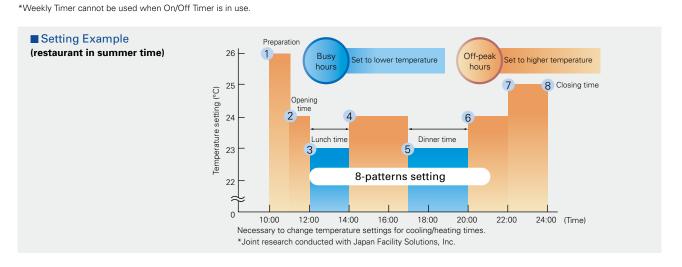
In addition to operation start/stop, the operation mode, temperature setting and airflow direction can be locked. Unwanted adjustment of temperature settings is prevented and an appropriate temperature is constantly maintained, leading to energy savings. This feature is also useful in preventing erroneous operation or tampering.

Recommended for Office School Public hall
Hospital Computer server facility



Set up to 8 patterns per day including temperature control

The Weekly Timer enables the setting of operation start and finish times and adjusting the temperature as standard features. Up to 8 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.



CONTROL TECHNOLOGIES

Installation/Maintenance Support Functions



Outdoor unit data accessed immediately, enabling fast maintenance (only 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)

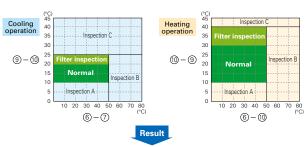
	Compressor	6	OU TH4 temp. (°C)
1	COMP. current (A)	7	OU TH6 temp. (°C)
2	COMP. run time (Hr)	8	OU TH7 temp. (°C)
3	COMP. ON/OFF (times)		Indoor Unit
4	COMP. frequency (Hz)	9	IU air temp. (°C)
	Outdoor Unit	10	IU HEX temp. (°C)
5	Sub cool (°C)	11)	IU filter operating time* (Hr)

^{*}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.

		ltem
Caalina		(⑥ OU TH4 temp.) – (⑦ OU TH6 temp.)
Cooling	Temp. difference	(③ IU air temp.) – (⑩ IU HEX temp.)
I I a a tha a		(⑥ OU TH4 temp.) – (⑩ IU HEX temp.)
Heating		(1) IU HEX temp.) – (9) IU air temp.)



Normal	Normal operating status.						
Filter inspection	Filter may be blocked.*1						
Inspection A	Capacity is reduced. Detailed inspection is necessary.						
Inspection B	Refrigerant level is low.						
Inspection C	Filter or indoor unit heat exchanger is blocked.						

- *1: Due to indoor and outdoor temperatures, "Filter inspection" may be displayed even if the filter is 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:
- all no coiling 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 40°C or the indoor induction temperature is below 23°C.
- induction temperature is over 25°C
- induction temperature is over Zbでし、
 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

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.

Autodescending Panel Operation

Easily raise/lower panels using the remote controller

Auto-descending panel operation is available as an option. Panels can be lowered/raised using a button on the wired remote controller. Filter cleaning can be performed easily.

Refrigerant Leakage Check

Easily check refrigerant leakage

The Mr. Slim Power Inverter units come equipped with a useful "Refrigerant Leakage Check" function. Using a wired remote controller, it is easy to check if refrigerant has been lost over a long period of use. This reduces service time and gives an added sense of safety.



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.

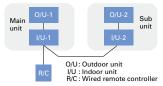
Rotation, Back-up and 2nd Stage Cut-in Functions (PAR-31MAA)

(1) Rotation and Back-up Functions

Function Outline

- Main and sub units take turns operating according to a rotation interval setting.
- If one unit malfunctions, the other unit automatically begins operation (Back-up function)

System Image



(2) 2nd Stage Cut-in Function

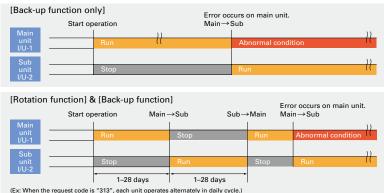
Function Outline

- Number of units operating is based on room temperature and predetermined settings.
- When room temperature rises above the desired setting, the standby unit starts (2-unit operation).
- When the room temperature falls 4°C below the predetermined setting, the standby unit stops (1unit operation).

System Constraint

 This function is only available for rotation operation and when the back-up function is in cooling mode.

Operation Pattern



Operation Pattern



\$TEMP

8.11

DIVE

70mm (2-3/4 in)

Simple MA Remote Controller PAC-YT52CRA

Backlit LCD

Features a liquid-crystal display (LCD) with backlight for operation in dark conditions.

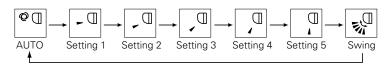
Flat Back

The slim and flat-back shape makes installation easier without requiring a hole in the wall. Thickness is 14.5mm or less.

Vane Angle Setting

The vane button has been added to allow users to change the airflow direction (ceiling-cassette and wall-mounted units).

Pressing the [3,] button will switch the vane direction.



Flat

back

- * 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.

Max

14.5mm (9/16 in)

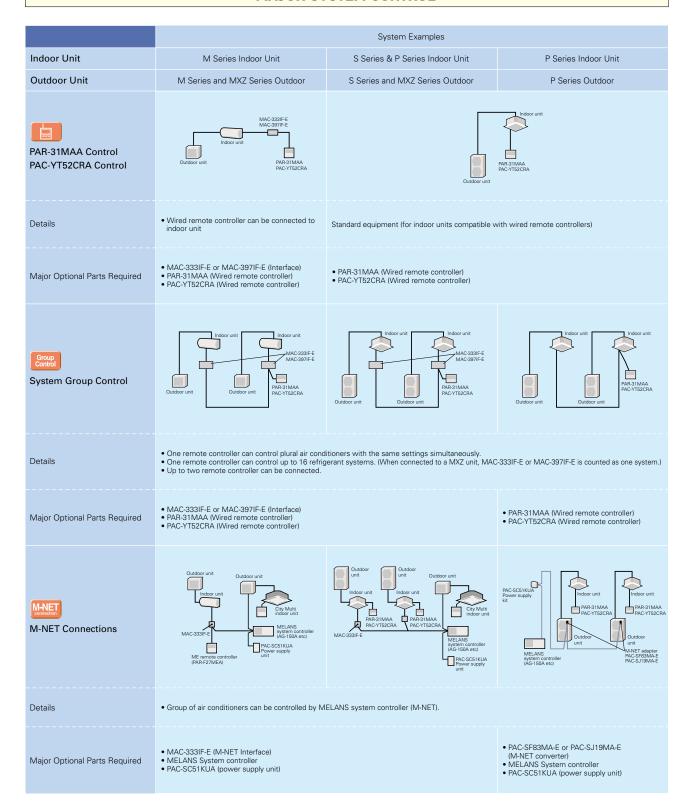
120mm

(4-23/32 in)

SYSTEM CONTROL

Versatile system controls can be realised using optional parts, relay circuits, control panels, etc.

MAJOR SYSTEM CONTROL

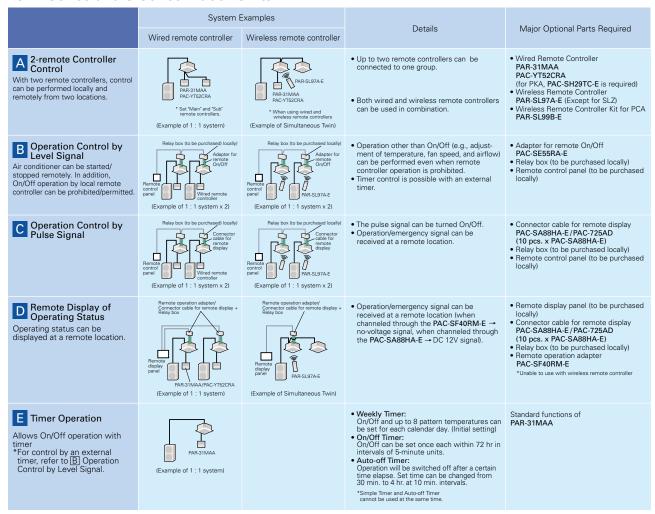


OTHERS

For M Series Indoor Units (New A-control Models Only)

	System Examples	Connection Details	Control Details	Major Optional Parts Required		
Remote On/Off Operation • Air conditioner can be started/ stopped remotely. (① and ② can be used in combination)	MAC.333IF.E MAC.337IF.E Switch Switch Outdoor unit Remote control section (to be purchased locally)	Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.	On/Off operation is possible from a remote location.	MAC-333IF-E or MAC-397IF-E (Interface) Parts for circuit such as relay box, lead wire, etc. (to be purchased locally)		
2 Remote Display of Operation Status • The On/Off status of air conditioners can be confirmed remotely. (1 and 2 can be used in combination)	MAC 337IF-E Power supply MAC 337IF-E Remote monitor section (to be purchased locally)	Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.	The operation status (On/Off) or error signals can be monitored from a remote location.	MAC-333IF-E or MAC-397IF-E (Interface) Parts for circuit to be purchased locally (DC power source needed) External power source (12V DC) is required when using MAC-333IF-E.		

For P Series and S Series Indoor Units





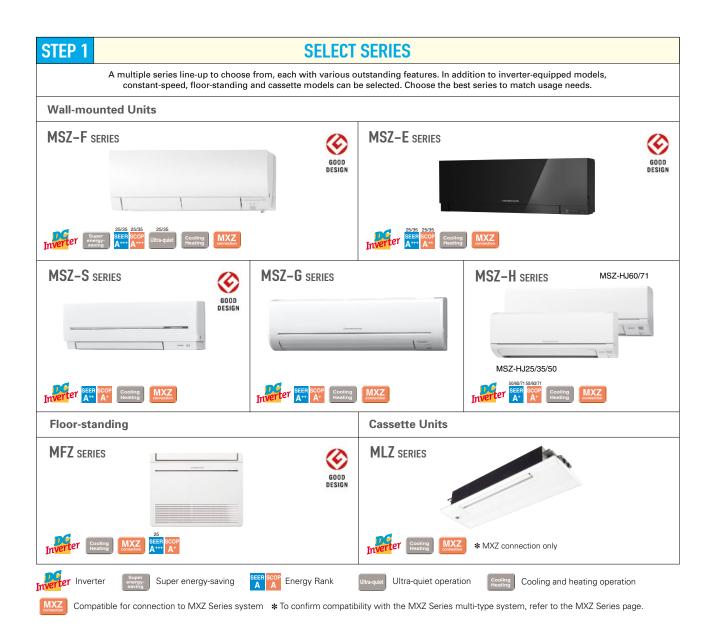






SELECTION

Choose the model that best matches room conditions.





SELECT OUTDOOR UNIT

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

Heater Installed



MUZ-FH25/35VEHZ MUZ-EF25/35VEH MUZ-SF25/35/42VEH MUFZ-KJ25/35VEHZ



MUZ-FH50VEHZ MUZ-SF50VEH MUFZ-KJ50VEHZ

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 $0\,^{\circ}\text{C}$ 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.



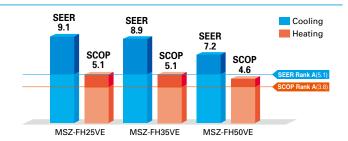
MSZ-F_{SERIES}

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).



Hyper Heating

The Hyper Heating feature is incorporated, realizing powerful heating even in the harsh cold. Even users in cold regions can comfortably rely on the MSZ-FH Series for all their heating needs.

Operation Guaranteed at Outside Temperature of -25°C

MUZ-FH VEHZ can be operated at outside temperatures as low as -25°C, so there are no concerns about use even in very cold climates.



Rated Capacity Demonstrated at Outside Temperatures of -15°C

With rated capacity ensured at outside temperature as low as -15°C, the FH Series can be relied upon to properly warm living spaces even in severe cold snaps.



Freeze-prevention Heater Equipped as Standard (VEHZ)

The Freeze-prevention heater prevents lowered capacity due to the drain freezing and also inhibits operation shutdowns.





Selecting a Heater-equipped Model

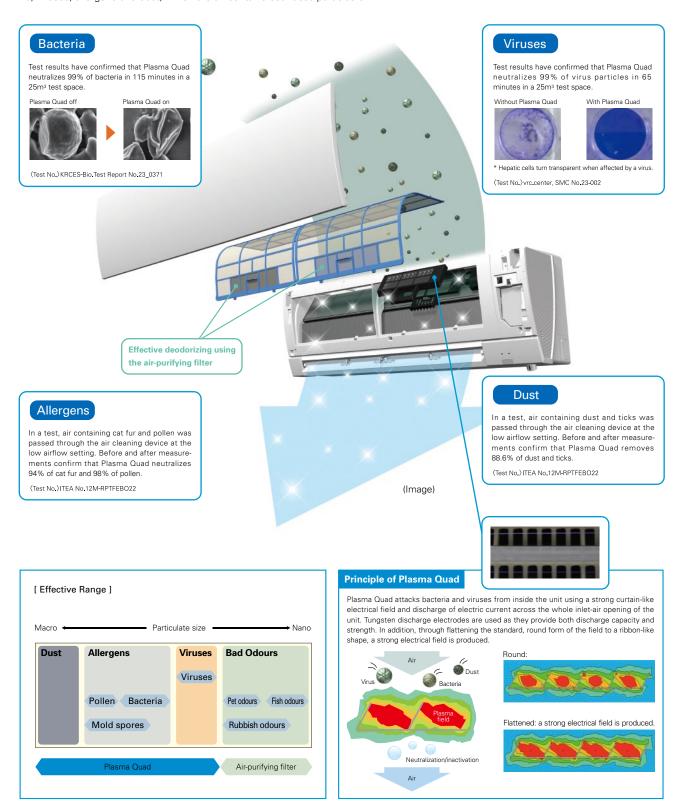
In regions with the following conditions, there is a possibility that water resulting from condensation on the outdoor unit when operating in the heating mode will freeze and not drain from the base.

- 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.

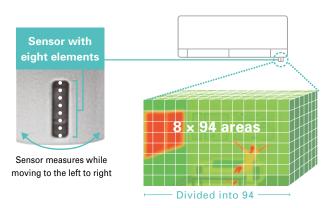


Air, like water, is something we use everyday unconsciously. Yet, clean, fresh air is a vital part of creating a healthy space for humans. Achieving this healthy air is Plasma Quad, a plasma-based filter system that effectively removes four kinds of air pollutants; namely, bacteria, viruses, allergens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



3D isee 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.



(Image)

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

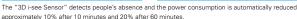
This setting can be used to directly target airflow at people such as for immediate comfort when coming indoors on a hot (cold) day.



Absence Detection

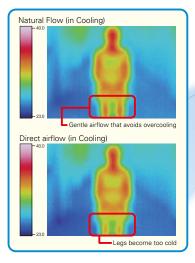
The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode





Natural Flow

To create "healthy" airflow, the most important aspect is that the flow of air feels natural. Mitsubishi Electric's solution to this is Natural Flow, only possible thanks to our technology that freely and flexibly controls airflow.



Double Vane

Mitsubishi Electric's double vane separates the airflow in the left and right directions to deliver airflow not only across a wide area of the room, but also simultaneously to two people in different

Through realizing airflow that imitates a natural breeze, we have avoided the unpleasant feeling of being hit directly by constant, unnatural airflow.

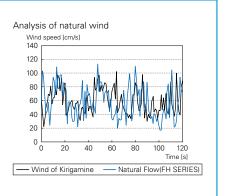
Base data for Natural Flow

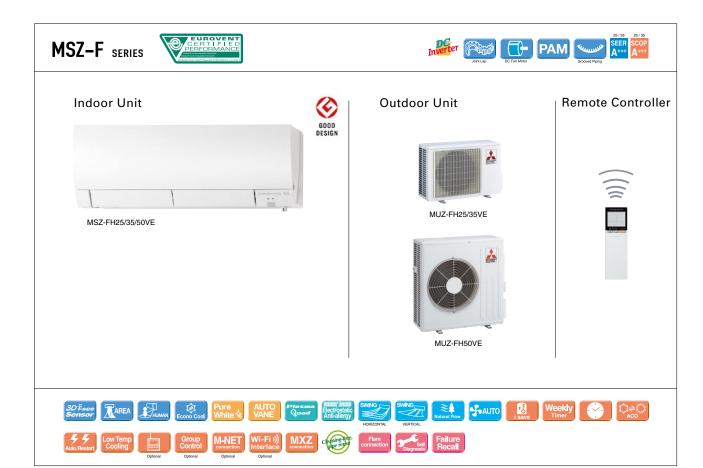


of natural wind

Kirigamine Highland

Kirigamine Highland is one of the most famous sightseeing spots in Japan, and is visited by a large number of people for its pleasant and comfortable environment. At Mitsubishi Electric, we have attempted to recreate this Kirigamine Highland comfort. As part of development, seeking to create a natural airflow, we measured actual data on the refreshing breezes of Kirigamine Highland. Through imitating the natural waveforms of this data, we have been able to recreate almost-imperceptible currents of gently comforting airflow.





ре					Inverter Heat Pump					
oor U	nit			MSZ-FH25VE	MSZ-FH35VE	MSZ-FH50VE				
tdoor	Unit			MUZ-FH25VE	MUZ-FH35VE	MUZ-FH50VE				
rigera	nt				R410A ^(*1)	•				
wer	Source			Outdoor Power supply						
pply	Outdoor (V / Ph	ase / Hz)		230/Single/50						
	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				
oling		Energy efficiency class	3	A+++	A+++	A++				
·		Rated	kW	2.5	3.5	5.0				
	Capacity	Min-Max	kW	1.4-3.5	0.8-4.0	1,9-6,0				
	Total Input	Rated	kW	0.485	0.820	1.380				
	Design load		kW	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)				
		at reference design temperature		3.0(-10°C)	3.6(-10°C)	4.5(-10°C)				
	Declared	at bivalent temperature	kW	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)				
	Capacity	at operation limit temperature	kW	2.5(-15°C)	3.2(-15°C)	5.2(-15°C)				
ating	Back up heating		kW	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)				
rage	Annual electricity		kWh/a	819	986	1372				
son) ^(*5)	SCOP (*4)			5.1	5.1	4.6				
		Energy efficiency class		A+++	A+++	A++				
		Rated	l kW	3.2	4.0	6.0				
	Capacity	Min-Max	kW	1.8-5.5	1.0-6.3	1.7-8.7				
	Total Input	Rated	kW	0.580	0.800	1.480				
eratin	ing Current (Max)		A	9.6	10.0	14.0				
0.00			kW	0.029	0.029	0.031				
	Operating Current(Max)		A	0.4	0.4	0.4				
	Dimensions H*W*D		mm	305(+17)-925-234	305(+17)-925-234	305(+17)-925-234				
	Weight		kg	13.5	13.5	13.5				
loor	Air Volume (SLo-Lo- Cooling		m³/min	3.9-4.7-6.3-8.6-11.6	3.9-4.7-6.3-8.6-11.6	6.4-7.4-8.6-10.1-12.4				
it	Mid-Hi-SHi ^(*3) (Dry/Wet))	Heating	m³/min	4.0-4.7-6.4-9.2-13.2	4.0-4.7-6.4-9.2-13.2	5.7-7.2-9.0-11.2-14.6				
	Sound Level (SPL)	Cooling	dB(A)	20-23-29-36-42	21-24-29-36-42	27-31-35-39-44				
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	20-24-29-36-44	21-24-29-36-44	25-29-34-39-46				
	Sound Level (PWL)	Cooling	dB(A)	58	58	60				
	Dimensions	H*W*D	mm	550-800-285	550-800-285	880-840-330				
	Weight	1	kg	37	37	55				
		Cooling	m³/min	31.3	33.6	48.8				
	Air Volume	Heating	m³/min	31.3	33.6	51.3				
tdoor		Cooling	dB(A)	46	49	51				
it	Sound Level (SPL)	Heating	dB(A)	49	50	54				
	Sound Level (PWL)		dB(A)	60	61	64				
	, ,		A A	9.6	9.6	13.6				
	Breaker Size		A	9,2	10	16				
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35 / 12.7				
t.	Max.Length Out-In		m	20	20	30				
ping	Max.Height	Out-In	m	12	12	15				
		Cooling	*C	-10 ~ +46	-10 ~ +46	-10 ~ +46				
uarante	teed Operating Cooling Outdoor) Heating		1 0 1	-10 ~ +46 -15 ~ +24	-10 ~ T40	-10 ~ T40				

^(*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) SHI: Super High

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

(*5) Please see page 47 for heating (warmer season) specifications.



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



Stylish Line-up Matches Any Room Décor

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



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.

Rank A for single connection	Compatibility									
MUZ-EF25/35VE(H)	MXZ									
MUZ-EF42/50VE	2D33VA	2D40VA	2D53VA	3D54VA	3D68VA	4D72VA	4D83VA	5D102VA	6C122VA	
_	~	~	~	~	~	~	~	~	~	
-	~	~	~	~	~	~	~	~	~	
A +++/ A++(A++*)	~	~	~	~	~	~	~	~	~	
A +++/ A++(A+*)		>	~	~	~	~	~	~	~	
A++/A++			~	~	~	~	~	~	~	
A++/A+			~	~	~	~	~	~	~	
	MUZ-EF25/35VE(H) MUZ-EF42/50VE - A***/A**(A***) A***/A**	MUZ-EF25/35VE(H) MUZ-EF42/50VE 2D33VA	MUZ-EF25/35VE(H) MUZ-EF42/50VE 2D33VA 2D40VA -	MUZ-EF25/35VE(H) MUZ-EF42/50VE	MUZ-EF25/35VE(H) MUZ-EF42/50VE 2D33VA 2D40VA 2D53VA 3D54VA -	MUZ-EF26/35VE(H) MUZ-EF42/50VE 2D33VA 2D40VA 2D53VA 3D54VA 3D68VA	MUZ-EF25/35VE(H) MUZ-EF42/50VE 2D33VA 2D40VA 2D53VA 3D54VA 3D68VA 4D72VA -	MUZ-EF25/35VE(H) MUZ-EF42/50VE 2D33VA 2D40VA 2D53VA 3D54VA 3D68VA 4D72VA 4D83VA - - - - - - - - - - - - -	MUZ-EF26/35VE(H) MUZ-EF42/50VE 2D33VA 2D40VA 2D53VA 3D54VA 3D68VA 4D72VA 4D83VA 5D102VA -	

Quiet Comfort All Day Long

Mitsubishi Electric's advanced "Silent Mode" fan speed setting provides super-quiet operation as low as 21dB for EF18/22/25/35 models. This unique feature makes the Kirigamine ZEN series ideal for use in any situation.



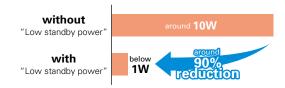
Superior Exterior and Operating Design Concept

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.



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

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



MSZ-E SERIES





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

Outdoor Unit









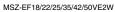


Remote Controller











MSZ-EF18/22/25/35/42/50VE2S



MSZ-EF18/22/25/35/42/50VE2B*

*Soft-dry Cloth is enclosed with Black models.















Black









MUZ-EF50VE































































Indoor Unit				MSZ-EF18VE2	MSZ-EF22VE2	MSZ-EF25VE2	MSZ-EF25VE2	MSZ-EF35VE2	MSZ-EF35VE2	MSZ-EF42VE2	MSZ-EF50VE2
Outdoor	Unit			for MXZ o	onnection	MUZ-EF25VE	MUZ-EF25VEH	MUZ-EF35VE	MUZ-EF35VEH	MUZ-EF42VE	MUZ-EF50VE
Refrigera	int			R410A ⁽¹⁾							
Power	Source			Outdoor Power supply							
Supply	Outdoor (V / Phase / Hz)			230/Single/50							
	Design load kW			-	-	2.5	2.5	3.5	3.5	4.2	5.0
	Annual electricity consumption (*2) kWh/a		-	-	103	103	144	144	192	244	
	SEER (*4)			-	-	8.5	8.5	8.5	8.5	7.7	7.2
Cooling		Energy efficiency class	5	-	-	A+++	A+++	A+++	A+++	A++	A++
		Rated	kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0
	Capacity	Min-Max	kW	-	-	1.2-3.4	1.2-3.4	1.4-4.0	1.4-4.0	0.9-4.6	1.4-5.4
	Total Input	Rated	kW	-	-	0.545	0.545	0.910	0.910	1.280	1.560
	Design load	*	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)	3.8(-10°C)	4.2(-10°C)
		at reference design temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)	3.8(-10°C)	4.2(-10°C)
	Declared Capacity	at bivalent temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)	3.8(-10°C)	4.2(-10°C)
	Capacity	at operation limit temperature	kW	-	-	2.0(-15°C)	1.6(-20°C)	2.4(-15°C)	1.7(-20°C)	3.4(-15°C)	3.5(-15°C)
Heating	Back up heating		kW	-	-	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)
(Average	Annual electricity	consumption (*2)	kWh/a	-	-	716	730	882	910	1155	1309
Season)(*5)	SCOP (*4)			-	-	4.7	4.6	4.6	4.5	4.6	4.5
		Energy efficiency class	3	-	-	A++	A++	A++	A+	A++	A+
	Capacity	Rated	kW	-	-	3.2	3.2	4.0	4.0	5.4	5.8
	Сараспу	Min-Max	kW	-	-	1.1-4.2	1.1-4.2	1.8-5.5	1.8-5.5	1.4-6.3	1.6-7.5
	Total Input	Rated	kW	-	-	0.700	0.700	0.955	0.955	1.460	1.565
Operatin	g Current (Max)		Α	-	-	7.3	7.3	8.5	8.5	9.5	12.4
	Input	Rated	kW	0.027	0.027	0.027	0.027	0.031	0.031	0.031	0.034
	Operating Curre	ent(Max)	Α	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
	Dimensions	H*W*D	mm	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195
	Weight		kg	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
Indoor Unit	Air Volume (SLo-Lo-	Cooling	m³/min	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	5.8 - 6.6 - 7.7 - 8.9 - 10.3	5.8 - 6.8 - 7.9 - 9.3 - 11.0
Oiiii	Mid-Hi-SHi ^(*3) (Dry/Wet))	Heating	m³/min	4.0 - 4.6 - 6.2 - 8.9 - 11.9	4.0 - 4.6 - 6.2 - 8.9 - 11.9	4.0 - 4.6 - 6.2 - 8.9 - 11.9	4.0 - 4.6 - 6.2 - 8.9 - 11.9	4.0 - 4.6 - 6.2 - 8.9 - 12.7	4.0 - 4.6 - 6.2 - 8.9 - 12.7	5.5 - 6.3 - 7.8 - 9.9 - 12.7	6.4 - 7.3 - 9.0 - 11.1 - 13.2
	Sound Level (SPL)	Cooling	dB(A)	21 - 23 - 29 - 36 - 42	21 - 23 - 29 - 36 - 42	21 - 23 - 29 - 36 - 42	21 - 23 - 29 - 36 - 42	21 - 24 - 29 - 36 - 42	21 - 24 - 29 - 36 - 42	28 - 31 - 35 - 39 - 42	30 - 33 - 36 - 40 - 43
	(SLo-Lo-Mid-Hi-SHi ^(*3))	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
	Sound Level (PWL)	Cooling	dB(A)	-	-	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	880-840-330
	Weight		kg	-	-	30	30	35	35	35	54
	Air Volume	Cooling	m³/min	-	-	32.6	32.6	33.6	33.6	35.2	44.6
Outdoor	7 iii Volunio	Heating	m³/min	-	-	32.2	32.2	33.6	33.6	33.6	44.6
Unit	Sound Level (SPL)	Cooling	dB(A)	-	-	47	47	49	49	50	52
	, ,	Heating	dB(A)	-	-	48	48	50	50	51	52
	Sound Level (PWL)		dB(A)	-	-	58	58	61	61	62	65
	Operating Current (Max)		-	-	7.0	7.0	8.2	8.2	9.2	12.0	
	Breaker Size	1	A	-	-	10	10	10	10	10	16
Ext.	Diameter	Liquid/Gas	mm	-	-	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7
Piping	Max.Length	Out-In	m	-	-	20	20	20	20	20	30
	Max.Height	Out-In	m	-	-	12	12	12	12	12	15
	eed Operating	Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
Range (C	(Outdoor) Heating		°C	-	-	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24

^(*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) 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 47 for heating (warmer season) specifications.

MSZ-S SERIES MSZ-G SERIES

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



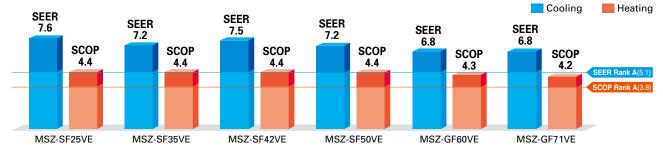
"Rank A++/A+" Energy Savings Achieved for Entire Range of Series







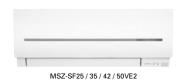
All models in the series, from the low-capacity 25 to the high-capacity 71, have achieved the "Rank A*" for SEER and "Rank A*" for SCOP as energy-savings rating. For home use, such as in bedrooms and living rooms, to light commercial use, such as in offices, our air conditioners are contributing to reduced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



Wide Line-up

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







Compact and Stylish

(MSZ-SF15/20VA)

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

Comparison with our previous model GE





Family Design

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

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

*Size may vary.





"Weekly Timer"



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

■ Example Operation Pattern (Winter/Heating mode)

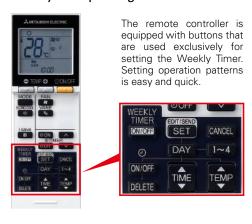
	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
r.00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
6:00			Automatically change	es to high-power opera	tion at wake-up time		
8:00							
10:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00 14:00		Automatic		Midday is warmer, so the temperatur	e is set lower		
15:00							
18:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
20:00 20:00		Automatically tur	ns on, synchronized w	ith arrival at home		Automatically raises ten match time when outsid	nperature setting to de-air temperature is low
(during sleeping hours)	011 4000	01/400					011 4000
(during steeping nouts)	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
		Automa	atically lowers tempera	ture at bedtime for en	ergy-saving operation a	t night	

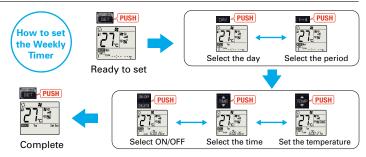
Settings

Pattern Settings: Input up to four settings for each day

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

■ Easy set-up using dedicated buttons -

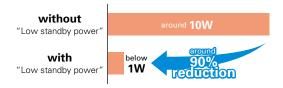




- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired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

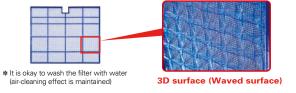
Low Standby Power

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.



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

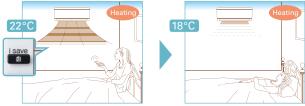
This filter incorporates nanometre-sized platinum-ceramic particles that generate stable antibacterial and deodourising effects. The size of the three-dimensional surface has been increased as well, enlarging the filter capture area. These features give the Nano Platinum Filter better dust collection performance than conventional filters. The superior air-cleaning effectiveness raises room comfort yet another level



"i save" Mode



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



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

Outdoor Units for Cold Region

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





MSZ-S SERIES Indoor Unit Outdoor Unit Remote Controller For MXZ Connection Only MSZ-SF15/20VA

Туре						Inverter F	leat Pump						
Indoor Ur	nit			MSZ-SF15VA	MSZ-SF20VA	MSZ-SF25VE2	MSZ-SF25VE2	MSZ-SF35VE2	MSZ-SF35VE2				
Outdoor I	Jnit			for MXZ o	onnection	MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH				
Refrigera	perant R410A ⁽¹⁾												
Power	Source			Outdoor Power supply									
Supply	Outdoor (V / Ph	ase / Hz)		230/Single/50									
	Design load	, ,	kW	-	-	2.5	2.5	3.5	3.5				
	Annual electricity	consumption (*2)	kWh/a	-	-	116	116	171	171				
	SEER (*4)			-	-	7.6	7.6	7.2	7.2				
Cooling		Energy efficiency class		-	-	A++	A++	A++	A++				
		Rated	kW	-	-	2.5	2.5	3.5	3.5				
	Capacity	Min-Max	kW	-	-	0.9-3.4	0.9-3.4	1.1-3.8	1.1-3.8				
	Total Input	Rated	kW	-	-	0.600	0.600	1.080	1.080				
	Design load		kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)				
		at reference design temperature	_	_	_	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)				
	Declared	at bivalent temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)				
	Capacity	at operation limit temperature	kW	_	_	2.0(-15°C)	1.6(-20°C)	2.2(-15°C)	1.6(-20°C)				
	Back up heating		kW	_	_	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)				
Heating (Average	Annual electricity		kWh/a	_	_	764	790	923	948				
Season)(*5)	SCOP (*4)	consumption	KVVIII		_	4.4	4.3	4.4	4.3				
,	0001	Energy efficiency class		-	-	A+	A+	A+	A+				
		Rated	kW	_	_	3.2	3.2	4.0	4.0				
	Capacity	Min-Max	kW	_	_	1.0-4.1	1.0-4.1	1.3-4.6	1.3-4.6				
			kW		_	0.780	0.780	1.030	1.030				
Operation	a Current (Max)	riated	A	_	_	8.4	8.4	8.5	8.5				
Орегани	Input	Rated	kW	0.017	0.019	0.024	0.024	0.027	0.027				
	Operating Curre		A	0.17	0.19	0.024	0.024	0.027	0.3				
	Dimensions H*W*D		mm	250-760-168	250-760-168	299-798-195	299-798-195	299-798-195	299-798-195				
	Weight	II W D	kg	7.7	7.7	10	10	10	10				
Indoor	Air Volume (SLo-Lo-	Cooling	m³/min	3.5 - 3.9 - 4.6 - 5.5 - 6.4	3.5 - 3.9 - 4.6 - 5.5 - 6.9	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1				
Unit	Mid-Hi-SHi ^(*3) (Dry/Wet))	Heating	m³/min	3.7 - 4.4 - 5.0 - 6.0 - 6.8	3.7 - 4.4 - 5.0 - 6.0 - 7.3	3.0 - 4.1 - 6.7 - 8.2 - 10.3	3.0 - 4.1 - 6.7 - 8.2 - 10.3	3.0 - 4.1 - 6.7 - 8.3 - 11.0	3.0 - 4.1 - 6.7 - 8.3 - 11.0				
	Sound Level (SPL)	Cooling	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19(16) - 24 - 30 - 36 - 42	19(16) - 24 - 30 - 36 - 42	19(16) - 24 - 30 - 36 - 42	19(18) - 24 - 30 - 36 - 42				
	(SLo-Lo-Mid-Hi-SHi(*3))	Heating	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 - 24 - 30 - 30 - 42	19 - 24 - 30 - 30 - 42	19 - 24 - 30 - 30 - 42	19 - 24 - 30 - 30 - 42				
	Sound Level (PWL)	Cooling	dB(A)	59	60	57	57	57	57				
	Dimensions	H*W*D	mm	- 55		550-800-285	550-800-285	550-800-285	550-800-285				
	Weight	II W D	kg		-	31	31	31	31				
	Weight	Cooling	m³/min		-	31.1	31.1	35.9	35.9				
	Air Volume	Heating	m³/min	-	-	30.7	30.7	35.9	35.9				
Outdoor		Cooling	dB(A)	-	-	47	47	49	49				
Unit	Sound Level (SPL)	Heating	dB(A)		-	48	48	50	50				
	Sound Level (PWL)		dB(A)	_	-	58	58	62	62				
	Operating Curre		A A	=	=	8.2	8.2	8.2	8.2				
	Breaker Size	iii (ividX)	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	6.35 / 9.52				
Ext.	Max.Length	Out-In	m	0.00/9.02	0.00/9.02	20	20	20	20				
Piping	Max.Height	Out-In	m	=	-	12	12	12	12				
O		Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46				
Range (C	eed Operating	Heating	°C	-	-	-10 ~ +46 -15 ~ +24	-10 ~ +46 -20 ~ +24	-10 ~ +46 -15 ~ +24	-10 ~ +46 -20 ~ +24				
nange (C	rutuooi j				WP) would contribute less to al	-							

^(*1) Refugerant 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.

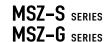
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHE: 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 47 for heating (warmer season) specifications.

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





















MSZ-SF25/35/42/50VE2



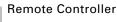
Outdoor Unit



MUZ-SF25/35/42VE(H)





























































Туре						Inverter H	leat Pump							
Indoor Ur	nit			MSZ-SF42VE2	MSZ-SF42VE2	MSZ-SF50VE2	MSZ-SF50VE2	MSZ-GF60VE	MSZ-GF71VE					
Outdoor l	Jnit			MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH	MUZ-GF60VE	MUZ-GF71VE					
Refrigerant R410A ⁽¹⁾														
Power	Source				R410A" Outdoor Power supply 230/Single/50									
Supply	Outdoor (V/Ph	ase / Hz)												
	Design load		kW	4.2	4.2	5	5	6.1	7.1					
	Annual electricity	consumption (*2)	kWh/a	196	196	246	246	311	364					
	SEER (*4)			7.5	7.5	7.2	7.2	6.8	6.8					
Cooling		Energy efficiency class		A++	A++	A++	A++	A++	A++					
	Capacity	Rated	kW	4.2	4.2	5	5	6.1	7.1					
	Сарасіту	Min-Max	kW	0.8-4.5	0.8-4.5	1.4-5.4	1.4-5.4	1.4-7.5	2.0-8.7					
	Total Input	Rated	kW	1.340	1.340	1.660	1.660	1.790	2.130					
	Design load		kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)					
		at reference design temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)					
	Declared Capacity	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)					
	Сарасну	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)					
Heating	Back up heating	capacity	kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)					
(Average	Annual electricity	consumption (*2)	kWh/a	1215	1242	1351	1380	1489	2204					
Season)(*5)	SCOP (*4)			4.4	4.3	4.4	4.3	4.3	4.2					
,		Energy efficiency class		A+	A+	A+	A+	A+	A+					
		Rated	kW	5.4	5.4	5.8	5.8	6.8	8.1					
	Capacity	Min-Max	kW	1.3-6.0	1.3-6.0	1.4-7.3	1.4-7.3	2.0-9.3	2.2-9.9					
	Total Input	Rated	kW	1.580	1.58	1.7	1.7	1.81	2.23					
Operating	g Current (Max)		Α	9.5	9.5	12.3	12.3	14.5	16.6					
	Input	Rated	kW	0.027	0.027	0.035	0.035	0.062	0.058					
	Operating Curre	ent(Max)	Α	0.3	0.3	0.3	0.3	0.5	0.5					
	Dimensions	H*W*D	mm	299-798-195	299-798-195	299-798-195	299-798-195	325-1100-238	325-1100-238					
	Weight		kg	10	10	10	10	16	16					
Indoor Unit	Air Volume (SLo-Lo-	Cooling	m³/min	4.7 - 5.8 - 6.7 - 7.9 - 9.1	4.7 - 5.8 - 6.7 - 7.9 - 9.1	5.1 - 6.2 - 7.0 - 8.2 - 9.9	5.1 - 6.2 - 7.0 - 8.2 - 9.9	9.8-11.3-13.4-15.6-18.3	9.7-11.5-13.3-15.4-17.8					
Offic	Mid-Hi-SHi(1-3) (Dry/Wet))	Heating	m³/min	4.7 - 5.8 - 7.2 - 9.1 - 11.4	4.7 - 5.8 - 7.2 - 9.1 - 11.4	5.1 - 6.4 - 8.0 - 9.8 - 12.0	5.1 - 6.4 - 8.0 - 9.8 - 12.0	9.8-11.3-13.4-15.6-18.3	10.2-11.5-13.3-15.4-17.8					
	Sound Level (SPL)	Cooling	dB(A)	26 ⁽¹⁶⁾ - 31 - 34 - 38 - 42	26 ^(*6) - 31 - 34 - 38 - 42	28 ⁽⁷⁾ - 33 - 36 - 40 - 45	28 ⁽¹⁷⁾ - 33 - 36 - 40 - 45	29 - 37 -41 - 45 - 49	30 - 37 - 41 - 45 - 49					
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	26 ^(*6) - 31 - 36 - 42 - 47	26 ⁽¹⁶⁾ - 31 - 36 - 42 - 47	28 ⁽⁷⁾ - 33 - 38 - 43 - 49	28 ⁽¹⁷⁾ - 33 - 38 - 43 - 49	29 - 37 - 41 - 45 - 49	30 - 37 - 41 - 45 - 49					
	Sound Level (PWL)	Cooling	dB(A)	57	57	58	58	65	65					
	Dimensions	H*W*D	mm	550-800-285	550-800-285	880-840-330	880-840-330	880-840-330	880-840-330					
	Weight		kg	35	35	55	55	50	53					
	Air Volume	Cooling	m³/min	35.2	35.2	44.6	44.6	49.2	50.1					
	Air volume	Heating	m³/min	33.6	33.6	44.6	44.6	49.2	48.2					
Outdoor Unit	Council (CDI)	Cooling	dB(A)	50	50	52	52	55	55					
Oilit	Sound Level (SPL)	Heating	dB(A)	51	51	52	52	55	55					
	Sound Level (PWL)	Cooling	dB(A)	63	63	65	65	65	65					
	Operating Curre	ent (Max)	Α	9.2	9.2	12	12	14	16.1					
	Breaker Size		Α	10	10	16	16	20	20					
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7	6.35/15.88	9.52/15.88					
Ext. Piping	Max.Length	Out-In	m	20	20	30	30	30	30					
Pipilig	Max.Height	Out-In	m	12	12	15	15	15	15					
Guarante	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46					
Range (O		Heating	°C	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24					
(*1) Refriger:	ent leakage contribute	es to climate change. Refrigerar	at with low	ver alobal warming notential (C	M/D) would contribute less to a	ohal warming than a refrigerent	with higher GMP if leaked to t	he atmoenhere. This anniiance	contains a refrigerant fluid with					

[&]quot;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 with lower global warming 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) For single use: only 28dB(A), For multi use (MXZ): 28dB(A).



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







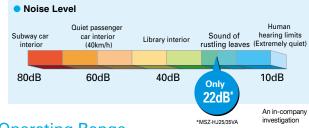




Mitsubishi Electric's cutting-edge inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises an Energy Rank "A" rating for 25/35 classes and "A+" for 50/60/71 classes.

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.



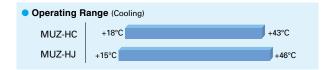
Long Piping Length

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.

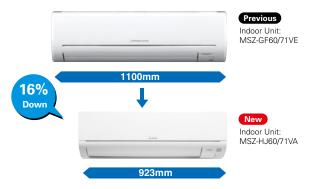
Indoor Unit: MSZ-HJ25/35/50VA

Only 799mm width

Only 699mm width

Outdoor Unit: MUZ-HJ25/35VA

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

















Remote Controller































Type					Inverter Heat Pump						
Indoor U	nit			MSZ-HJ25VA	MSZ-HJ35VA	MSZ-HJ50VA	MSZ-HJ60VA	MSZ-HJ71VA			
Outdoor	Unit			MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA	MUZ-HJ60VA	MUZ-HJ71VA			
Refrigera	nt					R410A ^(*1)					
Power	Source			Indoor Power supply							
Supply	Outdoor (V / Ph	ase / Hz)		230V/Single/50Hz							
	Design load		kW	2.5	3.1	5.0	6.1	7.1			
	Annual electricity	consumption (*2)	kWh/a	171	212	292	354	441			
	SEER (*4)			5.1	5.1	6.0	6.0	5.6			
Cooling		Energy efficiency class	s	A	A	A+	A+	A+			
	Capacity	Rated	kW	2.5	3.15	5.0	6.1	7.1			
	Сараспу	Min-Max	kW	1.3 - 3.0	1.4 - 3.5	1.3 - 5.0	1.7 - 7.1	1.8 - 7.1			
	Total Input	Rated	kW	0.730	1.040	2.050	1.900	2.330			
	Design load		kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)			
		at reference design temperature	e kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)			
	Declared Capacity	at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)			
	Сарасну	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)			
leating	Back up heating	capacity	kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)			
Average	Annual electricity	consumption (*2)	kWh/a	698	885	1267	1544	1854			
Season) ^(*5)	SCOP (*4)			3.8	3.8	4.2	4.1	4.0			
		Energy efficiency class	s	A	A	A+	A+	A+			
		Rated	kW	3.15	3.6	5.4	6.8	8.1			
	Capacity	Min-Max	kW	0.9 - 3.5	1.1 - 4.1	1.4 - 6.5	1.5 - 8.4	1.5 - 8.5			
	Total Input	Rated	kW	0.870	0.995	1.480	1.970	2.440			
Operatin	g Current (Max)		А	5.8	6.5	9.8	12.5	12.5			
Operating	Input	Rated	kW	0.020	0.021	0.037	0.055	0.055			
	Operating Curre	ent(Max)	A	0.3	0.3	0.4	0.5	0.5			
	Dimensions	H*W*D	mm	290-799-232	290-799-232	290-799-232	305-923-250	305-923-250			
	Weight		kg	9	9	9	13	13			
ndoor	Air Volume (SLo-Lo-	Cooling	m³/min	3.8 - 5.5 - 7.3 - 9.5	3.8 - 5.7 - 7.8 - 10.9	6.3 - 9.1 - 11.1 - 12.9	9.3 - 12.2 - 15.0 - 19.9	10.0 - 12.2 - 15.0 - 19.9			
Jnit	Mid-Hi-SHi ⁽⁺³⁾ (Dry/Wet))	Heating	m³/min	3.5 - 5.5 - 7.5 - 10.0	3.5 - 5.5 - 7.5 - 10.3	6.1 - 8.3 - 11.1 - 14.3	9.4 - 12.5 - 16.0 - 19.9	10.3 - 12.7 - 16.4 - 19.9			
	Sound Level (SPL)	Cooling	dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 45	28 - 36 - 40 - 45	31 - 38 - 44 - 50	33 - 38 - 44 - 50			
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	23 - 30 - 37 - 43	23 - 30 - 37 - 44	27 - 34 - 41 - 47	31 - 38 - 44 - 49	33 - 38 - 44 - 49			
	Sound Level (PWL)	Cooling	dB(A)	57	60	60	65	65			
	Dimensions	H*W*D	mm	538-699-249	538-699-249	550-800-285	880-840-330	880-840-330			
	Weight		kg	24	25	36	55	55			
	_	Cooling	m³/min	31.5	31.5	36.3	47.9	49.3			
	Air Volume	Heating	m³/min	31.5	31.5	34.8	47.9	47.9			
Outdoor		Cooling	dB(A)	50	50	50	55	55			
Jnit	Sound Level (SPL)	Heating	dB(A)	50	50	51	55	55			
	Sound Level (PWL)		dB(A)	63	64	64	65	66			
	Operating Curre		A	5.5	6.2	9.4	12	12			
	Breaker Size		A	10	10	12	16	16			
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/12.7	6.35/15.88	9.52/15.88			
Ext.	Max.Length	Out-In	m	20	20	20	30	30			
Piping	Max.Height	Out-In	m	12	12	12	15	15			
Guarant		Cooling	*C	+15 ~ +46	+15 ~ +46	+15 ~ +46	+15 ~ +46	+15 ~ +46			
Guaranteed C Range (Outdo	vou operanis	9	"		1	1 110 110	1.10 1.10	1			

^(*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) 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 47 for heating (warmer season) specifications.

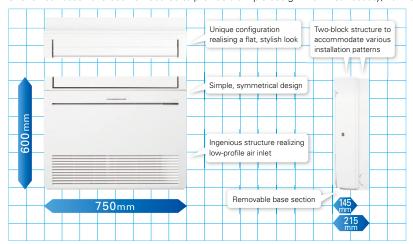
MFZ SERIES

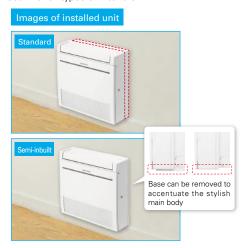
High Capacity, Energy Savings and a Design in Harmony with Living Spaces Raise the Value of Your Room to the Next Level.



Simple, Flat Design

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

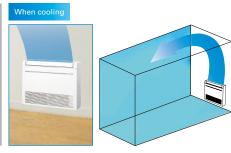




Multi-flow Vane

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



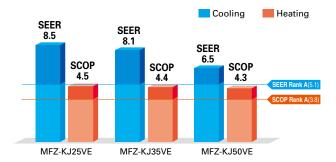


*The downward airflow is also possible as well as heating.

Excellent Energy-saving Performance



SEER A $^{+++}$ (25) and SCOP A $^{+}$ (25/35/50) ratings have been achieved through development focusing on compliance with European energy-related product (ErP) regulations.



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.

Trouble-free Installation and Maintenance

Using the original installation plate that comes as standard equipment, installation of the unit is a snap. Levelling adjusters are provided, preventing damage to the wall. Generous pipe length (20–30 metres) is provided, so there is no need to worry about distance to the outdoor unit. All units are equipped with an automatic self-diagnostics function as well. Simply access the trouble log recall mode for instant troubleshooting.















Indoor Unit



Outdoor Unit



MUFZ-KJ25/35VE



MUFZ-KJ50VE

Remote Controller







































MFZ-KJ25/35/50VE

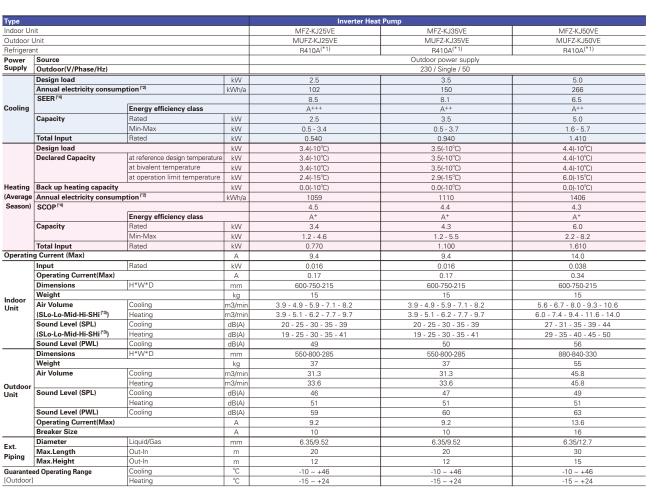












^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that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

MLZ SERIES

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



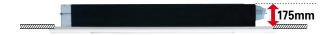
Ceiling Mounted

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



Slim Body

The new units are designed with a slim body (only 175mm high), ensuring easy installation even when low ceiling cavities limit installation space. The need for ceiling cavity service space is also eliminated, further reducing the dimensions required for installation.



Set Airflow According to Ceiling Height

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

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

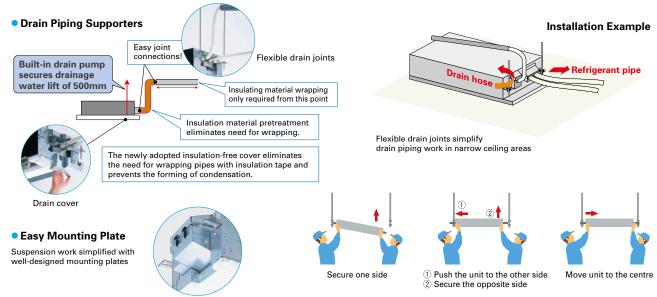
Auto Vane Control

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



Easy Installation

A built-in drain pump (500mm lift) and flexible drain joints make attaching the drain hose in the ceiling cavity easy, resulting in simple and fast installation. Tight yet flexible fittings eliminate the need of wrapping with heat-insulation tape, and ensure that pipe and drain cover connections are free of condensation.



MLZ-KA SERIES Indoor Unit **Outdoor Unit** Remote Controller For MXZ Connection Only MLZ-KA25/35/50VA **Panel** MLP-440W

AUTO VANE Enzyme Catechin SWNG High J SAUTO Selling J SAUTO SELINI SELI

ype					Inverter Heat Pump	
door Unit		· · · · · · · · · · · · · · · · · · ·		MLZ-KA25VA	MLZ-KA35VA	MLZ-KA50VA
utdoor Ur					for MXZ connection	•
frigerant					R410A(*1)	
	Source				Outdoor Power supply	
	Outdoor (V / Ph	ase / Hz)			230V / Single / 50Hz	
	Design load	,	kW	-		_
	nnual electricity	consumption (*2)	kWh/a	_		_
	SEER (*4)	consumption	KVVII/G	_		_
ooling	LLN	Energy efficiency class				_
		Rated	kW			_
c	Capacity	Min-Max	kW	-		_
-	otal Input	Rated	kW	-		
		nateu		-	-	-
L	Design load	-tt	kW			-
0	Declared	at reference design temperature	kW			
	Capacity	at bivalent temperature	kW	-	÷	-
ļ.		at operation limit temperature	kW	=	<u> </u>	-
	Back up heating		kW	=	-	-
	nnual electricity	consumption 12	kWh/a	=	-	-
ason) S	COP (*4)			-	-	-
		Energy efficiency class		-	-	-
	Capacity	Rated	kW	-	-	-
		Min-Max	kW	-	-	-
T	otal Input	Rated	kW	-	-	-
erating	Current (Max)		Α	0.4	0.4	0.4
li	nput	Rated	kW	0.040	0.040	0.040
C	perating Curre	nt(Max)	A	=	-	-
0	Dimensions	H*W*D	mm	175-1102-360	175-1102-360	175-1102-360
. v	Veight		kg	15	15	15
door it	ir Volume (SLo-Lo-	Cooling	m³/min	7.2-8.0-8.8	7.3-8.4-9.4	8.3-9.8-11.4
M	lid-Hi-SHi ⁽¹⁻³⁾ (Dry/Wet))	Heating	m³/min	7.0-8.2-9.2	7.7-8.8-9.9	8.8-10.3-11.8
s	ound Level (SPL)	Cooling	dB(A)	29-32-35	31-34-37	34-38-43
	SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	28-32-36	31-35-38	34-39-43
<u>, , , , , , , , , , , , , , , , , , , </u>	ound Level (PWL)	Cooling	dB(A)	52	54	60
	Dimensions	H*W*D	mm	34-1200-414	34-1200-414	34-1200-414
	Veight		kg	3.5	3.5	3.5
_	Dimensions	H*W*D	mm	-	-	-
_	Veight		kg	_		_
		Cooling	m³/min			
Α	ir Volume	Heating	m³/min		- -	-
tdoor			dB(A)		<u>=</u> =	-
it s	ound Level (SPL)	Cooling	- ' /			
ļ.		Heating	dB(A)	-	-	-
	ound Level (PWL)	Cooling	dB(A)	=	=	=
	perating Curre	nt (Max)	A	-	<u> </u>	-
	Breaker Size		A	-	-	-
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/12.7
nina 🗥	Max.Length	Out-In	m	-	<u>-</u>	-
١. ٥	/lax.Height	Out-In	m	-	-	-
	d Operating	Cooling	℃	-	-	-
ange (Out	tdoor)	Heating	°C	_	<u>-</u>	_

^(*1) Refigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 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 Gossemble the product yourself or 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) SHE 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".

Specification on Warmer Condition

Туре						Inverter F	leat Pump		
Indoor Ur	nit			MSZ-F	H25VE	MSZ-FH35VE		MSZ-FH50VE	
Outdoor I	Unit			MUZ-FH25VE	MUZ-FH25VEHZ	MUZ-FH35VE	MUZ-FH35VEHZ	MUZ-FH50VE	MUZ-FH50VEHZ
Refrigera	nt		R410A (*1)						
	Design load kW				2.5	3.5	3.5	5.0	5.0
Cooling	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++
	Design load		kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)
		at reference design temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)
	Declared Capacity	at bivalent temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)
Heating (Warmer	Capacity	at operation limit temperature	kW	2.5 (-15°C)	1.7 (-25°C)	3.2 (-15°C)	2.6 (-25°C)	5.2 (-15°C)	3.8 (-25°C)
Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
2230011)	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+++

Туре						Inverter H	leat Pump		
Indoor Ur	nit			MSZ-EI	F25VE2	MSZ-EF35VE2		MSZ-EF42VE2	MSZ-EF50VE2
Outdoor I	Unit			MUZ-EF25VE	MUZ-EF25VEH	MUZ-EF35VE	MUZ-EF35VEH	MUZ-EF42VE	MUZ-EF50VE
Refrigera	nt					R41	OA (*1)		
	Design load		kW	2.5	2.5	3.5	3.5	4.2	5.0
Cooling	Annual electricity	y consumption (*2)	kWh/a	103	103	144	144	192	244
	SEER			8.5	8.5	8.5	8.5	7.7	7.2
	Energy efficiency class			A+++	A+++	A+++	A+++	A++	A++
	Design load kW			1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)
		at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)
	Declared Capacity	at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)
Heating (Warmer	Capacity	at operation limit temperature	kW	2.0 (-15°C)	1.6 (-20°C)	2.4 (-15°C)	1.7 (-20°C)	3.4 (-15°C)	3.5 (-15°C)
(warmer Season)	Back up heatin	g capacity	kW	0.0 (2°C)					
0000011,	Annual electricity	y consumption (*2)	kWh/a	304	304	396	396	491	557
	SCOP			6.0	6.0	5.7	5.7	6.0	5.8
	Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++	

Туре							Inverter H	eat Pump			
Indoor Ur	nit			MSZ-SF25VE2		MSZ-SF35VE2		MSZ-SF42VE2		MSZ-SF50VE2	
Outdoor I	Unit			MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH	MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH
Refrigera	nt						R410	A (*1)			
	Design load		kW	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0
Cooling	Annual electricity	consumption (*2)	kWh/a	116	116	171	171	196	196	246	246
0009	SEER			7.6	7.6	7.2	7.2	7.5	7.5	7.2	7.2
		Energy efficiency class		A++							
	Design load		kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
		at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
	Declared Capacity	at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
Heating (Warmer	Capacity	at operation limit temperature	kW	2.0 (-15°C)	1.6 (-20°C)	2.2 (-15°C)	1.6 (-20°C)	3.4 (-15°C)	2.2 (-20°C)	3.4 (-15°C)	2.3 (-20°C)
Season)	Back up heating	capacity	kW	0.0 (2°C)							
2230011)	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+++							

_						
Туре			Inverter Heat Pump			
Indoor Ur	nit	MSZ-GF60VE	MSZ-GF71VE			
Outdoor	Unit	MUZ-GF60VE	MUZ-GF71VE			
Refrigera	nt			R410)A (*1)	
	Design load		kW	6.1	7.1	
Cooling	Annual electricity	consumption (*2)	kWh/a	311	364	
	SEER			6.8	6.8	
		Energy efficiency class		A++	A++	
	Design load		kW	2.5 (2°C)	3.7 (2°C)	
		At reference design temperature	kW	2.5 (2°C)	3.7 (2°C)	
	Declared Capacity	at bivalent temperature	kW	2.5 (2°C)	3.7 (2°C)	
Heating (Warmer	Сарасну	at operation limit temperature	kW	3.7 (-15°C)	5.4 (-15°C)	
Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)	
,	Annual electricity	consumption (*2)	kWh/a	664	963	
	SCOP (*4)			5.3	5.4	
		Energy efficiency class		A+++	A+++	

Туре			Inverter Heat Pump				
Indoor Ur	nit		MSZ-HJ25VA	MSZ-HJ35VA	MSZ-HJ50VA		
Outdoor I	Unit		MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA		
Refrigera	nt				R410A (*1)		
	Design load		2.5	3.1	5.0		
Cooling	Annual electricity	consumption (*2)	kWh/a	171	212	292	
Cooming	SEER			5.1	5.1	6.0	
		Energy efficiency class		Α	Α	A ⁺	
	Design load		kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	
		at reference design temperature		1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	
	Declared Capacity	at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	
Heating	Сарасну	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	
(Warmer Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	
Coasony	Annual electricity	consumption (*2)	kWh/a	356	426	539	
	SCOP			4.3	4.3	5.5	
		Energy efficiency class		A ⁺	A ⁺	A+++	

^(*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 Gassesmible the product yourself or 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.

Specification on Warmer Condition

Туре						Inverter H	eat Pump		
Model		Indoor		MFZ-KJ25VE		MFZ-KJ35VE		MFZ-Ł	KJ50VE
iviodei		Outdoor		MUFZ-KJ25VE	MUFZ-KJ25VEHZ	MUFZ-KJ35VE	MUFZ-KJ35VEHZ	MUFZ-KJ50VE	MUFZ-KJ50VEHZ
	wer levels	Inside	dB	49	49	50	50	56	56
on coolin	g mode	Outside	dB	59	59	60	60	63	63
Refrigera	nt					R410A G	NP 1975 ^(*1)		
	SEER			8.5	8.5	8.1	8.1	6.5	6.5
Cooling	Energy efficiend	cy class		A+++	A+++	A++	A++	A++	A++
	Annual electricity consumption (*2) kWh/a			102	102	150	150	266	266
	Design load kW			2.5	2.5	3.5	3.5	5.0	5.0
	SCOP			4.5/5.1	4.4/5.4	4.4/5.3	4.3/5.4	4.3/5.8	4.2/5.7
	Energy efficiend			A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++
Heating	Annual electricity	consumption (*2)	kWh/a	1059/511	1104/490	1110/499	1158/510	1406/579	1467/603
(Average season/	Design load		kW	3.4 (-10°C)/1.9 (2°C)	3.5 (-10°C)/1.9 (2°C)	3.5 (-10°C)/1.9 (2°C)	3.6 (-10°C)/2.0 (2°C)	4.4 (-10°C)/2.4 (2°C)	4.5 (-10°C)/2.5 (2°C)
Warmer		at reference design temperature	kW	3.4 (-10°C)/1.9 (2°C)	3.5 (-10°C)/1.9 (2°C)	3.5 (-10°C)/1.9 (2°C)	3.6 (-10°C)/2.0 (2°C)	4.4 (-10°C)/2.4 (2°C)	4.5 (-10°C)/2.5 (2°C)
season)	Declared Capacity	at bivalent temperature	kW	3.4 (-10°C)/1.9 (2°C)	3.5 (-10°C)/1.9 (2°C)	3.5 (-10°C)/1.9 (2°C)	3.6 (-10°C)/2.0 (2°C)	4.4 (-10°C)/2.4 (2°C)	4.5 (-10°C)/2.5 (2°C)
	Capacity	at operation limit temperature	kW	2.4 (-15°C)/2.4 (-15°C)	1.6 (-25°C)/1.6 (-25°C)	2.9 (-15°C)/2.9 (-15°C)	2.3 (-25°C)/2.3 (-25°C)	6.0 (-15°C)/6.0 (-15°C)	3.3 (-25°C)/3.3 (-25°C)
	Back up heating	g capacity	kW	0.0 (-10°C)/0.0 (2°C)					

Туре						Inverter H	eat Pump		
		Indoor		MSZ-F	H25VE	MSZ-FH35VE		MSZ-F	H50VE
Model	Model Outdoor			MUZ-FH25VE	MUZ-FH25VEHZ	MUZ-FH35VE	MUZ-FH35VEHZ	MUZ-FH50VE	MUZ-FH50VEHZ
Sound po	wer levels	Inside	dB	58	58	58	58	60	60
on coolin	g mode	Outside	dB	60	60	61	61	64	64
Refrigera	nt					R410A G	NP 1975 ^(*1)		
	SEER				9.1	8.9	8.9	7.2	7.2
Cooling	Energy efficiency class			A+++	A+++	A+++	A+++	A++	A++
	Annual electricity consumption (*2) kWh/a		96	96	138	138	244	244	
	Design load kW			2.5	2.5	3.5	3.5	5.0	5.0
	SCOP			5.1/6.3	4.9/6.3	5.1/6.5	4.8/6.5	4.6/5.7	4.2/5.9
	Energy efficiend	cy class		A+++/A+++	A++/A+++	A+++/A+++	A++/A+++	A++/A+++	A+/A+++
Heating	Annual electricity	consumption (*2)	kWh/a	819/376	924/397	986/429	1173/471	1372/614	2006/787
(Average season/	Design load		kW	3.0 (-10°C)/1.7 (2°C)	3.2 (-10°C)/1.8 (2°C)	3.6 (-10°C)/2.0 (2°C)	4.0 (-10°C)/2.2 (2°C)	4.5 (-10°C)/2.5 (2°C)	6.0 (-10°C)/3.3 (2°C)
Warmer		at reference design temperature	kW	3.0 (-10°C)/1.7 (2°C)	3.2 (-10°C)/1.8 (2°C)	3.6 (-10°C)/2.0 (2°C)	4.0 (-10°C)/2.2 (2°C)	4.5 (-10°C)/2.5 (2°C)	6.0 (-10°C)/3.3 (2°C)
season)	Declared Capacity	at bivalent temperature	kW	3.0 (-10°C)/1.7 (2°C)	3.2 (-10°C)/1.8 (2°C)	3.6 (-10°C)/2.0 (2°C)	4.0 (-10°C)/2.2 (2°C)	4.5 (-10°C)/2.5 (2°C)	6.0 (-10°C)/3.3 (2°C)
	Capacity	at operation limit temperature	kW	2.5 (-15°C)/2.5 (-15°C)	1.7 (-25°C)/1.7 (-25°C)	3.2 (-15°C)/3.2 (-15°C)	2.6 (-25°C)/2.6 (-25°C)	5.2 (-15°C)/5.2 (-15°C)	3.8 (-25°C)/3.8 (-25°C)
	Back up heating	g capacity	kW	0.0 (-10°C)/0.0 (2°C)					

Туре						Inverter H	eat Pump		
Model		Indoor		MSZ-E	F25VE	MSZ-EF35VE		MSZ-EF42VE	MSZ-EF50VE
Model		Outdoor		MUZ-EF25VE	MUZ-EF25VEH	MUZ-EF35VE	MUZ-EF35VEH	MUZ-EF42VE	MUZ-EF50VE
	wer levels	Inside	dB	60	60	60	60	60	60
on coolin	g mode	Outside	dB	58	58	61	61	62	65
Refrigera	nt					R410A G	NP 1975 ^(*1)		
	SEER			8.5	8.5	8.5	8.5	7.7	7.2
Cooling	Energy efficience	cy class		A+++	A+++	A+++	A+++	A++	A++
			kWh/a	103	103	144	144	192	244
	Design load kW			2.5	2.5	3.5	3.5	4.2	5.0
	SCOP			4.7/6.0	4.6/6.0	4.6/5.7	4.5/5.7	4.6/6.0	4.5/5.8
	Energy efficiend	cy class		A++/A+++	A++/A+++	A++/A+++	A+/A+++	A++/A+++	A+/A+++
Heating	Annual electricity	consumption (*2)	kWh/a	716/304	730/304	882/396	910/396	1155/491	1309/557
(Average season/	Design load		kW	2.4 (-10°C)/1.3 (2°C)	2.4 (-10°C)/1.3 (2°C)	2.9 (-10°C)/1.6 (2°C)	2.9 (-10°C)/1.6 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.2 (-10°C)/2.3 (2°C)
Warmer		at reference design temperature	kW	2.4 (-10°C)/1.3 (2°C)	2.4 (-10°C)/1.3 (2°C)	2.9 (-10°C)/1.6 (2°C)	2.9 (-10°C)/1.6 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.2 (-10°C)/2.3 (2°C)
season)	Declared Capacity	at bivalent temperature	kW	2.4 (-10°C)/1.3 (2°C)	2.4 (-10°C)/1.3 (2°C)	2.9 (-10°C)/1.6 (2°C)	2.9 (-10°C)/1.6 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.2 (-10°C)/2.3 (2°C)
	Capacity	at operation limit temperature	kW	2.0 (-15°C)/2.0 (-15°C)	1.6 (-20°C)/1.6 (-20°C)	2.4 (-15°C)/2.4 (-15°C)	1.7 (-20°C)/1.7 (-20°C)	3.4 (-15°C)/3.4 (-15°C)	3.5 (-15°C)/3.5 (-15°C)
	Back up heating	g capacity	kW	0.0 (-10°C)/0.0 (2°C)					

Туре							Inverter H	leat Pump			
Model		Indoor		MSZ-SF25VE2		MSZ-SF35VE2		MSZ-SF42VE2		MSZ-S	F50VE2
wodei		Outdoor		MUZ-SF25VE	MUZ-SF25VEH	25VEH MUZ-SF35VE MUZ-SF35VEH MUZ-SF42VE MUZ-SF42VEH		MUZ-SF50VE	MUZ-SF50VEH		
Sound po	Sound power levels		dB	57	57	57	57	57	57	58	58
on coolin	g mode	Outside	dB	58	58	62	62	63	63	65	65
Refrigerant R410A GWP 1975 (1)											
	SEER			7.6	7.6	7.2	7.2	7.5	7.5	7.2	7.2
Cooling	Energy efficience			A++	A++	A++	A++	A++	A++	A++	A++
	Annual electricity consumption (*2) kWh		kWh/a	116	116	171	171	196	196	246	246
	Design load kW			2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0
	SCOP			4.4/5.4	4.3/5.4	4.4/5.4	4.3/5.4	4.4/5.8	4.3/5.8	4.4/5.7	4.3/5.7
	Energy efficience	y class		A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++
Heating	Annual electricity	consumption (*2)	kWh/a	764/337	790/337	923/418	948/417	1215/507	1242/507	1351/563	1380/563
(Average season/	Design load		kW	2.4 (-10°C)/1.3 (2°C)	2.4 (-10°C)/1.3 (2°C)	2.9 (-10°C)/1.6 (2°C)	2.9 (-10°C)/1.6 (2°C)	3.8 (-10°C)/2.1 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.2 (-10°C)/2.3 (2°C)	4.2 (-10°C)/2.3(2°C)
Warmer		at reference design temperature	kW	2.4 (-10°C)/1.3 (2°C)	2.4 (-10°C)/1.3 (2°C)	2.9 (-10°C)/1.6 (2°C)	2.9 (-10°C)/1.6 (2°C)	3.8 (-10°C)/2.1 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.2 (-10°C)/2.3 (2°C)	4.2 (-10°C)/2.3 (2°C)
season)	Declared Capacity	at bivalent temperature	kW	2.4 (-10°C)/1.3 (2°C)	2.4 (-10°C)/1.3 (2°C)	2.9 (-10°C)/1.6 (2°C)	2.9 (-10°C)/1.6 (2°C)	3.8 (-10°C)/2.1 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.2 (-10°C)/2.3 (2°C)	4.2 (-10°C)/2.3 (2°C)
	Сарасну	at operation limit temperature	kW	2.0 (-15°C)/2.0 (-15°C)	1.6 (-20°C)/1.6 (-20°C)	2.2 (-15°C)/2.2 (-15°C)	1.6 (-20°C)/1.6 (-20°C)	3.4 (-15°C)/3.4 (-15°C)	2.2 (-20°C)/2.5 (-20°C)	3.4 (-15°C)/3.4 (-15°C)	2.3 (-20°C)/2.3 (-20°C)
	Back up heating	capacity	kW	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)

Туре						lr	verter Heat Pump			
NA 1 - 1		Indoor		MSZ-GF60VE	MSZ-GF71VE	MSZ-HJ25VA	MSZ-HJ35VA	MSZ-HJ50VA	MSZ-HJ60VA	MSZ-HJ71VA
Model		Outdoor		MUZ-GF60VE	MUZ-GF71VE	MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA	MUZ-HJ60VA	MUZ-HJ71VA
Sound power levels		Inside	dB	65	65	57	60	60	65	65
on coolin	g mode	Outside	dB	65	65	63	64	64	65	66
Refrigera	nt			R410A G	WP 1975 ^(*1)			R410A GWP 1975	(*1)	
	SEER			6.8	6.8	5.1	5.1	6.0	6.0	5.6
Cooling	Energy efficience	y class		A++	A++	Α	A	A ⁺	A ⁺	A ⁺
0009	Annual electricity consumption (*2) kV			311	364	171	212	292	354	441
	Design load kW			6.1	7.1	2.5	3.1	5.0	6.1	7.1
	SCOP			4.3/5.3	4.2/5.4	3.8/4.3	3.8/4.3	4.2/5.5	4.1/5.1	4.0/4.9
	Energy efficience	y class		A+/A+++	A+/A+++	A/A+	A/A+	A+/A+++	A+/A+++	A+/A++
Heating	Annual electricity	consumption (*2)	kWh/a	1489/664	2204/963	698/356	885/426	1267/539	1544/674	1854/813
(Average season/	Design load		kW	4.6 (-10°C)/2.5 (2°C)	6.7 (-10°C)/3.7 (2°C)	1.9 (-10°C)/1.1 (2°C)	2.4 (-10°C)/1.3 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.6 (-10°C)/2.5 (2°C)	5.4 (-10°C)/2.9 (2°C)
Warmer		at reference design temperature	kW	4.6 (-10°C)/2.5 (2°C)	6.7 (-10°C)/3.7 (2°C)	1.9 (-10°C)/1.1 (2°C)	2.4 (-10°C)/1.3 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.6 (-10°C)/2.5 (2°C)	5.4 (-10°C)/2.9 (2°C)
season)	Declared Capacity	at bivalent temperature	kW	4.6 (-10°C)/2.5 (2°C)	6.7 (-10°C)/3.7 (2°C)	1.9 (-10°C)/1.1 (2°C)	2.4 (-10°C)/1.3 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.6 (-10°C)/2.5 (2°C)	5.4 (-10°C)/2.9 (2°C)
	Capacity	at operation limit temperature	kW	3.7 (-15°C)/3.7 (-15°C)	5.4 (-15°C)/5.4 (-15°C)	1.9 (-10°C)/1.9 (-10°C)	2.4 (-10°C)/2.4 (-10°C)	3.8 (-10°C)/3.8 (-10°C)	4.6 (-10°C)/4.6 (-10°C)	5.4 (-10°C)/5.4 (-10°C)
	Back up heating	Back up heating capacity kW			0.0 (-10°C)/0.0 (2°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.









SELECTION

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

STEP 1

SELECT INDOOR UNIT

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



Units without Remote Controller

SLZ-KA25VAQ3 SLZ-KA35VAQ3 SLZ-KA50VAQ3

*Requires SLP-2AAW grille.

Units with Wireless Remote Controller

SLZ-KA25VAL3

SLZ-KA35VAL3

SLZ-KA50VAL3



Units without Remote Controller

SEZ-KD25VAQ

SEZ-KD35VAQ

SEZ-KD50VAQ

SEZ-KD60VAQ SEZ-KD71VAQ

Units with Wireless Remote Controller

SEZ-KD25VAL

SEZ-KD35VAL

SEZ-KD50VAL

SEZ-KD60VAL

SEZ-KD71VAL

STEP 2

SELECT OUTDOOR UNIT

There is one outdoor unit for respective indoor units.



SUZ-KA25/35VA4



SUZ-KA50/60/71VA4

^{*}Requires PAR-31MAA or PAC-YT52CRA remote controller.

^{*}Requires SLP-2ALW grille.

^{*}Requires PAR-31MAA or PAC-YT52CRA remote controller.

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



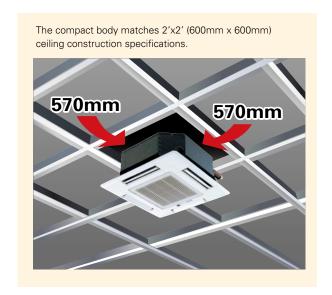
SLZ-KA25-50VAQ3/VAL3

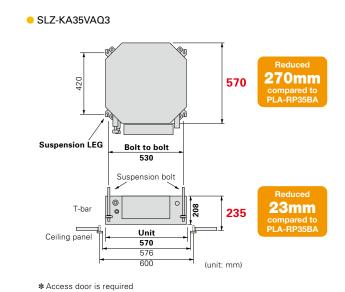
-way air outlets provide hroughout the entire room.

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

Compact Panel Size

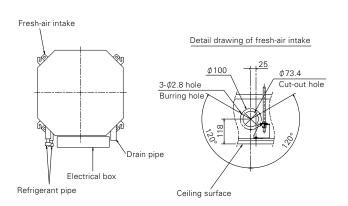
The attractive SLZ Series ceiling cassette units offer a slim 570mm width and a 4-way air outlet. The size and shape are a perfect match for ceilings made using 2'x2' construction, and the light 16.5kg package makes installation easy.



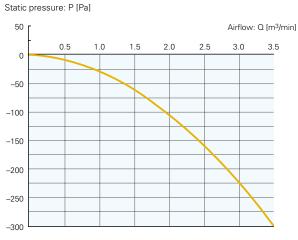


Fresh-air Intake

A duct hole is provided in the main body, making it possible to intake fresh air from outside.



Intake-air volume



Note: Intake-air volume should be 20% or less of overall air volume in order to prevent condensation.

SLZ-KA SERIES















Indoor Unit



SLZ-KA25/35/50VAQ3 (Requires Wired Remote Controller) SLZ-KA25/35/50VAL3 (Wireless Remote Controller is enclosed)

Panel

SLP-2AAW (for SLZ-KA VAQ) SLP-2ALW (for SLZ-KA VAL)

Outdoor Unit





SUZ-KA50VA4

Remote Controller







*optional (for SLZ-KA VAQ3) (for SLZ-KA VAQ3)







































Туре						Inverter I	leat Pump			
Indoor Ur	it			SLZ-KA25VAQ3	SLZ-KA25VAL3	SLZ-KA35VAQ3	SLZ-KA35VAL3	SLZ-KA50VAQ3	SLZ-KA50VAL3	
Outdoor l	Jnit			SUZ-KA	25VA4		\35VA4	SUZ-KA	A50VA4	
Refrigera	nt					R41	0A*1			
Power	Source			Outdoor power supply						
Supply	Outdoor (V/Phase/F	i z)				230 / Si	ngle / 50			
Cooling	Capacity	Rated	kW	2.6	1	3	.5	4.6		
·		Min - Max	kW	1.5 - 3	3.2	1.4	- 3.9	2.3 - 5.2		
	Total Input	Rated	kW	0.650		0.9	172	1.3	93	
	Design Load		kW	2.6	1	3	.5	4.	6	
	Annual Electricity Co	onsumption*2	kWh/a	166		2	11	28	32	
	SEER			5.5	i	5	.8	5.	7	
		Energy Efficiency Class		A		Į.	+	A·	+	
Heating	Capacity	Rated	kW	3.2			.0	5.	0	
(Average		Min - Max	kW	1.3 -	4.5	1.7	- 5.0	1.7 -	6.5	
Season)	Total Input	Rated	kW	0.82	0	1.0	087	1.5	40	
	Design Load		kW	2.2		2	.6	3.	6	
	Declared Capacity	at reference design temperature	kW	2.0 (–1	0°C)	2.3 (-	-10°C)	3.2 (-	10°C)	
		at bivalent temperature	kW	2.0 (-7	7°C)	2.3 (-7°C)	3.2 (-	-7°C)	
	at operation limit temperature			2.0 (-10°C)		2.3 (-10°C)		3.2 (-10°C)		
	Back Up Heating Ca	pacity	kW	0.2	!	C	.3	0.	4	
	Annual Electricity Consumption*2 kWh/a			709)	8	66	1228		
	SCOP			4.3		4	.2	4.1		
		Energy Efficiency Class		Α+		F	+	A·	+	
Operatin	g Current (max)		Α	7.4		8	.6	12	.7	
Indoor	Input	Rated	kW	0.05		0.05		0.05		
Unit	Operating Current (max)	Α	0.4		0.4		0.	4	
	Dimensions <panel></panel>	H × W × D	mm	235-570-570 <	20-650-650>	235-570-570	<20-650-650>	235-570-570 <	<20-650-650>	
	Weight <panel></panel>		kg	16 <	3>	16	<3>	16 <	<3>	
	Air Volume [Lo-Mid-l	Hi]	m³/min	8 - 9 -	11	8 - 9) - 11	8 - 9	- 11	
	Sound Level (SPL) [L	_o-Mid-Hi]	dB(A)	29 - 33			3 - 38	30 - 3		
	Sound Level (PWL)		dB(A)	57			7	5	8	
	Dimensions	$H \times W \times D$	mm	550 - 800			00 - 285	880 - 84		
Unit	Weight		kg	30			5	5-	4	
	Air Volume	Cooling	m³/min	32.			5.3	44		
		Heating	m³/min	34.			1.8	44		
	Sound Level (SPL)	Cooling	dB(A)	47			9	5:		
		Heating	dB(A)	48			0	5:		
	Sound Level (PWL)	Cooling	dB(A)	58			2	6		
	Operating Current (r	max)	Α	7.0			2	12		
	Breaker Size		Α	10			0	21		
Ext.	Diameter	Liquid / Gas	mm	6.35 /			/ 9.52	6.35 /		
Piping	Max. Length	Out-In	m	20		20		30		
	Max. Height	Out-In	m	12			2	31		
	ed Operating Range	Cooling	°C	-10 ~			- +46	-15 ~		
[Outdoor]		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 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 yearled for 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.

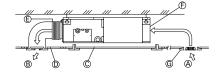




This concealed ceiling-mounted indoor unit series is compact, and fits easily into rooms with lowered ceilings. Highly reliable energy-saving performance makes it a best match choice for concealed unit installations.

Compact Ceiling-concealed Units

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



- Air inlet B Air outlet
- © Access door

 © Ceiling surface
- © Canvas duct
- Air filter © Inlet grille

Dimension Comparison



SEZ-KA35VA





SEZ-KD35VAQ



Increased Selection of Fan Speeds and Static Pressure Levels

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

	External Static Pressure
SEZ-KC25VA	5 Pa
SEZ-KA35-71VA	30/50 Pa
1	ļ
SEZ-KD25-71VA	5/15/35/50 Pa

Four Levels Available for All Models

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

	SPL (Low	Fan Mode)
	SEZ-KA	SEZ-KD
External Static Pressure	30 Pa	15 Pa
35	30dB	23dB
50	31dB	30dB
60	32dB	30dB
71	32dB	30dB

Maximum noise reduced by 7dB

Drain Pump (Optional)

The PAC-KE07DM-E drain pump is now available as an option. With the pump, a drain hose length of up to 550mm can be used, adding to increased installation possibilities.

SEZ-KD SERIES





















SEZ-KD25/35/50/60/71VAQ (Requires Wired Remote Controller)
SEZ-KD25/35/50/60/71VAL (Wireless Remote Controller is enclosed)

Outdoor Unit



SUZ-KA25/35VA4



SUZ-KA50/60/71VA4

Remote Controller



Enclosed in SEZ-KD25/35/50/60/71VAL



*optional (for SEZ-KD VAQ)



*optional (for SEZ-KD VAQ)























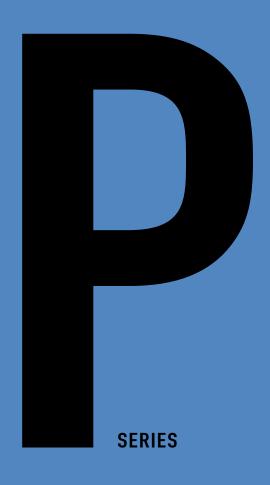






Туре						Inverter Heat Pump					
ndoor Ur	nit			SEZ-KD25VAQ/VAL	SEZ-KD35VAQ/VAL	SEZ-KD50VAQ/VAL	SEZ-KD60VAQ/VAL	SEZ-KD71VAQ/VAI			
Outdoor l	Unit			SUZ-KA25VA4	SUZ-KA35VA4	SUZ-KA50VA4	SUZ-KA60VA4	SUZ-KA71VA4			
Refrigera	nt					R410A*1					
ower	Source					Outdoor power supply					
Supply	Outdoor (V/Phase/H	lz)		230 / Single / 50							
Cooling	Capacity	Rated	kW	2.5	3.5	5.1	5.6	7.1			
	,	Min - Max	kW	1.5 - 3.2	1.4 - 3.9	2.3 - 5.6	2.3 - 6.3	2.8 - 8.3			
	Total Input	Rated	kW	0.730	1.010	1.580	1.740	2.210			
	Design Load	Indica	kW	2.5	3.5	5.1	5.6	7.1			
	Annual Electricity Co	nnsumption*2	kWh/a	168	219	313	376	477			
	SEER*3	onsumption .	KVVII/a	5.2	5.6	5.7	5.2	5.2			
	JEEN	Energy Efficiency Class		5.2 A	A+	A+	A A	3.2 A			
	Camanita	Rated	kW								
leating Average	Capacity	Min - Max	kW	2.9	4.2	6.4	7.4	8.1			
Season)		· · · · · · · · · · · · · · · · · · ·		1.3 - 4.5	1.7 - 5.0	1.7 - 7.2	2.5 - 8.0	2.6 - 10.4			
	Total Input	Rated	kW	0.803	1.130	1.800	2.200	2.268			
	Design Load	I. c	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)	4.8 (-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)	4.8 (-10°C)	5.3 (-10°C)			
	Back Up Heating Ca	•	kW	0.3	0.3	0.5	0.7	0.7			
	Annual Electricity Co	onsumption*2	kWh/a	808	979	1653	1878	2202			
	SCOP*3			3.8	4.0	3.9	4.1	3.8			
		Energy Efficiency Class		A	A ⁺	A	A ⁺	A			
peratin	g Current (max)		А	7.4	8.7	12.7	14.7	17.0			
ndoor	Input	Rated	kW	0.040	0.050	0.070	0.070	0.100			
Init	Operating Current (r	nax)	Α	0.4	0.5	0.7	0.7	0.9			
	Dimensions <panel></panel>	H × W × D	mm	200 - 790 - 700	200 - 990 - 700	200 - 990 - 700	200 - 1190 - 700	200 - 1190 - 700			
	Weight <panel></panel>	•	kg	18	21	23	27	27			
	Air Volume [Lo-Mid-h	fi]	m³/min	6-7-9	7 - 9 - 11	10 - 13 - 15	12 - 15 - 18	12 - 16 - 20			
	External Static Press	sure	Pa	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50			
	Sound Level (SPL) [L	.o-Mid-Hi]	dB(A)	22 - 25 - 29	23 - 28 - 33	29 - 33 - 36	29 - 33 - 37	29 - 34 - 39			
	Sound Level (PWL)		dB(A)	50	53	57	58	60			
Outdoor	Dimensions	$H \times W \times D$	mm	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330	880 - 840 - 330	880 - 840 - 330			
Jnit	Weight	1	kg	30	35	54	50	53			
	Air Volume	Cooling	m³/min	32.6	36.3	44.6	40.9	50.1			
		Heating	m³/min	34.7	34.8	44.6	49.2	48.2			
	Sound Level (SPL)	Cooling	dB(A)	47	49	52	55	55			
		Heating	dB(A)	48	50	52	55	55			
	Sound Level (PWL)	Cooling	dB(A)	58	62	65	65	69			
	Operating Current (r		A	7.0	8.2	12.0	14.0	16.1			
	Breaker Size	,	A	10	10	20	20	20			
xt.	Diameter Olze	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88			
ixi. Piping	Max. Length	Out-In	m	20	20	30	30	30			
. •	Max. Height	Out-In		12	12	30	30	30			
	ed Operating Range		m ℃			-15 ~ +46		-15 ~ +46			
Guarante Outdoorl		Cooling		-10 ~ +46	-10 ~ +46						
Outu001]		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 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 SEER/SCOP are measured at ESP 35Pa.





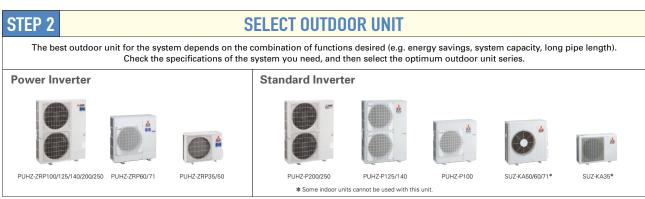




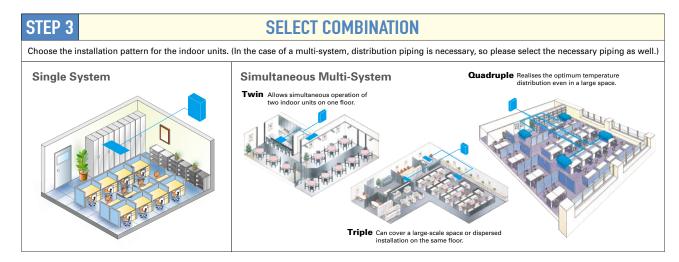
SELECTION

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.





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



Connectable Combinations for Inverter Units (PUHZ-ZRP / PUHZ-RP / PUHZ-P)

		Indoor Unit Capacity	
Outdoor 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	MSDT-111R-E	MSDF-1111R-E

Notes: 1) Indoor unit combinations with floor-standing (PS) units and other types are impossible.

2) The distribution pipe listed is required for simultaneous multi-systems.



Power Inverter SERIES

Our new Power Inverter Series is designed to achieve industry-leading seasonal energy-efficiency through use of new technologies and high-performance compressor. Installation is now even easier thanks to outdoor units with a side-flow configuration, a maximum piping length of 120m and pipe-replacement technologies.



Industry-leading Energy Efficiency in New Seasonal Ratings

Industry-leading energy efficiency has been achieved through optimisation of a newly designed compressor and use of the latest energy-saving technologies. The new Power Inverter Series, designed to realise outstanding seasonal energy-efficiency, achieves high energy-efficiency rankings of A⁺ or A⁺⁺ for both cooling and heating in most categories. Annual power consumption has been drastically reduced to realise savings in operating cost.

Annual electricity consumption comparison (PLA-ZRP/PUHZ-ZRP vs PLA-RP/PUHZ-RP)



 Results are based on our own simulations. Actual power consumption may vary depending on how and where the units are used.

Energy Rank (Cooling/Heating)

Series	35V	50V	60V	71V	100V	
4-way ceiling cassette	PLA-ZRP BA	A++/A++	A++/A++	A++/A+	A++/A+	A++/A++
	PLA-RP BA	A++/A+	A+/A+	A+/A	A++/A+	A++/A+
Wall-mounted	PKA-HAL/KAL	A ⁺ /A	A/A+	A++/A+	A++/A+	A++/A+
Ceiling-suspended	PCA-KAQ	A++/A+	A+/A+	A++/A+	A++/A+	A+/A
	PCA-HAQ	_	-	_	A+/A	-
Floor-standing	PSA-KA	-	-	-	A++/A+	A+/A+
Ceiling-concealed	PEAD-JAQ	A+/A+	A+/A+	A++/A+	A+/A	A+/A+

* The ErP Directive (Lot 10) applies to air conditioners of rated capacity up to 12kW.

ADVANCED ENERGY-SAVING TECHNOLOGIES

Highly efficient fan for outdoor unit

Fan opening of 550mm <100-250>

The opening for the fan in the outdoor unit is 550mm in diameter. By exchanging heat more efficiently, this will contribute to energy-saving and low noise level.



Improved fan <100-250>

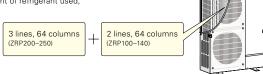
A newly designed fan has been adopted, increasing airflow capacity and reducing operation noise.



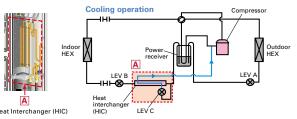
Highly efficient heat exchanger

High-density heat exchanger <100-250>

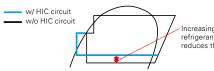
ZRP 100-250 use 7.94mm-diameter pipe. The high-density heat exchanger contributes to efficient heat exchange and reduces the amount of refrigerant used, which is better for the environment.



Heat Interchanger (HIC) Added <140>



A HIC circuit has been added to improve energy efficiency during cooling operation. Liquid refrigerant is rerouted, transformed into a gas state and injected back into the system to increase overall pressure of the refrigerant being sent to the compressor, thereby reducing the load on the compressor and raising efficiency.



Increasing the pressure of the refrigerant sent to the compressor reduces the compression load

Side-flow Outdoor Units

All operating capacities have been unified to the side-flow configuration. Even for locations requiring large capacities, the small footprint of these outdoor units enable them to be used anywhere.







PUHZ-ZRP60/71

PUHZ-ZRP100/125/140/

Twin Rotary Compressor (PUHZ-ZRP35/50/60/71)

Powerful yet high-efficiency rotary compressors that make use of Mitsubishi Electric technologies to achieve industry-leading energy efficiency under the new seasonal ratings. Annual power consumption has been significantly reduced compared to conventional units thanks to original Mitsubishi Electric technologies: "Poki-Poki Motors", "Heat Caulking Fixing Method, "Divisible Middle Plate" and "Flat Induction Pipe."

DC Scroll Compressor (PUHZ-ZRP100/125/140/200/250)

Our newly developed DC scroll compressor realises higher efficiency at partial load, which accounts for most of the operating time in both cooling and heating modes. The asymmetrically shaped scroll contributes to higher SEER and SCOP values and greatly reduces the annual power consumption. Compression efficiency is also improved through optimised compression and reduction of refrigerant pressure loss.

3-phase Power-supply Inverter (100-250)

Incorporation of a 3-phase power-supply realises a dramatic reduction in operating current. This special technology is equipped in outdoor units to ensure compliance with electromagnetic compatibility regulations in Europe.

Operating current comparison (for combinations using 4-way ceiling cassettes)

	Power Supply		PUHZ-ZRP100YKA2	PUHZ-ZRP125YKA2	PUHZ-ZRP140YKA2	
Ī	3-phase	Max.	8.7	10.3	12.1	
	3-pilase	Breaker size	16	16	16	
	Power Supply		PUHZ-ZRP100VKA2	PUHZ-ZRP125VKA2	PUHZ-ZRP140VKA2	
	1 phono	Max.	27.2	27.3	29.1	
	1-phase	Breaker size	32	32	40	

Long Pipe Length

The maximum piping length is 100m*, enabling wide-ranging layout possibilities for unit installation.

Model	Max. Pipe Length	Max. Height Difference
PUHZ-ZRP35/50	50m	30m
PUHZ-ZRP60/71	50m	30m
PUHZ-ZRP100/125/140	75m	30m
PUHZ-ZRP200/250	100m	30m

When the total control/power cable length exceeds 80m, separate power sources are required for the indoor and outdoor units. (An optional power-supply terminal kit is needed for indoor units with no power-supply terminal block.)
*PUHZ-ZRP200/250 only

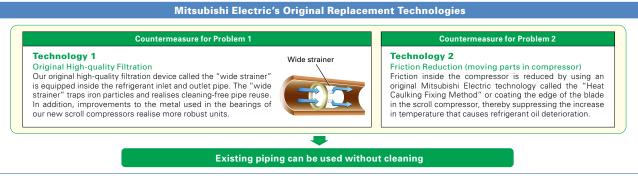
Cleaning-free Pipe Reuse Technology

Ability to use existing piping reduces pipe waste and replacement time

No Need to Clean at the Time of System Renewal*

Chloride residue builds up in existing pipes and becomes a source of trouble. In addition, the iron particles and slime produced as a result of compressor failure lead to problems. To counter this, various original Mitsubishi Electric technologies have been combined to enable the introduction of "cleaning-free pipe reuse."





*Cautions when using existing piping

- When removing an old air conditioning unit, please make sure to perform the pump-down process and recover the refrigerant and refrigerant oil.
- Check to ensure that the piping diameter and thickness match Mitsubishi Electric specifications
 Check to ensure that the flare is compatible with R410A.



Deluxe 4-way Cassette Line-up

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

■Line-up

Series Model	35	50	60	71	100	125	140
Deluxe 4-way Cassette (PLA-ZRP)	PLA-ZRP35BA	PLA-ZRP50BA	PLA-ZRP60BA	PLA-ZRP71BA	PLA-ZRP100BA	PLA-ZRP125BA	PLA-ZRP140BA
Standard 4-way Cassette (PLA-RP)	PLA-RP35BA	PLA-RP50BA	PLA-RP60BA	PLA-RP71BA	PLA-RP100BA	PLA-RP125BA	PLA-RP140BA2

■Key Technologies for Higher Energy Efficiency

New Heat Exchanger Design

Heat exchanger fin size and pitch have been changed, raising energy efficiency.

Pre-grooved Piping

High-performance pre-grooved piping is utilised, increasing the heat exchange area.





"Rank A++/A+" Energy Savings Achieved for Deluxe 4-way Cassette

Our new deluxe 4-way cassette indoor units combined with newly designed Power Inverter outdoor units (PUHZ-ZRP) achieve industry-leading seasonal efficiency for both cooling and heating: all rank A++ for cooling and A+ or higher for heating.



Automatic Grille Lowering Function (PLP-6BAJ)

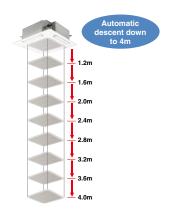
An automatic grille lowering function is available for easy filter maintenance. Special wired and wireless remote controllers can be used to lower the grille for maintenance.

The grille can be lowered a maximum of 4m from the ceiling in 8 steps, thus enabling easy cleaning of the air filter. Cleaning of the filter is an important factor for saving energy.





Wired Remote Controller

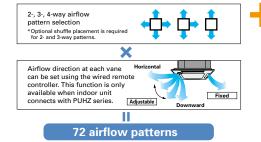


Optimum Airflow

Individual Vane Settings

Optimum airflow settings provide maximum comfort throughout the room.

In addition to the selection of variable airflow patterns (i.e., 2-, 3- or 4-way), this function allows the independent selection of vertical airflow levels for each vane, thereby maintaining a comfortable room environment with even temperature distribution

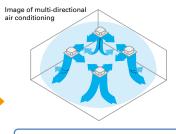


Wide Airflow

Wide-angle outlets distribute airflow to all corners of the room.

The outlets are larger than those of previous models and the shape has been improved for better wide-angle ventilation.





Individual Vane Wide Airflow Setting

The combination of individual vane setting, which enables the optimal outlet setting for each room layout, and the wide airflow function works to ensure even temperature distribution throughout each room. The result is uniformly comfortable air conditioning.

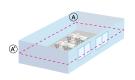
Wave Airflow – Thoroughly warming all corners of the room!

Wave Airflow Operation

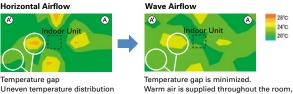
"Wave Airflow" is essentially the advanced control of the vanes directing the airflow from the unit. Blown-air is repeated dispersed from the unit in horizontal and downward directions at time-lagged intervals to provide uniform heating throughout the room.



Thermograph of Wave Control Effect





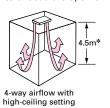


Temperature distribution comparison approximately 20min after turning on a PLA-RP71BA 4-Way ceiling cassette. The measurement point for comparison is a plane 1.2m above the floor.

* Wave Airflow is possible only when using the heating mode

Equipped with High- and 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.





* 100-140 class



4-way airflow with low-ceiling setting

■ Airflow Range

minimizing uneven temperature distribution.

Model	3	35-71 class		1	00-140 clas	ss
Airflow pattern	High-ceiling setting	Standard setting	Low-ceiling setting	High-ceiling setting	Standard setting	Low-ceiling setting
4-Way	3.5 m	2.4m	2.5 m	4.5 m	3.2m	2.7 m
3-Way	3.5 m	3.0m	2.7 m	4.5 m	3.6m	3.0 m
2-Way	3.5 m	3.3m	3.0 m	4.5 m	4.0m	3.3 m

Horizontal Airflow

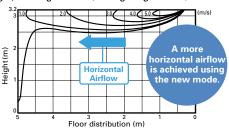
A "Horizontal Airflow" function has been added to reduce drafty-feeling distribution. Horizontal Airflow prevents cold drafts from striking the body directly, thereby keeping the body from becoming over-chilled.



[Airflow Distribution]

PLA-RP125BA

Flow angle, cooling at 20°C (ceiling height 3.2m)



Automatic Air-speed Adjustment

An automatic air-speed mode that adjusts airflow speed automatically is adopted to maintain comfortable room conditions at all times. 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.



DOES HAVING COLD FEET BOTHER YOU?

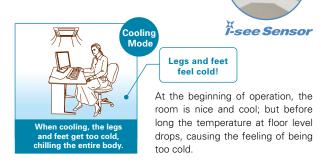
The "i-see Sensor" is the answer to your problems!



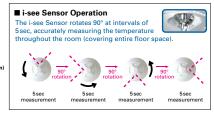
Even though the temperature on the remote controller is at a preset temperature, the temperature at floor level remains cold. As a result, there's no feeling of getting warmer.

"F-see Sensor" temperature-sensing technology improves energy efficiency and enhances room comfort

The "i-see Sensor" is an innovative Mitsubishi Electric technology that uses a radiation-based sensor to monitor temperature throughout an entire room. When connected to the air conditioner control panel, i-see Sensor works to maximize room comfort.



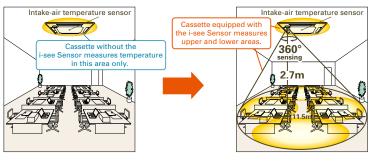




A comfortable room environment cannot be maintained by monitoring only the temperature at the ceiling.

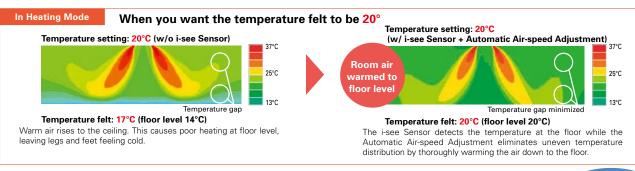
Without "i-see Sensor"

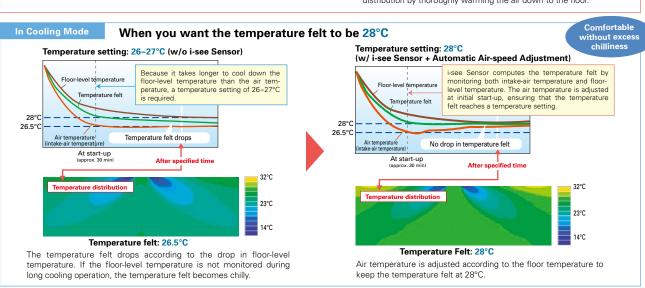
Only intake-air temperature at the ceiling was measured, tending to overlook uneven temperature distribution at floor level.



Equipped with 4-Way Ceiling "i-see Sensor"

Both the floor temperature and intake-air temperature are measured to provide operation that creates a comfortable room environment from ceiling to floor.







PLZ-ZRP/RP BA Indoor Unit Combinations Indoor unit combinations shown below are possible.

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

































Silent	
Silent C	





























Type								Inverter H	leat Pump				
Indoor U	nit	·		PLA-	PLA-	PLA-	PLA-			DI A 7D	DAOFRA	DI A 7D	D4 40D 4
				ZRP35BA	ZRP50BA	ZRP60BA	ZRP71BA	PLA-ZRI	P100BA	PLA-ZR	P125BA	PLA-ZR	P140BA
Outdoor	Unit			PUHZ- ZRP35VKA	PUHZ- ZRP50VKA	PUHZ- ZRP60VHA	PUHZ- ZRP71VHA	PUHZ- ZRP100VKA2	PUHZ- ZRP100YKA2	PUHZ- ZRP125VKA2	PUHZ- ZRP125YKA2	PUHZ- ZRP140VKA2	PUHZ- ZRP140YKA
Refrigera	int			2111 001101				R41					
Power	Source							Outdoor po					
Supply	Outdoor (V/Phase	/Hz)					VKA • VKA2 •	VHA:230 / Singl		00 / 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
cooming	Сарасну	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	0.79	1.43	1.78	1.77	2.16	2.16	3.87	3.87	4.37	4.37
	EER	Indica	1000	-	-	-	-	-	-	3.23	3.23	3.07	3.07
		EEL Rank			_	_		_	_	-	-	-	- 0.07
	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	kWh/a	185	272	350	370	484	493	685	695	770	781
	SEER			6.8	6.4	6.1	6.7	6.9	6.8	6.4	6.3	6.1*4	6.0*4
		Energy Efficiency Class		A++	A++	A++	A++	A++	A++	-	-	-	-
leating		Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
Average		Min - Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Season)	Total Input	Rated	kW	0.86	1.57	2.04	1.99	2.60	2.60	3.67	3.67	4.70	4.70
	COP			-	-	-	-	-	-	3.81	3.81	3.40	3.40
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	Design Load		kW	2.4	3.8	4.4	4.7	7.8	7.8	9.3	9.3	10.6	10.6
	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)	9.3 (-10°C)	9.3 (-10°C)	10.6 (-10°C)	10.6 (-10°
		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)	9.3 (-10°C)	9.3 (-10°C)	10.6 (-10°C)	10.6 (-10°
		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)	7.0 (-20°C)	7.0 (-20°C)	7.9 (-20°C)	7.9 (–20°C
	Back Up Heating C		kW	0	0	0	0	0	0	0	0	0	0
	Annual Electricity	Consumption*2	kWh/a	729	1162	1462	1476	2275	2275	2778	2778	3324	3324
	SCOP			4.6	4.6	4.2	4.5	4.8	4.8	4.7*4	4.7*4	4.5*4	4.5*4
		Energy Efficiency Class		A++	A++	A+	A+	A++	A++	-	-	-	-
	ng Current (max)	In	A	13.3	13.3	19.3	19.5	27.2	8.7	27.3	10.3	29.1	14.1
ndoor Jnit	Input	Rated	kW	0.04	0.04	0.04	0.05	0.08	0.08 0.74	0.09	0.09	0.12	0.12 1.07
Jilit	Operating Current Dimensions <panel></panel>		Α				0.45	0.74		0.80 0 - 840 <35 - 9		1.07	1.07
	Weight <panel></panel>	I H × W × D	mm kg	258 - 84	0 - 840 <35 - 95 23 <6>	23 <6>	25 <6>	26 <6>	298 - 84 26 <6>	0 - 840 <35 - 9 27 <6>	27 <6>	27 <6>	27 <6>
	Air Volume [Lo-Miz	Mil Hil	m³/min		12-14-16-18								
	Sound Level (SPL)		dB(A)					32-34-37-40					
	Sound Level (PWL		dB(A)	54	55	55	58	65	65	66	66	70	70
Outdoor	Dimensions	H × W × D	mm	630 - 80		943 - 950 -		03	05) - 330 (+40)	70	70
Jnit	Weight	I A V A B	kg	43	46	67	67	116	123	116	125	118	131
	Air Volume	Cooling	m³/min	45.0	45.0	55.0	55.0	110.0	110.0	120.0	120.0	120.0	120.0
		Heating	m³/min	45.0	45.0	55.0	55.0	110.0	110.0	120.0	120.0	120.0	120.0
	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)		dB(A)	65	65	67	67	69	69	70	70	70	70
	Operating Current		A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size		Α	16	16	25	25	32	16	32	16	40	16
Ext.	Diameter	Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.8
Piping	Max. Length	Out-In	m	50	50	50	50	75	75	75	75	75	75
	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
[Outdoor	1	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.

*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. These values are reference purpose only.































































			Optional	Optional	Optona	Optional	Орг	ional		Optional			
Туре								Inverter H	leat Pump				
Indoor Ur	nit			PLA- RP35BA	PLA- RP50BA	PLA- RP60BA	PLA- RP71BA	PLA-RF	P100BA	PLA-RF	P125BA	PLA-RP	140BA2
Outdoor	Unit			SUZ- KA35VA4	SUZ- KA50VA4	SUZ- KA60VA4	SUZ- KA71VA4	PUHZ- P100VHA4	PUHZ- P100YHA2	PUHZ- P125VHA3	PUHZ- P125YHA	PUHZ- P140VHA3	PUHZ- P140YHA
Refrigera	nt							R41	0A*1				
Power	Source								ower supply				
Supply	Outdoor (V/Phase	/Hz)				V.	44 · VHA3 · VHA	4:230 / Single /	50, YHA • YHA	2:400 / Three / !	50		
Cooling	Capacity	Rated	kW	3.6	5.5	6.1	7.1	9.4	9.4	12.3	12.3	13.6	13.6
Cooling	oupuon,	Min - Max	kW	1.4 - 3.9	2.3 - 5.6	2.3 - 6.3	2.8 - 8.1	4.9 - 11.2	4.9 - 11.2	5.5 - 14.0	5.5 - 14.0	5.5 - 15.0	5.5 - 15.0
	Total Input	Rated	kW	1.090	1.660	1.840	2.100	3.120	3.120	4.090	4.090	5.210	5.210
	EER			-	-	-	-	-	-	3.01	3.01	2.61	2.61
		EEL Rank		-	-	-	-	-	-	В	В	D	D
	Design Load	•	kW	3.6	5.5	6.1	7.1	9.4	9.4	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	210	321	356	429	628	628	-	-	-	-
	SEER			6.0	6.0	6.0	5.8	5.2	5.2	-	-	-	-
		Energy Efficiency Class		A ⁺	A ⁺	A ⁺	A ⁺	A	A	-	-	-	-
Heating	Capacity	Rated	kW	4.1	6.0	6.9	8.0	11.2	11.2	14.0	14.0	16.0	16.0
(Average		Min - Max	kW	1.7 - 5.0	1.7 - 7.2	2.5 - 8.0	2.6 - 10.2	4.5 - 12.5	4.5 - 12.5	5.0 - 16.0	5.0 - 16.0	5.0 - 18.0	5.0 - 18.0
Season)	Total Input	Rated	kW	1.040	1.750	1.970	2.247	3.280	3.280	4.110	4.110	4.980	4.980
	COP			-	-	-	-	-	-	3.41	3.41	3.21	3.21
		EEL Rank		-	-	-	-	-	-	В	В	С	С
	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)	6.3 (-10°C)	6.3 (-10°C)	-	-	-	-
		at bivalent temperature	kW	2.3 (-7°C)	3.8 (-7°C)	4.0 (-7°C)	5.1 (-7°C)	7.1 (–7°C)	7.1 (–7°C)	-	-	-	-
		at operation limit temperature	kW	2.3 (-10°C)	3.8 (-10°C)	4.0 (-10°C)	4.7 (-10°C)	5.0 (-15°C)	5.0 (-15°C)	-	-	-	-
	Back Up Heating C		kW	0.3	0.5	0.6	1.1	1.7	1.7	-	-	-	-
	Annual Electricity SCOP	Consumption*2	kWh/a	867	1503	1570	1913	2945	2945	-	-	-	-
		Energy Efficiency Class		4.2 A+	4.0 A ⁺	4.1 A ⁺	4.3 A+	3.8 A	3.8 A	-	-	-	-
Operation	g Current (max)	Ellergy Efficiency Class	I A	8.4	12.4	14.4	16.6	28.9	13.9	29.0	14.0	30.5	14.0
Indoor	Input	Rated	kW	0.03	0.05	0.05	0.07	0.14	0.14	0.15	0.15	0.15	0.15
Unit	Operating Current		A	0.03	0.36	0.36	0.51	0.14	0.14	1.00	1.00	1.00	1.00
	Dimensions <panel></panel>		mm			<35 - 950 - 950		0.04		0 - 840 <35 - 95		1.00	1.00
	Weight <panel></panel>	111111111111111111111111111111111111111	ka	22 <6>	22 <6>	23 <6>	23 <6>	25 <6>	25 <6>	25 <6>	25 <6>	27 <6>	27 <6>
	Air Volume [Lo-Miz	2-Mi1-Hil	m³/min			12-14-16-18				22-25-28-31	22-25-28-31	24-26-29-32	
	Sound Level (SPL)		dB(A)									36-39-42-44	
	Sound Level (PWL	.)	dB(A)	54	55	55	56	62	62	63	63	70	70
	Dimensions	H×W×D	mm	550 - 800 - 285		880 - 840 - 330		943 - 950 -	330 (+30)		1350 - 950	- 330 (+30)	
Unit	Weight		kg	35	54	50	53	75	77	99	101	99	101
	Air Volume	Cooling	m³/min	36.3	44.6	40.9	50.1	60.0	60.0	100.0	100.0	100.0	100.0
		Heating	m³/min	34.8	44.6	49.2	48.2	60.0	60.0	100.0	100.0	100.0	100.0
	Sound Level (SPL)		dB(A)	49	52	55	55	50	50	51	51	52	52
		Heating	dB(A)	50	52	55	55	54	54	55	55	56	56
	Sound Level (PWL)		dB(A)	62	65	65	69	70	70	71	71	73	73
	Operating Current	(max)	Α	8.2	12.0	14.0	16.1	28.0	13.0	28.0	13.0	29.5	13.0
	Breaker Size		Α	10	20	20	20	32	16	32	16	40	16
Ext.	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
Piping	Max. Length	Out-In	m	20	30	30	30	50	50	50	50	50	50
	Max. Height	Out-In	m	12	30	30	30	30	30	30	30	30	30
Guarante	ed Operating Range	I Cooling*3	°C	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46

Guaranteed Operating Range [Outdoor] Cooling* Heating
 °C
 -10 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +46
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21
 -15 ~ +21</t **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; 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/SCOP values are measured based on EN14825. These values are reference purpose only.

PLZ-RP SERIES















Ampere Rotation Back-up Control Control Commedian Commence Commenc















		Silett	Limit	Optional	Optional	Optional	Opt	ional	bibers .	Optional	DOWII	Diag	gnosis
Туре								Inverter H	eat Pump				
Indoor Ur	nit			PLA- RP35BA	PLA- RP50BA	PLA- RP60BA	PLA- RP71BA	PLA-RF	2100BA	PLA-RF	2125BA	PLA-RP	140BA2
Outdoor	Unit			PUHZ- ZRP35VKA	PUHZ- ZRP50VKA	PUHZ- ZRP60VHA	PUHZ- ZRP71VHA	PUHZ- ZRP100VKA2	PUHZ- ZRP100YKA2	PUHZ- ZRP125VKA2	PUHZ- ZRP125YKA2	PUHZ- ZRP140VKA2	PUHZ- ZRP140YKA2
Refrigera	nt			ZIII OOVICA				R41					
Power	Source							Outdoor po	wer supply				
Supply	Outdoor (V/Phase	/Hz)					VKA·VKA2·	VHA:230 / Sing	le / 50, YKA2:40	00 / Three / 50			
Cooling	Capacity	Rated	kW	3.5	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	0.88	1.43	1.90	1.87	2.21	2.21	3.99	3.99	4.40	4.40
	EER			_	-	-	_	-	-	3.13	3.13	3.05	3.05
		EEL Rank		_	_	-	_	_	-	-	-	-	-
	Design Load		kW	3.5	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
	Annual Electricity	Consumption*2	kWh/a	189	311	371	387	511	522	875	886	849	860
	SEER		,	6.5	5.6	5.7	6.4	6.5	6.4	5.0*4	4.9*4	5.5*4	5.5*4
		Energy Efficiency Class		A++	A+	A+	A++	A++	A++	_	_	_	-
Heating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
(Average		Min - Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Season)	Total Input	Rated	kW	0.96	1.82	2.17	2.21	2.95	2.95	3.91	3.91	4.76	4.76
	COP			-	-	-	-	-	-	3.58	3.58	3.36	3.36
	00.	EEL Rank		_	_	_	_	_	_	-	-	-	-
	Design Load		kW	2.3	3.8	4.4	4.7	7.8	7.8	9.3	9.3	10.6	10.6
		at reference design temperature	kW	2.3 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	9.3 (-10°C)	9.3 (-10°C)	10.6 (-10°C)	10.6 (-10°C)
	Dooial ou oupuoity	at bivalent temperature	kW	2.3 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	9.3 (-10°C)	9.3 (-10°C)	10.6 (-10°C)	10.6 (-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)	7.0 (-20°C)	7.0 (-20°C)	7.9 (-20°C)	7.9 (-20°C)
	Back Up Heating (kW	0	0	0	0	0	0	0	0	0	0
	Annual Electricity		kWh/a	750	1313	1576	1521	2511	2511	3304	3304	3746	3746
	SCOP	oonoumption		4.3	4.1	3.9	4.3	4.3	4.3	3.9*4	3.9*4	4.0*4	4.0*4
	000.	Energy Efficiency Class		A+	A+	A	A+	A+	A+	-	-	-	
Operation	g Current (max)		Α	13.2	13.4	19.4	19.5	27.4	8.9	27.5	10.5	29.1	14.1
Indoor	Input	Rated	kW	0.03	0.05	0.05	0.07	0.14	0.14	0.15	0.15	0.16	0.16
Unit	Operating Current		A	0.22	0.36	0.36	0.51	0.94	0.94	1.00	1.00	1.07	1.07
	Dimensions <panel></panel>		mm			<35 - 950 - 950	>			98 - 840 - 840	<35 - 950 - 950	>	
	Weight <panel></panel>		kg	22 <6>	22 <6>	23 <6>	23 <6>	25 <6>	25 <6>	25 <6>	25 <6>	27 <6>	27 <6>
	Air Volume [Lo-Mi	2-Mi1-Hil	m³/min							22-25-28-31			
	Sound Level (SPL		dB(A)	27-28-29-31	28-29-31-32	28-29-31-32	28-30-32-34	32-34-37-40	32-34-37-40	34-36-39-41	34-36-39-41	36-39-42-44	
	Sound Level (PWL		dB(A)	54	55	55	56	62	62	63	63	70	70
Outdoor	Dimensions	H×W×D	mm	630 - 80	9 - 300	943 - 950 -	- 330 (+30)			1338 - 1050	- 330 (+40)		
Unit	Weight	•	kg	43	46	67	67	116	123	116	125	118	131
	Air Volume	Cooling	m³/min	45.0	45.0	55.0	55.0	110.0	110.0	120.0	120.0	120.0	120.0
		Heating	m³/min	45.0	45.0	55.0	55.0	110.0	110.0	120.0	120.0	120.0	120.0
	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)		dB(A)	65	65	67	67	69	69	70	70	70	70
	Operating Current		A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size		А	16	16	25	25	32	16	32	16	40	16
Ext.	Diameter	Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	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
Guarante	ed Operating Range		°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
[Outdoor]		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21
*1 D-6		tes to climate change Refric										-	

Out-In
Out-In
Cooling*3
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 Optional air protection guide is required where ambient temperature is lower than -5°C. *4 SEER/SCOP values are measured based on EN14825. These values are reference purpose only.

































Self	Failure Recall

Туре						Inverter H	leat Pump		
ndoor U	nit			PLA-7R	P100BA	PI A-7R	P125BA	PLA-ZRF	P140BA
Outdoor	Unit			PUHZ-P100VHA4	PUHZ-P100YHA2	PUHZ-P125VHA3	PUHZ-P125YHA	PUHZ-P140VHA3	PUHZ-P140YH
efrigera				1 0112 1 100 11174	TOTIZTTOOTTIAZ		0A*1	1 01121 14011140	1 0112 1 1401117
ower	Source						ower supply		
upply	Outdoor (V/Phas	a/Hz)		230 / Single / 50	400 / Three / 50	230 / Single / 50	400 / Three / 50	230 / Single / 50	400 / Three / 5
ooling		Rated	l kW	9.4	9.4	12.3	12.3	13.6	13.6
ooiing	Сарасіту	Min - Max	kW	4.9 - 11.2	4.9 - 11.2	5.5 - 14.0	5.5 - 14.0	5.5 - 15.0	5.5 - 15.0
	Total Input	Rated	kW	3.082	3.082	4.020	4.020	5.171	5.171
	EER	Inateu	KVV	3.002	3.002	3.06	3.06	2.63	2.63
	EEN	EEL Rank			_	B	B	D 2.03	2.05 D
	Design Load	LLL IMIL	T kW	9.4	9.4	-	_	-	
	Annual Electricity	(Consumption*2	kWh/a	610	610	_	_	_	_
	SEER	Consumption	[KVVII/a	5.4	5.4	_	_	_	_
	OLLII	Energy Efficiency Class		A A	A A	_	_	_	_
ating	Capacity	Rated	l kW	11.2	11.2	14.0	14.0	16.0	16.0
verage	Capacity	Min - Max	kW	4.5 - 12.5	4.5 - 12.5	5.0 - 16.0	5.0 - 16.0	5.0 - 18.0	5.0 - 18.0
ason)		Rated	kW	3.137	3.137	3.989	3.989	4.938	4.938
	COP	Triatoa	1 1000	-	-	3.51	3.51	3.24	3.24
	00.	EEL Rank		_	_	B	В	C	C
	Design Load	LLL HUIN	T kW	8.0	8.0	_	_	_	
		at reference design temperature		6.3 (-10°C)	6.3 (-10°C)	_	_	_	-
		at bivalent temperature	kW	7.1 (–7°C)	7.1 (-7°C)	_	_	_	_
		at operation limit temperature		5.0 (-15°C)	5.0 (-15°C)	_	_	_	_
	Back Up Heating		kW	1.7	1.7	_	_	_	-
	Annual Electricity		kWh/a	2800	2800	_	_	_	-
	SCOP			4.0	4.0	_	_	_	-
		Energy Efficiency Class	,	A+	Α+	_	_	_	-
eratir	ng Current (max)	, ,	I A	28.7	13.7	28.8	13.8	30.6	14.1
loor	Input	Rated	kW	0.08	0.08	0.09	0.09	0.12	0.12
it	Operating Curren	it (max)	Α	0.74	0.74	0.80	0.80	1.07	1.07
	Dimensions <panel:< td=""><td>H × W × D</td><td>mm</td><td></td><td></td><td>298 - 840 - 840 -</td><td><35 - 950 - 950></td><td></td><td>•</td></panel:<>	H × W × D	mm			298 - 840 - 840 -	<35 - 950 - 950>		•
	Weight <panel></panel>	•	kg	26 <6>	26 <6>	27 <6>	27 <6>	27 <6>	27 <6>
	Air Volume [Lo-M		m³/min	20 - 23 - 26 - 30	20 - 23 - 26 - 30	22 - 25 - 28 - 31	22 - 25 - 28 - 31	24 - 26 - 29 - 32	24 - 26 - 29 - 32
	Sound Level (SPL		dB(A)	32 - 34 - 37 - 40	32 - 34 - 37 - 40	34 - 36 - 39 - 41	34 - 36 - 39 - 41	36 - 39 - 42 - 44	36 - 39 - 42 - 44
	Sound Level (PW		dB(A)	65	65	66	66	70	70
	Dimensions	$H \times W \times D$	mm		- 330 (+30)			- 330 (+30)	
nit	Weight		kg	75	77	99	101	99	101
	Air Volume	Cooling	m³/min	60.0	60.0	100.0	100.0	100.0	100.0
		Heating	m³/min	60.0	60.0	100.0	100.0	100.0	100.0
	Sound Level (SPL)		dB(A)	50	50	51	51	52	52
		Heating	dB(A)	54	54	55	55	56	56
	Sound Level (PWL		dB(A)	70	70	71	71	73	73
	Operating Curren	it (max)	A	28.0	13.0	28.0	13.0	29.5	13.0
	Breaker Size		А	32	16	32	16	40	16
t.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
ping	Max. Length	Out-In	m	50	50	50	50	50	50
	Max. Height	Out-In	m	30	30	30	30	30	30
	ed Operating Range		°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
Outdoor]	Heating	°C	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21

[[]Outdoor] Heating °C | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +



PKA-RP35/50HAL PKA-RP60/71/100KAL

The compact, wall-mounted indoor units offer the convenience of simple installation, and a large product line-up (RP35-RP100 models) ensures a best-match solution. Designed for highly efficient energy savings, the PKA Series is the answer to your air conditioning needs.

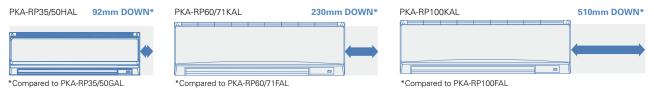
Flat Panel & Pure White Finish

A flat panel layout has been adopted for all models. Pursuing a design that harmonizes with virtually any interior, the unit colour has been changed from white to pure white.



Compact Indoor Units

Indoor unit width has been reduced by as much as 510mm (RP100). Units take up much less space, greatly increasing installation possibilities.



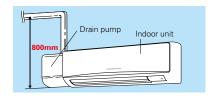
ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

Highly efficient indoor unit heat exchangers and and newly designed power inverters (PUHZ-ZRP) 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.



Drain Pump Option Available with All Models

Installation of the drain pump enables a drain outlet as high as 800mm above the base of the indoor unit. Drain water can be discharged easily even if the surface where the wall-mounted unit does not have direct access outside, increasing the degree of freedom for installation.



Multi-function Wired Remote Controller

In addition to using the wireless remote controller that comes as standard equipment, PAR-31MAA and PAC-YT52CRA wired remote controllers can be used as well

*Connection to PAR-31MAA/PAC-YT52CRA requires PAC-SH29TC-E (optional).

Main Functions

- Night Setback
- Energy- saving ModeMulti Language
- Weekly Timer
- Refrigerant Leak Check







(*) PAC-SH29TC-E is required (optional)

PKZ-RP HA/KA Indoor Unit Combinations Indoor unit combinations shown below are possible.

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















































Гуре	<u> </u>						leat Pump		
idoor U				PKA-RP35HAL	PKA-RP50HAL	PKA-RP60KAL	PKA-RP71KAL	PKA-RP	
utdoor				PUHZ-ZRP35VKA	PUHZ-ZRP50VKA	PUHZ-ZRP60VHA	PUHZ-ZRP71VHA	PUHZ-ZRP100VKA2	PUHZ-ZRP100YK
efriger	ant					R41	0A*1		
ower	Source						ower supply		
upply	Outdoor (V/Phase	e/Hz)				VKA · VHA:230 / Single /	50, YKA:400 / Three / 50		
oolina	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	0.94	1.41	1.60	1.80	2.40	2.40
	EER				=	_	_		-
	I	EEL Rank			_	_	_	_	_
	Design Load		kW	3.6	4.6	6.1	7.1	9.5	9.5
	Annual Electricity	Consumption*2	kWh/a	221	304	336	381	539	550
	SEER	oonoump tron	1	5.7	5.3	6.3	6.5	6.1	6.0
	022	Energy Efficiency Class		A+	A	A++	A++	A++	A+
ating	Capacity	Rated	kW	4.1	5.0	7.0	8.0	11.2	11.2
verage		Min - Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0
ason)		Rated	kW	1.07	1.50	1.96	2.19	3.04	3.04
	COP	Hated	1000	-	-	-	-	-	-
	001	EEL Rank		_	_	_	_	_	
	Design Load	EEE NONK	kW	2.4	3.3	4.4	4.7	7.8	7.8
		at reference design temperature		2.4 (-10°C)	3.3 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)
	Deciared Supucity	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)
	Back Up Heating		kW	0	0	0	0.5 (20 0)	0	0.0 (20 0)
	Annual Electricity		kWh/a	847	1160	1473	1532	2608	2608
	SCOP	Consumption	IVANIA	3.9	4.0	4.2	4.3	4.1	4.1
	3001	Energy Efficiency Class		A A	Δ+	A+	A+	A+	Α+
nerati	ng Current (max)	Energy Emiciency oldss	I A	13.4	13.4	19.4	19.4	27.1	8.6
door	Input	Rated	kW	0.04	0.04	0.06	0.06	0.08	0.08
nit	Operating Current		A	0.4	0.4	0.43	0.43	0.57	0.57
	Dimensions <panel></panel>		mm	295 - 89		0.40	365 - 11		0.07
	Weight <panel></panel>	111 × ** × ×	kg	13	13	21	21	21	21
	Air Volume [Lo-Mi	d-Hil	m³/min	9 - 10.5 - 12	9 - 10.5 - 12	18 - 20 - 22	18 - 20 - 22	20 - 23 - 26	20 - 23 - 26
	Sound Level (SPL		dB(A)	36 - 40 - 43	36 - 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
ıtdoo	Dimensions	H × W × D	mm	630 - 80			- 330 (+30)		- 330 (+40)
nit	Weight		kg	43	46	67	67	116	123
	Air Volume	Cooling	m³/min	45.0	45.0	55.0	55.0	110.0	110.0
	All Volume	Heating	m³/min	45.0	45.0	55.0	55.0	110.0	110.0
	Sound Level (SPL)		dB(A)	44	44	47	47	49	49
	Sound Level (SFL)	Heating	dB(A)	46	46	48	48	51	51
	Sound Level (PWL)		dB(A)	65	65	67	67	69	69
	Operating Current		A	13.0	13.0	19.0	19.0	26.5	8.0
	Breaker Size	. ()	Â	16	16	25	25	32	16
t.	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
i. oing	Max. Length	Out-In	m	50	50	50	50	75	75
P9	Max. Height	Out-In	m	30	30	30	30	30	30
uarant	eed Operating Range		°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
uaranii Outdoo		Heating	°C	-15 ~ +40 -11 ~ +21	-15 ~ +40 -11 ~ +21	-15 ~ +40 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-20 ~ +21
	,	i i icauliu		-11 ~ +21					

refrigerant teachage Containages and a straiger and training and a straiger and a straiger and training and a straiger and a st



















































































Type				Inverter H	eat Pump
Indoor U	nit			PKA-RP	100KAL
Outdoor	Unit			PUHZ-P100VHA4	PUHZ-P100YHA2
Refrigera	nt			R41	0A*1
	Source			Outdoor po	wer supply
Supply	Outdoor (V/Phase	/Hz)		230 / Single / 50	400 / Three / 50
Cooling	Capacity	Rated	kW	9.4	9.4
	' '	Min - Max	kW	4.9 - 11.2	4.9 - 11.2
	Total Input	Rated	kW	3.120	3.120
	Design Load		kW	9.4	9.4
	Annual Electricity	Consumption*2	kWh/a	686	686
	SEER			4.8	4.8
		Energy Efficiency Class		В	В
		Rated	kW	11.2	11.2
(Average		Min - Max	kW	4.5 - 12.5	4.5 - 12.5
Season)		Rated	kW	3.490	3.490
	Design Load		kW	7.0	7.0
		at reference design temperature	kW	5.6 (-10°C)	5.6 (-10°C)
		at bivalent temperature	kW	6.2 (-7°C)	6.2 (-7°C)
		at operation limit temperature	kW	4.5 (–15°C)	4.5 (–15°C)
	Back Up Heating C		kW	1.4 2579	1.4 2579
	Annual Electricity SCOP	Consumption**	kWh/a	3.8	3.8
		Energy Efficiency Class		A	3.8 A
Operation	g Current (max)	Lifergy Efficiency Class	Α	28.6	13.6
Indoor	Input	Rated	kW	0.08	0.08
Unit	Operating Current		A	0.57	0.57
	Dimensions <panel></panel>	H × W × D	mm		70 - 295
	Weight <panel></panel>		kg	21	21
	Air Volume [Lo-Mid	d-Hil	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
		$H \times W \times D$	mm	943 - 950	- 330 (+30)
Unit	Weight		kg	75	77
	Air Volume	Cooling	m³/min	60.0	60.0
			m³/min	60.0	60.0
	Sound Level (SPL)		dB(A)	50	50
		Heating	dB(A)	54	54
	Sound Level (PWL)		dB(A)	70	70
	Operating Current	(max)	A	28.0	13.0
	Breaker Size	11: :1/0:	Α	32	16
Ext. Piping		Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88
riping		Out-In Out-In	m	50 30	50 30
Guerente	Max. Height ed Operating Range		°C	30 _15 ~ +46	30 15 ~ +46
Outdoor	eu operating nange	Cooling*3 Heating	°C	−15 ~ +46 −15 ~ +21	-15 ~ +46 -15 ~ +21
LOGITOOL	1	neating	٠.	-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.

*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. These values are reference purpose only.



PCA-RP35/50/60/71/100/125/140KAQ

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.

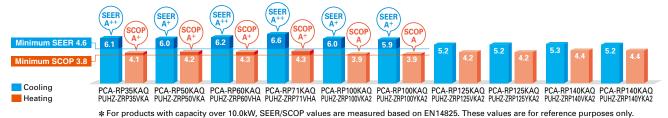
Stylish Indoor Unit Design

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.



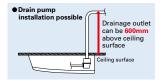
ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

A direct-current (DC) fan motor is isntalled in the indoor unit, increasing the seasonal energy efficiency of newly designed Power Inverter series (PUHZ-ZRP) 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.



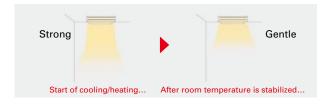
Optional Drain Pump for Full-capacity Models

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



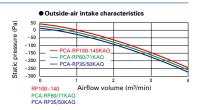
Equipped with Automatic Air-speed Adjustment

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 guickly heat/cool the room. When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable comfortable heating/cooling operation.



Outside-air Intake

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



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				



PCA-RP71HAQ

as steel body and built-in oviding a comfortable air a cooking.

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

Tough on Oily Smoke

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

High-performance Oil Mist Filter

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

Oil Mist Filter Cleaning

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



Oil mist filter





Pull the handle to easily slide

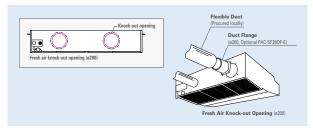
Easy Maintenance – Even for Cleaning the Fan

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



Fresh Outside-air Intake (Option)

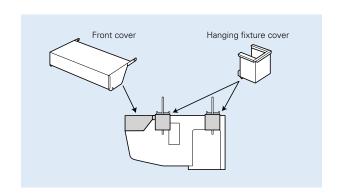
There is a knock-out opening on the rear panel of the unit that can be used to bring fresh air into the unit. This helps to improve ventilation and make the kitchen comfortable.

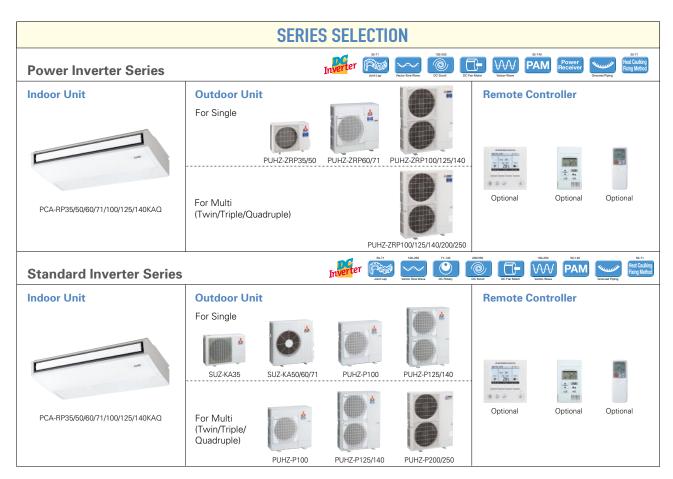


Notes: 1) A fresh-air duct flange is required (sold separately) 2) Intake air is not 100% fresh (outside) air.

Cosmetic Front and Hanging Fixture Covers (Option)

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





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

	Indoor Unit Combination		Outdoor Unit Capacity																		
Indoor			For Single										For Twin						For Triple		
			50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Power Inverter (PUHZ-ZRP)		50x1	60x1	71x1	100x1	125x1	140x1	-	-	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe		-	-	-	-	-	-	-	-	-	MSE	D-501	R-E	MSDD-	50WR-E	MSI	DT-111	R-E	MSDF-1	111R-E
Standa	Standard Inverter (PUHZ-P&SUZ)		50x1	60x1	71x1	100x1	125x1	140x1	-	-	-	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
Distribution Pipe		-	_	-	_	_	-	_	-	-	-	MSI	D-50	ΓR-E	MSDD-	50WR-E	MSI	DT-111	R-E	MSDF-1	111R-E



PCZ-RP HA Indoor Unit Combinations Indoor unit combinations shown below are possible.

				Outdoor Unit Capacity																	
Indoor Unit Combination					Fo	or Sing	gle				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	Power Inverter (PUHZ-ZRP)		-	-	71x1	-	-	-	-	-	-	-	-	71x2	-	-	-	-	71x3	-	_
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	-	-	MSDD-50TR-E	-	-	-	-	MSDT-111R-E	-	
Standard Inverter (PUHZ-P)		-	-	-	-	-	-	-	-	-	-	-	-	71x2	-	-	-	-	71x3	-	_
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	-	-	MSDD-50TR-E	-	-	-	-	MSDT-111R-E	-	_

















































Failure	
 railuie	

	www.maroverds.combile.com		Optional	Optional	Optional	Optional		\sim	Optional	Optional			
Туре								Inverter H	eat Pump				
ndoor U	nit			PCA- RP35KAQ	PCA- RP50KAQ	PCA- RP60KAQ	PCA- RP71KAQ	PCA-RP	100KAQ	PCA-RP	125KAQ	PCA-RP	140KAQ
Outdoor	Unit			PUHZ- ZRP35VKA	PUHZ- ZRP50VKA	PUHZ- ZRP60VHA	PUHZ- ZRP71VHA	PUHZ- ZRP100VKA2	PUHZ- ZRP100YKA2	PUHZ- ZRP125VKA2	PUHZ- ZRP125YKA2	PUHZ- ZRP140VKA2	PUHZ- ZRP140YKA
efrigera	ant							R41	0A*1				
ower	Source							Outdoor po	wer supply				
upply	Outdoor (V/Phase	/Hz)					VKA • VH	A:230 / Single /	50, YKA:400 / T	Three / 50			
ooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
g		Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.
	Total Input	Rated	kW	0.86	1.34	1.66	1.82	2.42	2.42	3.98	3.98	3.95	3.95
	EER	1		-	-	-	-	_	-	3.14	3.14	3.39	3.39
		EEL Rank		_	_	-	-	_	-	-	-		
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
	Annual Electricity	Consumption*2	kWh/a	206	292	347	375	553	560	834	844	882	893
	SEER	oonoumption		6.1	6.0	6.2	6.6	6.0	5.9	5.2*4	5.2*4	5.3*4	5.2*4
		Energy Efficiency Class		A++	A+	A++	A++	A+	A+	_	-	-	-
leating		Rated	kW	4.1	5.5	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
Average		Min - Max	kW	1.6-5.2	2.5 - 6.6	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
eason)	Total Input	Rated	kW	1.02	1.45	1.93	2.20	3.04	3.04	3.80	3.80	4.57	4.57
	COP			_	-	-	-	-	-	3.68	3.68	3.50	3.50
	EEL Rank			_	_	-	_	_	-	-	-	-	-
	Design Load		kW	2.4	3.8	4.4	4.7	7.8	7.8	9.3	9.3	10.6	10.6
		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)	9.3 (-10°C)	9.3 (-10°C)	10.6 (-10°C)	10.6 (-10°
	Dooial ou oupuoity	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)	9.3 (-10°C)	9.3 (-10°C)	10.6 (-10°C)	10.6 (-10°
		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)	7.0 (-20°C)	7.0 (-20°C)	7.9 (–20°C)	7.9 (-20°C
	Back Up Heating C		kW	0	0	0	0	0	0	0	0	0	0
			kWh/a	815	1257	1458	1519	2837	2837	3097	3097	3366	3366
	SCOP			4.1	4.2	4.3	4.3	3.9	3.9	4.2*4	4.2*4	4.4*4	4.4*4
		Energy Efficiency Class		A+	A+	A+	A ⁺	A	Α	_	-	_	_
peratir	ng Current (max)	, , , , , , , , , , , , , , , , , , , ,	ΙA	13.3	13.4	19.4	19.4	27.2	8.7	27.3	10.3	28.9	13.9
ndoor	Input	Rated	kW	0.04	0.05	0.06	0.06	0.09	0.09	0.11	0.11	0.14	0.14
Init	Operating Current	(max)	Α	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76	0.90	0.90
	Dimensions <panel></panel>	H × W × D	mm	230 - 96	0 - 680	230 - 12	80 - 680		•	230 - 16	00 - 680		
	Weight <panel></panel>		kg	24	25	32	32	36	36	38	38	39	39
	Air Volume [Lo-Mi2	2-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-
	Sound Level (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-
	Sound Level (PWL		dB(A)	60	60	60	62	63	63	65	65	68	68
	Dimensions	$H \times W \times D$	mm	630 - 80	9 - 300	943 - 950				1338 - 1050	330 (+40)		
Init	Weight		kg	43	46	67	67	116	123	116	125	118	131
	Air Volume	Cooling	m³/min	45.0	45.0	55.0	55.0	110.0	110.0	120.0	120.0	120.0	120.0
		Heating	m³/min	45.0	45.0	55.0	55.0	110.0	110.0	120.0	120.0	120.0	120.0
	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)		dB(A)	65	65	67	67	69	69	70	70	70	70
	Operating Current	(max)	Α	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size	-	Α	16	16	25	25	32	16	32	16	40	16
xt.	Diameter	Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.8
iping	Max. Length	Out-In	m	50	50	50	50	75	75	75	75	75	75
	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Guarante Outdoor	ed Operating Range	Cooling*3	°C	-15 ~ +46 -11 ~ +21	-15 ~ +46 -11 ~ +21	-15 ~ +46 -20 ~ +21	-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 ligher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of 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/SCOP values are measured based on EN14825. These values are reference purpose only.





























































Indoor Unit Outdoor Unit Refrigerant				Inverter Heat Pump PCA-RP35KAQ PCA-RP50KAQ PCA-RP60KAQ PCA-RP71KAQ PCA-RP100KAQ PCA-RP125KAQ PCA-RP140KAQ													
				PCA-RP35KAQ	PCA-RP50KAQ	PCA-RP60KAQ	PCA-RP71KAQ	PCA-RP	100KAQ	PCA-RP	125KAQ	PCA-RP	140KAQ				
Refrigerant	t			SUZ-KA35VA4	SUZ-KA50VA4	SUZ-KA60VA4	SUZ-KA71VA4	PUHZ-P100VHA4	PUHZ-P100YHA2	PUHZ-P125VHA3	PUHZ-P125YHA	PUHZ-P140VHA3	PUHZ-P140YHA				
								R41	0A*1								
	ource							Outdoor po	wer supply								
Supply Out	utdoor (V/Phase/	Hz)				VA	44 · VHA3 · VHA	4:230 / Single /	50, YHA • YHA:	2:400 / Three / !	50						
Cooling Car	pacity	Rated	kW	3.6	5.0	5.7	7.1	9.4	9.4	12.3	12.3	13.6	13.6				
		Min - Max	kW	1.4 - 3.9	2.3 - 5.6	2.3 - 6.3	2.8 - 8.1	4.9 - 11.2	4.9 - 11.2	5.5 - 14.0	5.5 - 14.0	5.5 - 15.0	5.5 - 15.0				
Tot	tal Input	Rated	kW	1.050	1.550	1.720	2.060	3.130	3.130	4.090	4.090	4.840	4.840				
EEF	R			-	-	-	-	-	-	3.01	3.01	2.81	2.81				
		EEL Rank		-	-	-	_	-	-	В	В	С	С				
	esign Load		kW	3.6	5.0	5.7	7.1	9.4	9.4	-	-	-	-				
Anı	nual Electricity (Consumption*2	kWh/a	214	307	332	414	645	645	-	_	_	-				
SEI	SEER			5.9	5.7	6.0	6.0	5.1	5.1	ı	-	-	-				
		Energy Efficiency Class		A ⁺	A ⁺	A ⁺	A ⁺	Α	А	-	-	-	-				
Heating Cap		Rated	kW	4.1	5.5	6.9	7.9	11.2	11.2	14.0	14.0	16.0	16.0				
(Average		Min - Max	kW	1.7 - 5.0	1.7 - 6.6	2.5 - 8.0	2.6 - 10.2	4.5 - 12.5	4.5 - 12.5	5.0 - 16.0	5.0 - 16.0	5.0 - 18.0	5.0 - 18.0				
		Rated	kW	1.130	1.520	1.910	2.180	3.280	3.280	4.120	4.120	4.690	4.690				
co				-	_	-	-	_	-	3.40	3.40	3.41	3.41				
		EEL Rank		-		-	-	-	-	С	С	В	В				
Des	esign Load		kW	2.6	4.0	4.8	5.8	8.0	8.0	_	-	-	-				
Dec		at reference design temperature	kW	2.3 (-10°C)	3.6 (-10°C)	4.3 (-10°C)	5.2 (-10°C)	6.3 (-10°C)	6.3 (-10°C)	-	-	-	-				
		at bivalent temperature	kW	2.3 (-7°C)	3.6 (-7°C)	4.3 (-7°C)	5.2 (-7°C)	7.1 (-7°C)	7.1 (-7°C)	_	-	-	-				
_		at operation limit temperature	kW	2.3 (-10°C) 0.3	3.6 (-10°C)	4.3 (-10°C)	5.2 (-10°C)	5.0 (-15°C)	5.0 (-15°C)	-	-	-	-				
	ck Up Heating C		kWh/a	887	0.4 1398	0.5 1678	0.6 2028	1.7 2945	1.7 2945	_	-	-	-				
	nnual Electricity (consumption **	KVVII/a	4.1	4.0	4.0	4.0	3.8	3.8	-	-	-	_				
500		Energy Efficiency Class		4.1 A ⁺	4.0 A ⁺	4.0 A ⁺	4.0 A ⁺	3.8 A	3.8 A		_	_					
Operating Co		Ellergy Elliciency Class	Α	8.5	12.4	14.4	16.5	28.7	13.7	28.8	13.8	30.4	13.9				
Indoor Inp		Rated	kW	0.04	0.05	0.06	0.06	0.09	0.09	0.11	0.11	0.14	0.14				
	perating Current		A	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76	0.90	0.90				
Op.	mensions <panel></panel>		mm	230-96		230-12		0.00	0.00		00-680	0.50	0.50				
	eight <panel></panel>		ka	24	25	32	32	36	36	38	38	39	39				
	r Volume [Lo-Mi2	-Mi1-Hil	m³/min	10-11-12-14	10-11-13-15	15-16-17-19	16-17-18-20		22-24-26-28								
	ound Level (SPL)		dB(A)		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				
Sou	ound Level (PWL)		dB(A)	60	60	60	62	63	63	65	65	68	68				
Outdoor Din	mensions	$H \times W \times D$	mm	550 - 800 - 285		880 - 840 - 330		943 - 950 -	330 (+30)		1350 - 950	- 330 (+30)					
Unit We	eight		kg	35	54	50	53	75	77	99	101	99	101				
Air	r Volume	Cooling	m³/min	36.3	44.6	40.9	50.1	60.0	60.0	100.0	100.0	100.0	100.0				
		Heating	m³/min	34.8	44.6	49.2	48.2	60.0	60.0	100.0	100.0	100.0	100.0				
Sou	ound Level (SPL)		dB(A)	49	52	55	55	50	50	51	51	52	52				
		Heating	dB(A)	50	52	55	55	54	54	55	55	56	56				
	ound Level (PWL)		dB(A)	62	65	65	69	70	70	71	71	73	73				
	Operating Current (max) A			8.2	12.0	14.0	16.1	28.0	13.0	28.0	13.0	29.5	13.0				
	eaker Size		Α	10	20	20	20	32	16	32	16	40	16				
		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				
	ax. Length	Out-In	m	20	30	30	30	50	50	50	50	50	50				
	ax. Height	Out-In	m	12	30	30	30	30	30	30	30	30	30				
Guaranteed O [Outdoor]		Cooling	°C	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46* ³	-15 ~ +46* ³	-15 ~ +46* ³	-15 ~ +46*3	-15 ~ +46* ³	-15 ~ +46* ³				
		Heating	°C	-10 ~ +24	–10 ~ +24	-10 ~ +24	-10 ~ +24	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15~21	-15 ~ +21	-15 ~ +21				

Heating **1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with ligher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of 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/SCOP values are measured based on EN14825. These values are reference purpose only.









































	www.curesent-certification	Optional										
Туре				Inverter Heat Pump								
ndoor Ui	nit			PCA-RP71HAQ								
utdoor	Unit			PUHZ-ZRP71VHA								
efrigera	nt			R410A*1								
ower	Source			Outdoor power supply								
upply	Outdoor (V/Phase	/Hz)		230 / Single / 50								
ooling	Capacity	Rated	kW	7.1								
g		Min - Max	kW	3.3 - 8.1								
	Total Input	Rated	kW	2.17								
	EER			-								
		EEL Rank		-								
	Design Load		kW	7.1								
	Annual Electricity	Consumption*2	kWh/a	447								
	SEER			5.6								
		Energy Efficiency Class		A+								
eating	Capacity	Rated	kW	7.6								
Average		Min - Max	kW	3.5 - 10.2								
eason)	Total Input	Rated	kW	2.35								
	COP			-								
		EEL Rank		-								
	Design Load		kW	4.7								
		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								
	Annual Electricity	Consumption*2	kWh/a	1751								
	SCOP			3.8								
		Energy Efficiency Class		A								
	g Current (max)		Α	19.4								
	Input	Rated	kW	0.09								
nit	Operating Current	(max)	А	0.43								
	Dimensions <panel></panel>	H×W×D	mm	280 - 1136 - 650								
	Weight <panel></panel>		kg	41								
	Air Volume [Lo-Hi]		m³/min	17 - 19								
	Sound Level (SPL)		dB(A)	34 - 38								
	Sound Level (PWL		dB(A)	56								
utdoor nit	Dimensions	H × W × D	mm	943 - 950 - 330 (+30)								
nit	Weight Air Volume	Cooling	kg m³/min	67 55.0								
	Air volume											
	0 11 1 (001)	Heating	m³/min dB(A)	55.0 47								
	Sound Level (SPL)	Cooling	dB(A)	4/ 48								
	0 11 1 (D)4(1)	Heating	dB(A)	48 67								
	Operating Current	Sound Level (PWL) Cooling		9/ 19.0								
	Operating Current (max) Breaker Size A			19.0								
xt.	Diameter	Liquid / Gas	mm	259 9,52 / 15,88								
	Max. Length	Out-In		9.52 / 15.88 50								
	Max. Height	Out-In	m m	50 30								
	ed Operating Range	Cooling*3	°C									
Outdoor			°C	-15 × +40 -20 × +21								
[Outdoor	J	Heating	٠.	-z0 ~ +z1								

^{*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 based on standard test results.

PSA SERIES

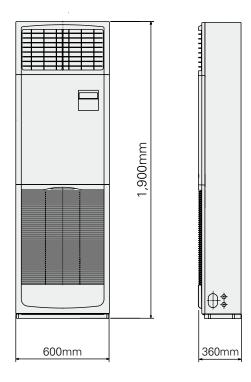
Installation of this floor-standing series is easy and quick. An excellent choice when there is a sudden need for an air conditioner to be installed.



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

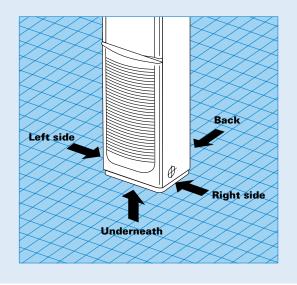
The floor-standing indoor unit is mounted on the floor, enabling quick installation. Its compact body requires only minimal space.

PSA-RP71KA



4-way pipe work connections enable greater freedom in installation

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



Built-in Remote Controller

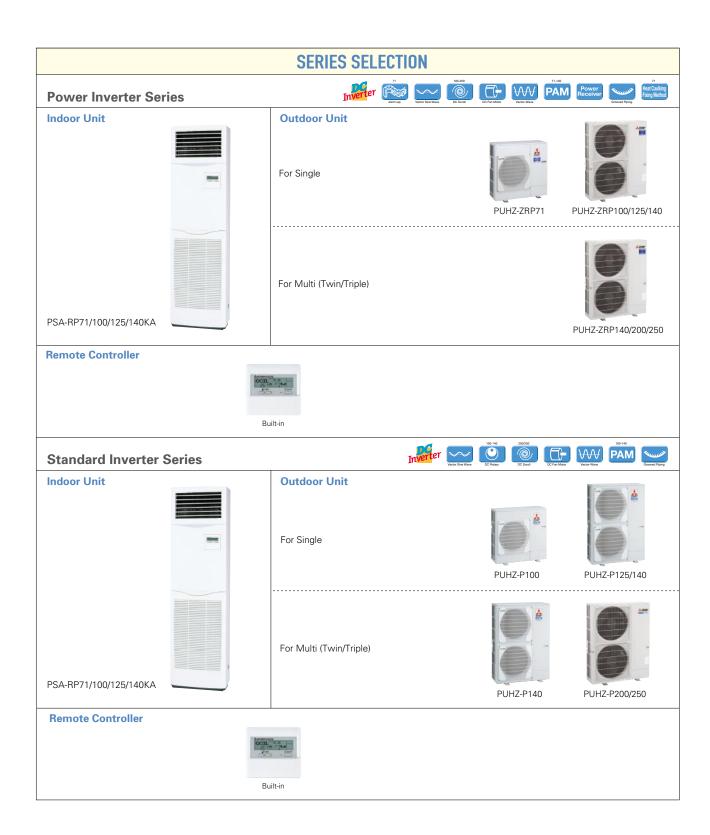
Easy Operation with Built-in PAR-21MAA Remote Controller

Icon, letter and number visibility are improved with the adoption of a dot liquid-crystal display (LCD), and operation management functions have been increased.

Main Functions

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





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

										Outd	oor Ui	nit Cap	acity								
Indoor	Unit Combination				Fo	or Sing	gle						For	Twin			Fo	or Trip	le	For Qua	adruple
				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-E		-
Standa	Standard Inverter (PUHZ-P)		-	-	-	100x1	125x1	140x1	-	-	-	-	-	71x2	100x2	125x2	-	-	71x3	-	-
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	-	-	MSDD-50TR-E	MSDD-	50WR-E	-	-	MSDT-111R-E	-	-









































Туре							Inverter Heat Pump			
Indoor U	nit			PSA-RP71KA		2100KA	PSA-RF		PSA-RF	
Outdoor	Unit			PUHZ-ZRP71VHA	PUHZ-ZRP100VKA2	PUHZ-ZRP100YKA2		PUHZ-ZRP125YKA2	PUHZ-ZRP140VKA2	PUHZ-ZRP140YKA
Refrigera	ant						R410A*1		•	
Power	Source						Outdoor power supply	,		
Supply	Outdoor (V/Phase	/Hz)					0 / Single / 50, YKA:40			
Cooling	Capacity	Rated	kW	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min - Max	kW	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0
	Total Input	Rated	kW	1.89	2.50	2.50	4.09	4.09	4.06	4.06
	EER			-	-	-	3.06	3.06	3.30	3.30
		EEL Rank		-	-	-	-	-	-	-
	Design Load		kW	7.1	9.5	9.5	12.5	12.5	13.4	13.4
	Annual Electricity	Consumption*2	kWh/a	396	595	606	847	885	872	883
	SEER			6.3	5.6	5.5	5.0*4	4.9*4	5.3*4	5.3*4
		Energy Efficiency Class		A++	A+	A	-	-	-	-
Heating	Capacity	Rated	kW	7.6	11.2	11.2	14.0	14.0	16.0	16.0
(Average Season)	Total Input	Min - Max	kW kW	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Season)	COP	Rated	KVV	2.21	3.08	3.08	4.24	4.24	4.79 3.34	4.79
	COP	EEL Rank				_	3.30	3.30	3.34	3.34
	Design Load	EEL RANK	kW	4.7	7.8	7.8	9.3	9.3	10.6	10.6
		at reference design temperature	kW	4.7 (-10°C)	7.8 (–10°C)	7.8 (–10°C)	9.3 (–10°C)	9.3 (–10°C)	10.6 (–10°C)	10.6 (–10°C)
	Deciared Capacity	at bivalent temperature	kW	4.7 (=10°C)	7.8 (–10°C)	7.8 (=10°C)	9.3 (-10°C)	9.3 (-10°C)	10.6 (=10°C)	10.6 (–10°C)
		at operation limit temperature	kW	3.5 (–20°C)	5.8 (–20°C)	5.8 (–20°C)	7.0 (–20°C)	7.0 (–20°C)	7.9 (–20°C)	7.9 (–20°C)
	Back Up Heating (kW	0	0	0	7.0 (=20 C)	7.0 (=20 C)	7.5 (-20 C)	0
	Annual Electricity		kWh/a	1666	2761	2761	3285	3285	3331	3331
	SCOP	Consumption	ice en y a	4.0	4.0	4.0	4.0*4	4.0*4	4.4*4	4.4*4
		Energy Efficiency Class		A ⁺	A ⁺	A+	-	-	_	_
Operatin	ng Current (max)	, ,	Α	19.4	27.2	8.7	27.2	10.2	28.7	13.7
Indoor	Input	Rated	kW	0.06	0.11	0.11	0.11	0.11	0.11	0.11
Unit	Operating Current		Α	0.4	0.71	0.71	0.73	0.73	0.73	0.73
	Dimensions <panel></panel>	$H \times W \times D$	mm				1900 - 600 - 360			
	Weight <panel></panel>		kg	46	46	46	46	46	48	48
	Air Volume [Lo-Mi		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 (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(+30)	110	100		0-330(+40)	110	101
Unit	Weight	I Company	kg	67	116	123	116	125	118	131
	Air Volume	Cooling	m³/min m³/min	55.0 55.0	110.0 110.0	110.0 110.0	120.0	120.0 120.0	120.0	120.0 120.0
	Sound Level (SPL)	Heating Cooling	dB(A)	55.0 47	49	49	120.0 50	50	120.0 50	50
	Sound Level (SPL)	Heating	dB(A)	47	51	51	50	52	52	52
	Sound Level (PWL)		dB(A)	67	69	69	70	70	70	70
	Operating Current		A A	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size	(IIIdA)	A	25	32	16	32	16	40	16
Ext.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
ext. Piping	Max. Length	Out-In	m	50	75	75	75	75	75	75
,	Max. Height	Out-In	m	30	30	30	30	30	30	30
Guarante	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
	da operating nange	Heating	°C	-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.

*2 Energy consumption based on standard test results. Actual energy consumption would ledgeed 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. These values are reference purpose only.

















































Туре						Inverter H	eat Pump		
Indoor U	nit			PSA-RP100KA	PSA-RP100KA	PSA-RP125KA	PSA-RP125KA	PSA-RP140KA	PSA-RP140KA
Outdoor	Unit			PUHZ-P100VHA4	PUHZ-P100YHA2	PUHZ-P125VHA3	PUHZ-P125YHA	PUHZ-P140VHA3	PUHZ-P140YHA
Refrigera				. 31121 10011174			0A*1	. 3112111011170	. OTILL THOMAS
Power	Source						ower supply		
Supply	Outdoor (V/Phase	/Hz)			VHA	A3 • VHA4:230 / Single / 50		/50	
Cooling		Rated	kW	9.4	9.4	12.3	12.3	13.6	13.6
Cooling	Сарасіту	Min - Max	kW	4.9 - 11.2	4.9 - 11.2	5.5 - 14.0	5.5 - 14.0	5.5 - 15.0	5.5 - 15.0
	Total Input	Rated	kW	3.120	3.120	4.380	4.380	5.640	5.640
	EER	Inateu	KVV	3.120	3.120	2.81	2.81	2.41	2.41
	EEN	EEL Rank		_	_	C C	C C	E E	E E
	Design Load	EEL Nalik	l kW	9.4	9.4	-	_		
	Annual Electricity	Consumption*2	kWh/a	716	716	_	_	_	
	SEER	Consumption	[KVVII/a]	4.6	4.6	_	_	_	_
	JLLII	Energy Efficiency Class		4.0 B	4.0 B	_		_	
Heating	Capacity	Rated	l kW	11.2	11.2	14.0	14.0	16.0	16.0
(Average	Jupacity	Min - Max	kW	4.5 - 12.5	4.5 - 12.5	5.0 - 16.0	5.0 - 16.0	5.0 - 18.0	5.0 - 18.0
	Total Input	Rated	kW	3.280	3.280	4.980	4.980	5.690	5.690
0000011,	COP	Iriated	I KVV	5.200	5.200	2.81	2.81	2.81	2.81
	COF	EEL Rank		_	 	D	D D	D D	D
	Design Load	LLLIMIK	l kW	8.0	8.0	_			-
		at reference design temperature		6.3 (-10°C)	6.3 (-10°C)		_	_	_
	Decial ed Capacity	at bivalent temperature	kW	7.1 (–7°C)	7.1 (-7°C)	_	_	_	_
		at operation limit temperature		5.0 (–15°C)	5.0 (-15°C)	_	_	_	_
	Back Up Heating (kW	1.7	1.7	_	_	_	_
	Annual Electricity		kWh/a	2945	2945	_	_	_	_
	SCOP	Consumption	IKVVII/G	3.8	3.8	_	_	_	_
	0001	Energy Efficiency Class		A	A	_	_	_	_
Operatir	g Current (max)		ΙΑ	28.7	13.7	28.7	13.7	30.2	13.7
Indoor	Input	Rated	kW	0.11	0.11	0.11	0.11	0.11	0.11
Unit	Operating Current		A	0.71	0.71	0.73	0.73	0.73	0.73
	Dimensions <panel></panel>		mm			1900 - 6	00 - 360		
	Weight <panel></panel>	'	ka	46	46	46	46	48	48
	Air Volume [Lo-Mi	d-Hil	m³/min	25 - 28 - 30	25 - 28 - 30	25 - 28 - 31	25 - 28 - 31	25 - 28 - 31	25 - 28 - 31
	Sound Level (SPL)		dB(A)	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51
	Sound Level (PWL		dB(A)	65	65	66	66	66	66
Outdoor	Dimensions	H×W×D	mm	943 - 950	-330 (+30)		1350 - 950	-330 (+30)	•
Unit	Weight	•	kg	75	77	99	101	99	101
	Air Volume	Cooling	m³/min	60.0	60.0	100.0	100.0	100.0	100.0
		Heating	m³/min	60.0	60.0	100.0	100.0	100.0	100.0
	Sound Level (SPL)		dB(A)	50	50	51	51	52	52
		Heating	dB(A)	54	54	55	55	56	56
	Sound Level (PWL)		dB(A)	70	70	71	71	73	73
	Operating Current	(max)	Α	28.0	13.0	28.0	13.0	29.5	13.0
	Breaker Size		А	32	16	32	16	40	16
Ext.	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
Piping	Max. Length	Out-In	m	50	50	50	50	50	50
	Max. Height	Out-In	m	30	30	30	30	30	30
Guarante	ed Operating Range	Cooling*3	°C	−15 ~ +46	-15 ~ +46	-15 ~ +46	−15 ~ +46	-15 ~ +46	-15 ~ +46
[0.44	1	The section of the se	0.0	45 04	15 .01	15 .01	15 .01	15 01	4.5 04

Guaranteed Operating Range | Cooling** | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +2





75mm

compared to PEAD-EA

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

Compact Indoor Units

The height of the models from 35–140 has been unified to 250mm. Compared to the previous PEAD-RP EA model, the height has been reduced by as much as 75mm (models 100–140), making installation in low ceilings with minimal clearance space possible.



PEAD-RP JA(L)Q

External Static Pressure

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

■External static pressure setting

Series	35	50	60	71	100	125	140
PEAD-RP EA		30/70Pa			70/130 (with op	tional motor) Pa	
PEAD-RP GA	-	-		10/50/70Pa		-	-
PEAD-RP JA			3	5/50/70/100/150Pa	а		

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

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



*For products with capacity over 10.0kW, SEER/SCOP values are measured based on EN14825. These values are for reference purposes only.

Drain Pump Option Available with All Models

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

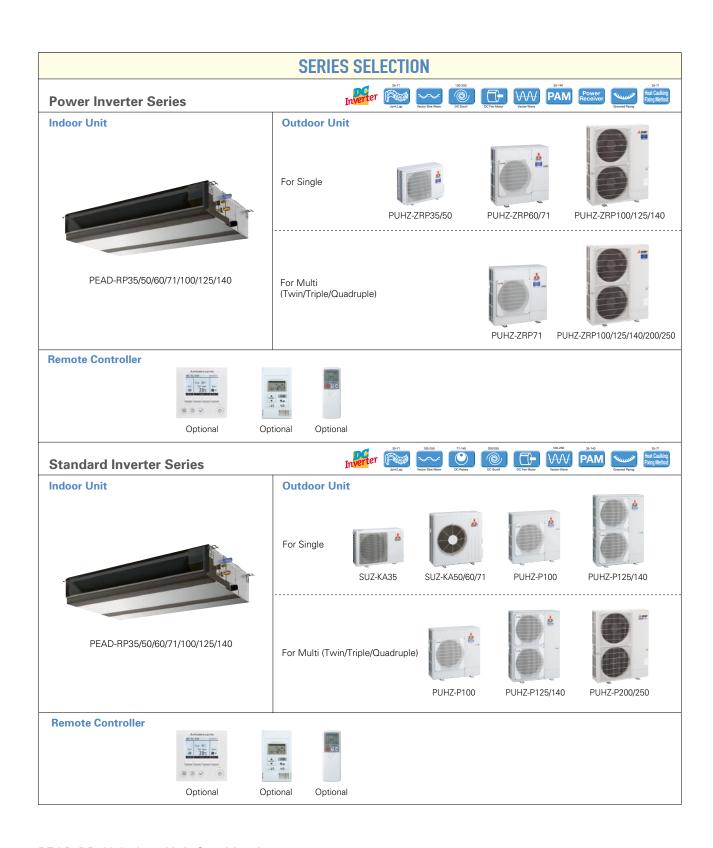






PEAD-RP JALQ → No drain pump

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



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

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









































			Optional										
Туре								nverter Heat P	ump				
ndoor Ui	nit			PEAD- RP35JA(L)Q	PEAD- RP50JA(L)Q	PEAD- RP60JA(L)Q	PEAD- RP71JA(L)Q	PEAD-RP	100JA(L)Q	PEAD-RP	125JA(L)Q	PEAD-RP	140JA(L)Q
utdoor	Unit			PUHZ- ZRP35VKA	PUHZ- ZRP50VKA	PUHZ- ZRP60VHA	PUHZ- ZRP71VHA			PUHZ- ZRP125VKA2	PUHZ- ZRP125YKA2	PUHZ- ZRP140VKA2	PUHZ- ZRP140YK
efrigera	nt							R41	0A*1				
ower	Source							Outdoor po	wer supply				
upply	Outdoor (V/Phase	/Hz)					VKA • VH	A:230 / Single /	50, YKA:400 / 1	hree / 50			
ooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.3	6.2 - 15.
	Total Input	Rated	kW	0.89 (0.87)	1.44 (1.42)	1.65 (1.63)	2.01 (1.99)	2.43 (2.41)	2.43 (2.41)	3.86 (3.83)	3.86 (3.83)	4.32 (4.29)	4.32 (4.2
	EER*5	•		_	-	-	_	-	-	3.24 (3.26)	3.24 (3.26)	3.10(3.12)	3.10(3.1
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
	Annual Electricity	Consumption*2	kWh/a	228 (211)	317 (301)	366 (351)	446 (428)	593 (583)	602 (592)	875 (858)	886 (873)	980 (956)	991 (976
	SEER*5			5.6(6.0)	5.5 (5.8)	5.8(6.1)	5.6(5.7)	5.6 (5.7)	5.5 (5.6)	5.0 (5.1)*4	4.9 (5.0)*4	4.8 (4.9)*4	4.7 (4.8)
		Energy Efficiency Class		A+ (A+)	A(A+)	A+(A++)	A+ (A+)	A+ (A+)	A(A+)	-	-	-	_
eating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
Average		Min - Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.
eason)	Total Input	Rated	kW	0.95	1.50	1.79	2.03	2.60	2.60	3.51	3.51	4.07	4.07
	COP*5	EEL D. I		-	-	-	-	-	-	3.99	3.99	3.93	3.93
	D · I I	EEL Rank	kW	2.4	3.8	4.4	4.9	7.8	7.8	9.3	9.3	10.6	10.6
	Design Load	Tak aufananan danim kananan kan	kW	2.4 (-10°C)		4.4 (-10°C)	4.9 (–10°C)				9.3 (-10°C)	10.6 (-10°C)	
	Declared Capacity	at reference design temperature	kW	2.4 (=10°C) 2.4 (=10°C)	3.8 (-10°C) 3.8 (-10°C)	4.4 (=10°C) 4.4 (=10°C)	4.9 (=10°C) 4.9 (=10°C)	7.8 (-10°C) 7.8 (-10°C)	7.8 (-10°C) 7.8 (-10°C)	9.3 (-10°C) 9.3 (-10°C)	9.3(-10°C) 9.3(-10°C)	10.6(-10°C)	10.6 (-10) 10.6 (-10)
		at bivalent temperature at operation limit temperature	kW	2.4 (=10°C) 2.2 (=11°C)	3.7 (-11°C)	2.8 (–20°C)	3.7 (–20°C)	5.8 (–20°C)	5.8 (–20°C)	7.0 (–20°C)	7.0 (–20°C)	7.9(–20°C)	7.9(–20°
	Back Up Heating C		kW	0	0	0	0	0	0	0	0	0	7.3(-20
	Annual Electricity		kWh/a	839	1231	1513	1762	2627	2627	3370	3370	3763	3763
	SCOP*5	Consumption	IKVVIIJU	4.0	4.3	4.1	3.9	4.2	4.2	3.9*4	3.9*4	4.0*4	4.0*4
		Energy Efficiency Class		A+	A+	A+	A	A+	A+	-		-	
peratin	g Current (max)	, , , , , , , , , , , , , , , , , , , ,	Α	14.1	14.4	20.6	21.0	29.2	10.7	29.3	12.3	30.8	15.8
ndoor	Input [Cooling / Hea	ating] Rated	kW	0.09(0.07)/0.07	0.11(0.09)/0.09	0.12(0.10)/0.10	0.17(0.15)/0.15	0.25(0.23)/0.23	0.25 (0.23) / 0.23	0.36(0.34)/0.34	0.36(0.34)/0.34	0.39(0.37)/0.37	0.39 (0.37)/
nit	Operating Current	(max)	А	1.07	1.39	1.62	1.97	2.65	2.65	2.76	2.76	2.78	2.78
	Dimensions <panel></panel>	H×W×D	mm	250-90	00-732	250-11	00-732		250-14	00-732	•	250-16	600-732
	Weight <panel></panel>		kg	26 (25)	28 (27)	33 (32)	33 (32)	41 (40)	41 (40)	43 (42)	43 (42)	47 (46)	47 (46)
	Air Volume [Lo-Mid		m³/min	10.0-12.0-14.0	12.0-14.5-17.0	14.5-18.0-21.0	17.5-21.0-25.0			29.5-35.5-42.0	29.5-35.5-42.0	32.0-39.0-46.0	32.0-39.0-
	External Static Pre		Pa						/ 100 / 150				
	Sound Level (SPL)		dB(A)	23 - 27 - 30	26 - 31 - 35	25 - 29 - 33	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	33 - 36 - 40	34 - 38 - 43	34 - 38 -
	Sound Level (PWL		dB(A)	52	57	55	58	61	61	65	65	66	66
utdoor nit	Dimensions	H × W × D	mm		09 - 300	943 - 950		440	100		0 - 330 (+40)	110	404
	Weight Air Volume	Cooling	kg m³/min	43 45.0	46 45.0	67 55.0	67 55.0	116 110.0	123 110.0	116 120.0	125 120.0	118 120.0	131 120.0
	Air volume	Cooling Heating	m³/min m³/min	45.0 45.0	45.0 45.0	55.0	55.0 55.0	110.0	110.0	120.0	120.0	120.0	120.0
	Sound Level (SPL)	Cooling	dB(A)	45.0	45.0	55.U 47	55.0 47	49	49	50	50	50	50
	Soutiu Level (SPL)	Heating	dB(A)	46	44	47	47	51	51	50	52	52	52
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	69	69	70	70	70	70
	Operating Current		A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size	(IIIIIII)	A	16	16	25	25	32	16	32	16	40	16
ĸt.	Diameter	Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.
iping	Max. Length	Out-In	m	50	50	50	50	75	75	75	75	75	75
	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
luarante	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46	-15 ~ +46 -20 ~ +21	-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.
*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 SERSCOP values are measured based on EN14825. These values are reference purpose only.
*5 EER/COP and SEER/SCOP for RP35-71 are measured at ESP 35Pa, for RP100 at ESP 37Pa, for RP125/140 at ESP 50Pa.



Type Indoor Un



Cooling Heating Cooling

Liquid / Gas

Out-In Out-In Cooling

Heating

mm

°C °C

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

Ext. Diameter
Piping Max. Length
Max. Height
Guaranteed Operating Range

















Inverter Heat Pump

































50 30

+21

































Type								iverter neat r	ump				
Indoor Ur	nit			PEAD- RP35JA(L)Q	PEAD- RP50JA(L)Q	PEAD- RP60JA(L)Q	PEAD- RP71JA(L)Q	PEAD-RP	100JA(L)Q	PEAD-RP	125JA(L)Q	PEAD-RP	140JA(L)Q
Outdoor	Jnit			SUZ-KA35VA4	SUZ-KA50VA4	SUZ-KA60VA4	SUZ-KA71VA4	PUHZ- P100VHA4	PUHZ- P100YHA2	PUHZ- P125VHA3	PUHZ- P125YHA	PUHZ- P140VHA3	PUHZ- P140YHA
Refrigera	nt					•	•	R41	0A*1			•	
	Source							Outdoor po	wer supply				
	Outdoor (V/Phase						A4·VHA3·VHA	4:230 / Single /	50, YHA • YHA				
Cooling	Capacity	Rated	kW	3.6	4.9	5.7	7.1	9.4	9.4	12.3	12.3	13.6	13.6
•		Min - Max	kW	1.4 - 3.9	2.3 - 5.6	2.3 - 6.3	2.8 - 8.1	4.9 - 11.2	4.9 - 11.2	5.5 - 14.0	5.5 - 14.0	5.5 - 15.0	5.5 - 15.0
	Total Input	Rated	kW	1.050 (1.030)	1.480 (1.460)	1.670 (1.650)	2.080 (2.060)	3.120 (3.102)	3.120 (3.102)	4.220 (4.200)	4.220 (4.200)	4.520 (4.500)	4.520 (4.500)
	EER*4			-	-	-	-	-	-	2.91 (2.93)	2.91 (2.93)	3.01 (3.02)	3.01 (3.02)
		EEL Rank		_	_	_	_	_	_	C	C	В	В
	Design Load		kW	3.6	4.9	5.7	7.1	9.4	9.4	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a		318 (301)	356 (340)	429 (413)	716 (694)	716 (694)	-	-	-	-
	SEER*4			5.5 (5.9)	5.4 (5.7)	5.6 (5.8)	5.8 (6.0)	4.6 (4.7)	4.6 (4.7)	-	-	-	-
		Energy Efficiency Class		A (A+)	A (A+)	A+ (A+)	A+ (A+)	В	В	-	-	-	-
Heating	Capacity	Rated	kW	4.1	5.9	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
(Average		Min - Max	kW	1.7 - 5.0	1.7 - 7.2	2.5 - 8.0	2.6 - 10.2	4.5 - 12.5	4.5 - 12.5	5.0 - 16.0	5.0 - 16.0	5.0 - 18.0	5.0 - 18.0
Season)		Rated	kW	1.110	1.620	1.930	2.040	3.103	3.103	3.870	3.870	4.430	4.430
	COP*4			_	_	_		_	-	3.62	3.62	3.61	3.61
		EEL Rank			_			_	_	A	A	A	A
	Design Load	LLL HUIK	kW	2.8	4.4	4.5	6.0	8.0	8.0				
		at reference design temperature		2.5 (-10°C)	3.9 (-10°C)	4.0 (-10°C)	5.3 (-10°C)	6.3 (-10°C)	6.3 (-10°C)	-	-	_	-
		at bivalent temperature	kW	2.5 (-7°C)	3.9 (-7°C)	4.0 (-7°C)	5.3 (-7°C)	7.1 (-7°C)	7.1 (–7°C)	-	-	-	-
		at operation limit temperature	kW	2.5 (-10°C)	3.9 (-10°C)	4.0 (-10°C)	5.3 (-10°C)	5.0 (-15°C)	5.0 (-15°C)	-	-	-	-
	Back Up Heating C	apacity	kW	0.3	0.5	0.5	0.7	1.7	1.7	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a		1466	1574	2153	2945	2945	-	-	-	-
	SCOP*4			4.0	4.2	4.0	3.9	3.8	3.8	_	-	-	-
		Energy Efficiency Class		A ⁺	A ⁺	A ⁺	A	A	A	-	-	-	-
	g Current (max)		Α	9.3	13.4	15.6	18.1	30.7	15.7	30.8	15.8	32.3	15.8
Indoor	Input [Cooling / Hea	ating] Rated	kW	0.09(0.07) / 0.07			0.17(0.15) / 0.15				0.36(0.34)/0.34		
Unit	Operating Current		Α	1.07	1.39	1.62	1.97	2.65	2.65	2.76	2.76	2.78	2.78
	Dimensions <panel></panel>	$H \times W \times D$	mm		00-732		100-732			00-732			00-732
	Weight <panel></panel>		kg	26 (25)	28 (27)	33 (32)	33 (32)	41 (40)	41 (40)	43 (42)	43 (42)	47 (46)	47 (46)
	Air Volume [Lo-Mid	d-Hi]	m³/min	10.0 - 12.0 - 14.0	12.0-14.5-17.0	14.5-18.0-21.0	17.5-21.0-25.0	24.0-29.0-34.0	24.0-29.0-34.0	29.5-35.5-42.0	29.5-35.5-42.0	32.0-39.0-46.0	32.0-39.0-46.0
	External Static Pre	essure	Pa			•	35	/50 / 70 / 100 /	150	•	•	•	•
	Sound Level (SPL)	[Lo-Mid-Hi]	dB(A)	23 - 27 - 30	26 - 31 - 35	25 - 29 - 33	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	33 - 36 - 40	34 - 38 - 43	34 - 38 - 43
	Sound Level (PWL		dB(A)	52	57	55	58	61	61	65	65	66	66
	Dimensions	$H \times W \times D$	mm	550-800-285		880-840-330			-330(+30)			-330(+30)	
Unit	Weight		kg	35	54	50	53	75	77	99	101	99	101
	Air Volume	Cooling	m³/min	36.3	44.6	40.9	50.1	60.0	60.0	100.0	100.0	100.0	100.0
		Heating	m³/min	34.8	44.6	49.2	48.2	60.0	60.0	100.0	100.0	100.0	100.0
	Sound Level (SPL)	Cooling	dB(A)	49	52	55	55	50	50	51	51	52	52
	1	Heating	dD/A)	EO	E2	EE	EE	EA	EΛ		E E	EC	EC

30 30

-10 ~ +24

-10 ~ +24

 14.0
 16.1
 28.0
 13.0

 20
 20
 32
 16

 6.35 / 15.88
 9.52 / 15.88
 9.52 / 15.88
 9.52 / 15.88

30 30

-10 ~ +24

-10 ~ +24

[[]Outdoor] Heating | $^{\circ}$ C | $_{-10^{\circ}}$ +24 | $_{-10^{\circ}}$ +24 | $_{-10^{\circ}}$ +24 | $_{-15^{\circ}}$ +21 | $_$

PEA

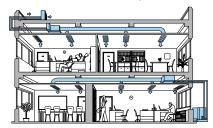
PEA-RP200/250/400/500GAQ

For elegance and style, the PEA Series compliments the room environment with an aesthetically pleasing ceiling installation and a vast line-up of performance functions. Long pipe work installation is supported, increasing freedom in the placement of indoor units.

Flexible Duct Design Enables Use of High-pressure Static Fan

A flexible duct design and 150Pa external static high-pressure are incorporated. The increased variation in airflow options ensures

operation that best matches virtually all room layouts.

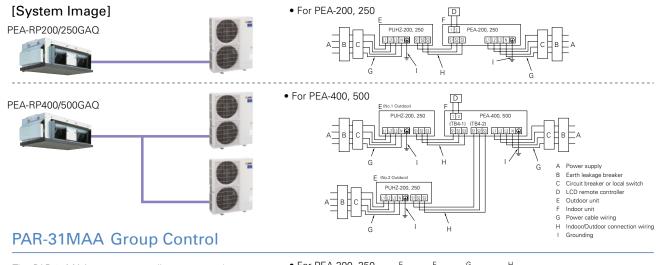


Long Refrigerant Piping Length

With the addition of more refrigerant, the maximum length for refrigerant piping has been increased to 100 metres. As a result, it is much easier to create the optimum layout for unit installation.

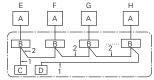
			Inverter ection	Standard Conne	
		Max. Length	Max. Height	Max. Length	Max. Height
PEA-RP	200	100m	30m	70m	30m
	250	100m	30m	70m	30m
	400	100m	30m	70m	30m
	500	100m	30m	70m	30m

Wide-ranging Line-up from 20-50kW - Extensive Array of Choices to Match Building Size



The PAR-31MAA remote controller can control up to 16 systems* as a group, and is ideal for supporting the integrated management of building air conditioners.

- *Count each set of PEA-RP400 and PEA-RP500 as two systems as two outdoor units are connected.
- For PEA-200, 250



- Outdoor unit
- Indoor unit
 Main remote controller
 Subordinate remote controller Standard (Refrigerant address = 00)
- Refrigerant address = 01
- Refrigerant address = 02
- Refrigerant address = 15

LINE-UP **Indoor Unit** Outdoor Unit **Remote Controller** * Two units are used when connecting PEA-RP400/500GAQ Power Standard Inverter Inverter Series Series PUHZ-ZRP200/250 PUHZ-P200/250 Optional PEA-RP200/250/400/500GAO Optional

PEZ-RP SERIES











































Туре					Inverter	Heat Pump	
ndoor Ur	nit			PEA-RP200GAQ	PEA-RP250GAQ	PEA-RP400GAQ	PEA-RP500GAQ
Outdoor I	Unit			PUHZ-ZRP200YKA	PUHZ-ZRP250YKA	PUHZ-ZRP200YKA x 2	PUHZ-ZRP250YKA x 2
Refrigera	nt				R4	10A*1	
ower	Source				Outdoor p	power supply	1
upply	Outdoor (V/Phas	e/Hz)			400 / 1	Three / 50	
cooling	Capacity	Rated	kW	19.0	22.0	38.0	44.0
		Min - Max	kW	9.0 - 22.4	11.2 - 27.0	18.0 - 44.8	22.4 - 54.0
	Total Input	Rated	kW	6.46	8.31	12.47	17.10
	EER	1	'	2.94	2.65	3.05	2.57
		EEL Rank		-	-	_	-
ating	Capacity	Rated	kW	22.4	27.0	44.8	54.0
verage		Min - Max	kW	9.5 - 25.0	12.5 - 31.0	18.0 - 50.0	25.0- 62.0
ason)	Total Input	Rated	kW	6.94	8.94	13.43	18.36
	COP		'	3.23	3.02	3.34	2.94
		EEL Rank		-	-	-	-
peratin	g Current (max)	1		21.0	23.3	41.8	47.4
door	Input [Cooling / H	eating] Rated	kW	1.000	1.180	1.550	2.840
nit	Operating Currer	nt (max)	A	2.0	2.3	3.8	5.4
	Dimensions	HxWxD	mm	400 - 1400 - 634	400 - 1600 - 634	595 - 19	947 - 764
	Weight		kg	70	77	130	133
	Air Volume [Lo-N	lid-Hi]	m³/min	52.0 - 65.0	64.0 - 80.0	120.0	160.0
	External Static P	ressure	Pa	150	150	150	150
	Sound Level (SPL) [Lo-Mid-Hi]	dB(A)	48 - 51	49 - 52	52* ²	53*2
	Sound Level (PW	L)	dB(A)	15	15	15	15
ıtdoor	Dimensions	HxWxD	mm	1338 - 105	60 - 330(+40)	1338 - 105	0 - 330(+40)
nit	Weight		kg	135	135	135	135
	Air Volume	Cooling	m³/min	140	140	140	140
		Heating	m³/min	140	140	140	140
	Sound Level (SPL	.) Cooling	dB(A)	59	59	59	59
		Heating	dB(A)	62	62	62	62
	Sound Level (PWL	-) Cooling	dB(A)	77	77	77	77
	Operating Currer	nt (max)	A	19.0	21.0	19.0	21.0
	Breaker Size		A	32	32	32	32
t.	Diameter	Liquid / Gas	mm	9.52 / 25.4	12.7 / 25.4	9.52 / 25.4	12.7 / 25.4
ping	Max. Length	Out-In	m	100	100	100	100
	Max. Height	Out-In	m	30	30	30	30
uarante	ed Operating Range		℃	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
Outdoo	. 5	Heating	℃	-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 fland 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/SCOP values are measured based on EN14825. These values are reference purpose only.









































































PEA-RP500GAO PUHZ-P250YKA x 2



	Group Control	
al	_	

	RD INVERTER	connection	/i-Fi)) terface Optional	Cleaning free,	Pump Down Flare connection	Self Diagnosis Failure Recal	
Туре						Inverter F	leat Pump
Indoor Ur	nit			PE	A-RP200GAQ	PEA-RP250GAQ	PEA-RP400GAQ
Outdoor I	Jnit			PU	JHZ-P200YKA	PUHZ-P250YKA	PUHZ-P200YKA x 2
Refrigera	nt					R410	0A *1
Power	Source					Outdoor po	ower supply
Supply	Outdoor (V/Phase	e/Hz)				400 / Th	ree / 50
Cooling	Capacity	Rated	kW		19.0	22.0	38.0
		Min - Max	kW		9.0 - 22.4	11.2 - 27.0	18.0 - 44.8
	Total Input	Rated	kW		6.64	8.71	12.83
					0.00	0.50	0.00

ower	Source				Outdoor po	wer supply	
Supply	Outdoor (V/Phas	se/Hz)			400 / Th	ree / 50	
Cooling	Capacity	Rated	kW	19.0	22.0	38.0	44.0
		Min - Max	kW	9.0 - 22.4	11.2 - 27.0	18.0 - 44.8	22.4 - 54.0
	Total Input	Rated	kW	6.64	8.71	12.83	17.90
	EER	•		2.86	2.53	2.96	2.46
		EEL Rank		-	-	-	-
eating	Capacity	Rated	kW	22.4	27.0	44.8	54.0
verage		Min - Max	kW	9.5 - 25.0	12.5 - 31.0	18.0 - 50.0	25.0-62.0
eason)	Total Input	Rated	kW	7.10	9.31	13.75	19.10
	СОР	•		3.15	2.90	3.26	2.83
		EEL Rank		=	-	-	-
peratin	g Current (max)	•		21.0	23.3	41.8	47.4
door	Input [Cooling / I	Heating] Rated	kW	1.000	1.180	1.550	2.840
nit	Operating Curre	nt (max)	А	2.0	2.3	3.8	5.4
	Dimensions	H x W x D	mm	400 - 1400 - 634	400 - 1600 - 634	595 - 194	17 - 764
	Weight	<u>'</u>	kg	70	77	130	133
	Air Volume [Lo-N	Mid-Hi]	m³/min	52.0 - 65.0	64.0 - 80.0	120.0	160.0
	External Static F	Pressure	Pa	150	150	150	150
	Sound Level (SP	L) [Lo-Mid-Hi]	dB(A)	48 - 51	49 - 52	52* ²	53* ²
	Sound Level (PW	VL)	dB(A)	15	15	15	15
	Dimensions	H x W x D	mm	1338 - 105	0 - 330(+40)	1338 - 1050	- 330(+40)
nit	Weight	'	kg	127	135	127	135
	Air Volume	Cooling	m³/min	140	140	140	140
		Heating	m³/min	140	140	140	140
	Sound Level (SP	L) Cooling	dB(A)	58	59	58	59
		Heating	dB(A)	60	62	60	62
	Sound Level (PW	L) Cooling	dB(A)	78	77	78	77
	Operating Curre	ent (max)	Α	19.0	21.0	19.0	21.0
	Breaker Size		Α	32	32	32	32
rt.	Diameter	Liquid / Gas	mm	9.52 / 25.4	12.7 / 25.4	9.52 / 25.4	12.7 / 25.4
ping	Max. Length	Out-In	m	70	70	70	70
	Max. Height	Out-In	m	30	30	30	30
	ed Operating Range	e Cooling*3	℃	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
Outdoor]		Heating	℃	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21

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

POWERFUL HEATING



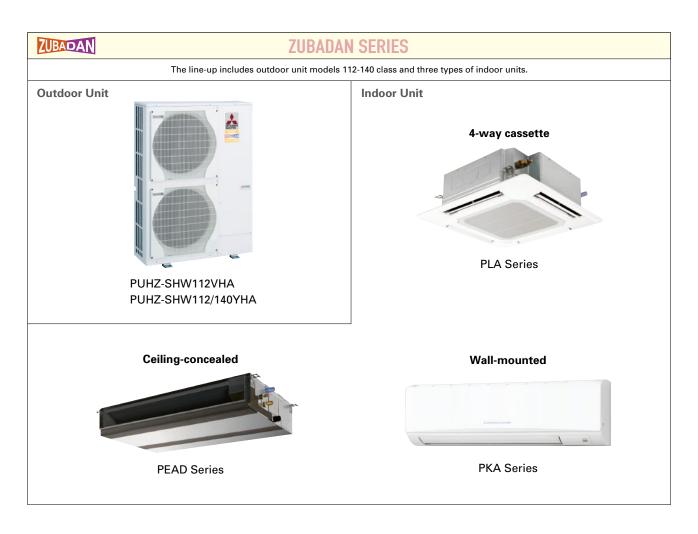


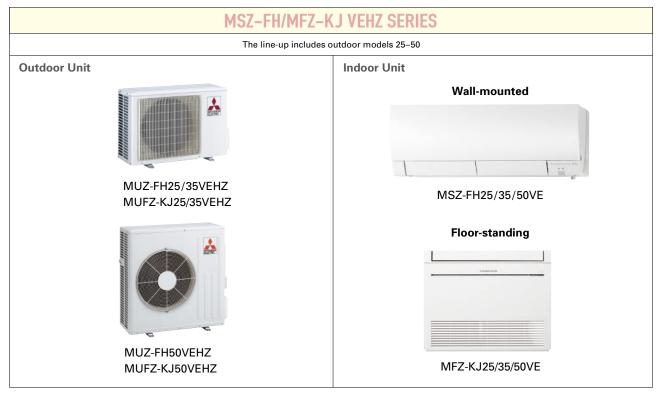


SELECTION

Line-up consists of two series.

Choose the series that best matches the building layout.





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.

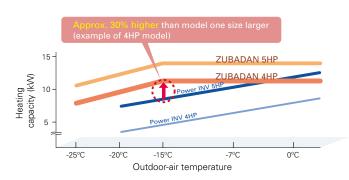


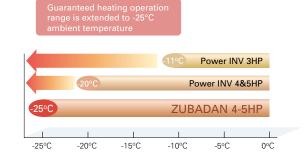
* Units in photo are Japanese models.

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.

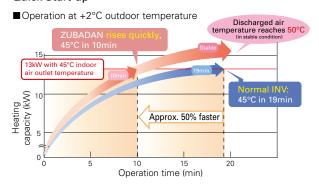


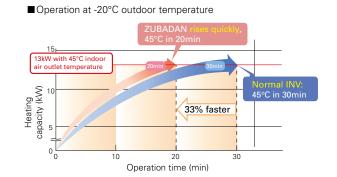


Enhanced Comfort

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





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

Outdoor outlet temp.

Outdoor temp.

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



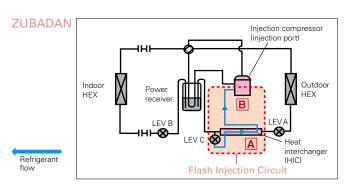
Powerful heating yet annually high energy efficiency in both cooling and heating, achieving rank A and A+.

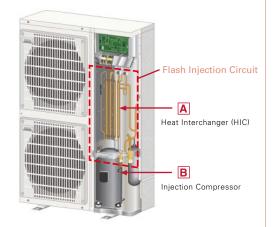


* For products with capacity over 12.0kW, SEER/SCOP values are measured based on EN14825. These values are for reference purposes only.

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

■Flash Injection Circuit





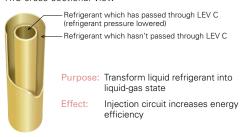
The ZUBADAN Series is equipped with Mitsubishi Electric's original Flash Injection Circuit, which is comprised of a bypass circuit and heat interchanger (HIC). The HIC transforms rerouted liquid refrigerant into a gas-liquid state to lower compression load. This process ensures excellent heating performance even when the outdoor temperature drops very low.

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

Mollier Chart Image Representing Flash Injection Circuit Operation LEV B LEV C

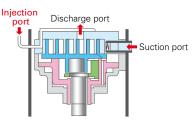
A Heat Interchanger (HIC)

HIC cross-sectional view



The compressor is subjected to a heavy load when compressing liquid refrigerant, and the result is lower operation efficiency. The addition of HIC supports refrigerant heat exchange at two different pressure levels. The heat-exchange process transforms the injected liquid refrigerant into a gas liquid state, thereby decreasing the load on the compressor during the compression process.

B Injection Compressor



Purpose: To increase the volume of refrigerant being circulated Effect: Improves heating capacity at low outdoor tempera-

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.

FH VEHZ SERIES

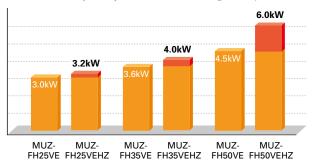
Unlike conventional air conditioning systems, the FH Series doesn't lose heating capacity when it's cold outside. Original technologies ensure excellent heating performance under extremely low outdoor temperatures and an impressive guaranteed operating range.



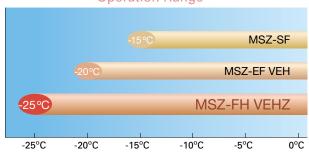
Unparalleled Heating Performance

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

Declared Capacity (at reference design temperature)



Operation Range



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.

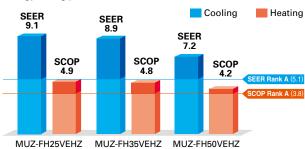




High Energy Efficiency – Energy Rank of A⁺ or higher for All Models



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



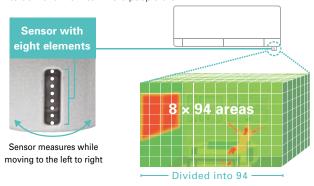
Freeze-prevention Heater Equipped as Standard

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



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.



(Image)

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

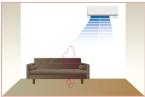
This setting can be used to directly target airflow at people such as for immediate comfort when coming indoors on a hot



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.

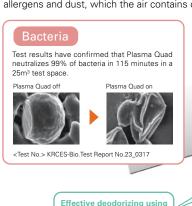




The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60 minutes

Plasma Quad

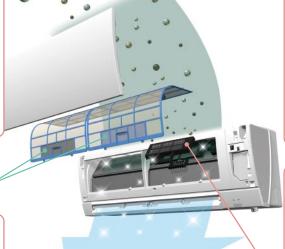
Air, like water, is something we use everyday unconsciously. Yet, clean, fresh air is a vital part of creating a healthy space for humans. Achieving this healthy air is Plasma Quad, a plasma-based filter system that effectively removes four kinds of air pollutants; namely, bacteria, viruses, allergens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



the air-purifying filter

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-RPTFEBO22



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

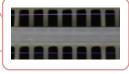




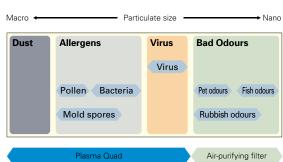
* Hepatic cells turn transparent when affected by a virus <Test No.> vrc.center, SMC No.23-002

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-RPTFEBO22



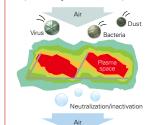


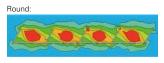


Principle of Plasma Quad

(Image)

Plasma Quad attacks bacteria and viruses from inside the unit using a strong curtain-like electrical field and discharge of electric current across the whole inlet-air opening of the unit. Tungsten discharge electrodes are used as they provide both discharge capacity and strength. In addition, through flattening the standard, round form of the field to a ribbon-like shape, a strong electrical field is produced.





Flattened: a strong electrical field is produced



CERTIFIED PLZ-SHW SERIES





















PLA-ZRP100/125BA

Standard Panel

PLP-6BA (only Panel) PLP-6BALM (with wireless remote controller) Automatic Filter Elevation Panel PLP-6BAJ (only Panel) Standard Panel with "i-see Sensor" PLP-6BAE (only Panel)
PLP-6BALME (with wireless remote controller)

Outdoor Unit



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

Remote Controller



PLP-6BALM/PLP-6BALME



























































































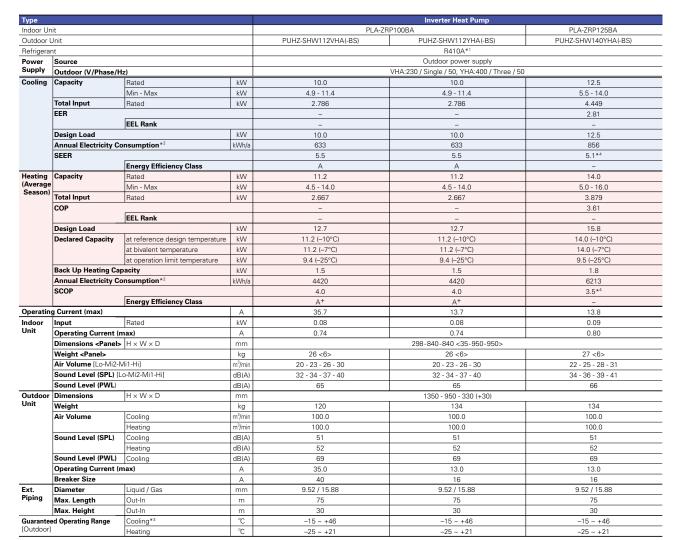












^{**1} Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that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

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

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

^{*4} SEER/SCOP values are measured based on EN14825. These values are reference purpose only.

PLZ-SHW SERIES





















PLA-RP100/125BA

Standard Panel PLP-6BA (only Panel) PLP-6BALM (with wireless remote controller) Automatic Filter Elevation Panel PLP-6BAJ (only Panel) Standard Panel with "i-see Sensor"

PLP-6BAE (only Panel) PLP-6BALME (with wireless remote controller)

Outdoor Unit



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

Remote Controller



Enclosed in PLP-6BALM/PLP-6BALME





























































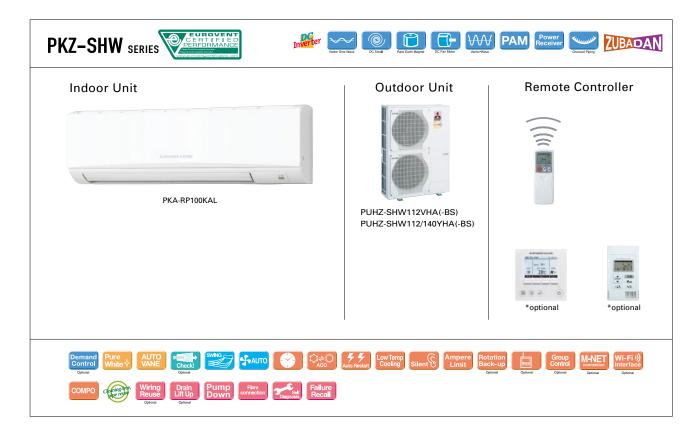






Туре		Inverter Heat Pump						
ndoor Un	it			PLA-R	RP100BA	PLA-RP125BA		
Outdoor l	Jnit			PUHZ-SHW112VHA(-BS)	PUHZ-SHW112YHA(-BS)	PUHZ-SHW140YHA(-BS)		
Refrigerar	nt			R410A*1				
Power	Source				Outdoor power supply			
Supply	Outdoor (V/Phase/H	łz)			VHA:230 / Single / 50, YHA:400 / Three / 50			
Cooling	Capacity	Rated	kW	10.0	10.0	12.5		
		Min - Max	kW	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0		
	Total Input	Rated	kW	2.850	2.850	4.449		
	EER			-	-	2.81		
		EEL Rank		-	-	_		
	Design Load		kW	10.0	10.0	12.5		
	Annual Electricity Co	onsumption*2	kWh/a	661	661	858		
	SEER			5.3	5.3	5.1*4		
		Energy Efficiency Class		A	A	-		
leating	Capacity	Rated	kW	11.2	11.2	14.0		
Average		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0		
Season)	Total Input	Rated	kW	2.794	2.794	3.879		
	COP			-	-	3.61		
		EEL Rank		-	-	-		
	Design Load		kW	12.7	12.7	15.8		
	Declared Capacity	at reference design temperature	kW	11.2 (-10°C)	11.2 (-10°C)	14.0 (-10°C)		
		at bivalent temperature	kW	11.2 (-7°C)	11.2 (-7°C)	14.0 (-7°C)		
		at operation limit temperature	kW	9.4 (-25°C)	9.4 (-25°C)	9.5 (-25°C)		
	Back Up Heating Capacity kV		kW	1.5	1.5	1.8		
	Annual Electricity Consumption*2 kWh/a			4445	4445	6506		
	SCOP			4.0	4.0	3.4*4		
		Energy Efficiency Class		A ⁺	A+			
peratin	g Current (max)	· · · · · ·	Α	35.7	13.7	13.8		
ndoor	Input	Rated	kW	0.14	0.14	0.15		
Init	Operating Current (r	max)	Α	0.94	0.94	1.00		
	Dimensions <panel></panel>		mm		298-840-840 <35-950-950>			
	Weight <panel></panel>		kg	25 <6>	25 <6>	25 <6>		
	Air Volume [Lo-Mi2-N	Mi1-Hil	m³/min	20 - 23 - 26 - 30	20 - 23 - 26 - 30	22 - 25 - 28 - 31		
	Sound Level (SPL) [L		dB(A)	32 - 34 - 37 - 40	32 - 34 - 37 - 40	34 - 36 - 39 - 41		
	Sound Level (PWL)		dB(A)	62	62	63		
Outdoor	Dimensions	$H \times W \times D$	mm	92	1350 - 950 - 330 (+30)			
Jnit	Weight		kg	120	134	134		
	Air Volume	Cooling	m³/min	100.0	100.0	100.0		
		Heating	m³/min	100.0	100.0	100.0		
	Sound Level (SPL)	Cooling	dB(A)	51	51	51		
		Heating	dB(A)	52	52	52		
	Sound Level (PWL)	Cooling	dB(A)	69	69	69		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		A	35.0	13.0	13.0		
	Breaker Size A			40	16	16		
xt.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88		
iping	Max. Length	Out-In	m	75	75	75		
riping	Max. Height	Out-In	m	30	30	30		
					1 00			
Juarantee	ed Operating Range	Cooling*3	°C	−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.
*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. These values are reference purpose only.



Туре				Inverter H	eat Pump	
Indoor Ur	nit			PKA-RP100KAL		
Outdoor Unit				PUHZ-SHW112VHA(-BS)	PUHZ-SHW112YHA(-BS)	
Refrigera	nt			R410		
Power	Source			Outdoor po	wer supply	
Supply	Outdoor (V/Phase/F	łz)		VHA:230 / Single / 50,	YHA:400 / Three / 50	
Cooling	Capacity	Rated	kW	10.0	10.0	
		Min - Max	kW	4.9 - 11.4	4.9 - 11.4	
	Total Input	Rated	kW	2.924	2.924	
	Design Load		kW	10.0	10.0	
	Annual Electricity Co	onsumption*2	kWh/a	673	673	
	SEER			5.2	5.2	
		Energy Efficiency Class		A	A	
Heating	Capacity	Rated	kW	11.2	11.2	
(Average Season)		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	
Jeason,	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)	
			kW	1.5	1.5	
			kWh/a	4664	4664	
	SCOP			3.8	3.8	
		Energy Efficiency Class		A	A	
	g Current (max)		Α	35.6	13.6	
Indoor Unit	Input	Rated	kW	0.08	0.08	
Unit	Operating Current (r		Α	0.57	0.57	
	Dimensions <panel></panel>	H × W × D	mm		1170 - 295	
	Weight <panel></panel>		kg	21	21	
	Air Volume [Lo-Mid-	<u> </u>	m³/min	20 - 23 - 26	20 - 23 - 26	
	Sound Level (SPL) [L	_o-Mid-Hi]	dB(A)	41 - 45 - 49	41 - 45 - 49	
	Sound Level (PWL)		dB(A)	65	65	
Outdoor Unit	Dimensions	$H \times W \times D$	mm	1350 - 950		
Unit	Weight		kg	120	134	
	Air Volume	Cooling	m³/min	100.0	100.0	
		Heating	m³/min	100.0	100.0	
	Sound Level (SPL)	Cooling	dB(A)	51	51	
		Heating	dB(A)	52	52	
	Sound Level (PWL)	Cooling	dB(A)	69	69	
	Operating Current (r	max)	Α	35.0	13.0	
	Breaker Size		Α	40	16	
Ext.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	
Piping	Max. Length	Out-In	m	75	75	
	Max. Height	Out-In	m	30	30	
	ed Operating Range	Cooling*3	℃	−15 ~ +46	−15 ~ +46	
[Outdoor]		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 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.

PEDZ-SHW JA SERIES CERTIFICATION AND PERFORMANCE



















Indoor Unit



PEAD-RP100/125JA(L)Q

Outdoor Unit



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

Remote Controller



*optional











































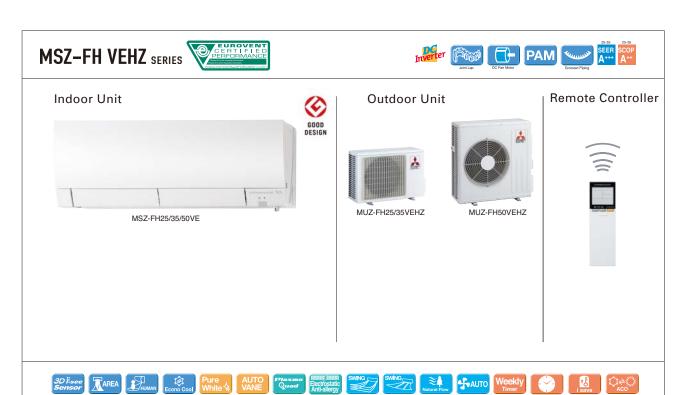






Туре					Inverter Heat Pump				
Indoor Un	iit			PEAD-RP	100JA(L)Q	PEAD-RP125JA(L)Q			
Outdoor U	Jnit			PUHZ-SHW112VHA(-BS)	PUHZ-SHW112YHA(-BS)	PUHZ-SHW140YHA(-BS)			
Refrigerar	nt			R410A*1					
Power	Source				Outdoor power supply				
Supply	Outdoor (V/Phase/H	z)			VHA:230 / Single / 50, YHA:400 / Three / 50				
Cooling	Capacity	Rated	kW	10.0	10.0	12.5			
		Min - Max	kW	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0			
	Total Input	Rated	kW	2.924 (2.904)	2.924 (2.904)	3.895 (3.875)			
	EER			_	_	3.21 (3.22)			
		EEL Rank		_	_	_			
	Design Load	-	kW	10.0	10.0	12.5			
	Annual Electricity Co	onsumption*2	kWh/a	729 (714)	729 (714)	906 (892)			
	SEER	••••	, , ,	4.8 (4.9)	4.8 (4.9)	4.8 (4.9)*4			
		Energy Efficiency Class		В	В	_			
Heating	Capacity	Rated	kW	11.2	11.2	14.0			
(Average	,,	Min - Max	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0			
Season)	Total Input	Rated	kW	3.103	3.103	3.879			
	COP	1		-	-	3.61			
		EEL Rank			_	-			
	Design Load	ELE HOIK	kW	12.7	12.7	15.8			
	Declared Capacity	at reference design temperature	kW	11.2 (–10°C)	11.2 (–10°C)	14.0 (–10°C)			
	Deciared Capacity	at bivalent temperature	kW	11.2 (–10 C)	11.2 (–10°C)	14.0 (–10 C)			
		at operation limit temperature	kW	9.4 (–25°C)	9.4 (–25°C)	9.5 (–25°C)			
	Back Up Heating Capacity		kW	1.5	1.5	1.8			
	Annual Electricity Consumption*2		kWh/a	4664	4664	6072			
	SCOP	msumption	KVVII/d	3.8	3.8	3.6*4			
	Energy Efficiency Class			3.6 A	3.6 A	3.0			
Oneratio	g Current (max)	Ellergy Efficiency Class	А	37.7	15.7	15.8			
Indoor		1 Dated	kW		0.25 (0.23) / 0.23	0.36 (0.34) / 0.34			
Unit	Input [Cooling / Heating] Rated Operating Current (max)		A	0.25 (0.23) / 0.23 2.65	2.65	2.76			
	Dimensions	H × W × D	_	2.05	250 - 1400 - 732	2.76			
		H X VV X D	mm	41 (40)	41 (40)	43 (42)			
	Weight	173	kg 3,	,	1 1	- , ,			
	Air Volume [Lo-Mid-H	·	m³/min Pa	24.0 - 29.0 - 34.0	24.0 - 29.0 - 34.0	29.5 - 35.5 - 42.0			
	External Static Press	· ·	_	35 / 50 / 70 / 100 / 150	35 / 50 / 70 / 100 / 150	35 / 50 / 70 / 100 / 150			
	Sound Level (SPL) [L Sound Level (PWL)	O-IVIIQ-HI]	dB(A)	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40			
Outdoor		III W B	dB(A)	61	61	65			
Unit	Dimensions	$H \times W \times D$	mm	100	1350 - 950 - 330 (+30)	104			
J	Weight	0	kg	120	134	134			
	Air Volume	Cooling	m³/min	100.0	100.0	100.0			
		Heating	m³/min	100.0	100.0	100.0			
	Sound Level (SPL)	Cooling	dB(A)	51	51	51			
		Heating	dB(A)	52	52	52			
	Sound Level (PWL) Cooling		dB(A)	69	69	69			
	Operating Current (n	nax)	A	35.0	13.0	13.0			
	Breaker Size		Α	40	16	16			
Ext.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88			
Piping	Max. Length	Out-In	m	75	75	75			
	Max. Height	Out-In	m	30	30	30			
	ed Operating Range	Cooling*3	°C	−15 ~ +46	−15 ~ +46	-15 ~ +46			
[Outdoor]		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/SCOP values are measured based on EN14825. These values are reference purpose only.



Туре						Inverter Heat Pump	
Indoor Un					MSZ-FH25VE	MSZ-FH35VE	MSZ-FH50VE
Outdoor l	Jnit				MUZ-FH25VEHZ	MUZ-FH35VEHZ	MUZ-FH50VEHZ
Refrigerar	nt					R410A (*1)	
Power	Source					Outdoor power supply	
Supply	Outdoor (V/Phase/I	Hz)				230 / Single / 50	
Cooling	Design Load			kW	2.5	3.5	5.0
	Annual Electricity C	onsumpti	ion (*2)	kWh/a	96	138	244
	SEER (*4)				9.1	8.9	7.2
			Efficiency Class		A+++	A+++	A++
	Capacity	Rated		kW	2.5	3.5	5.0
		Min - M	ax	kW	0.8 - 3.5	0.8 - 4.0	1.9 - 6.0
	Total Input	Rated		kW	0.485	0.820	1.380
Heating	Design Load			kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)
(Average Season)(+5)	Declared Capacity	at refere	ence design temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)
Ocason)		at bivale	ent temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)
			ation limit temperature	kW	1.7 (–25°C)	2.6 (-25°C)	3.8 (-25°C)
	Back Up Heating Capacity			kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
	Annual Electricity C	onsumpti	ion (*2)	kWh/a	924	1173	2006
	SCOP (*4)				4.9	4.8	4.2
		Energy	Energy Efficiency Class		A++	A++	A ⁺
	Capacity Rated Min - N			kW	3.2	4.0	6.0
			ax	kW	1.0 - 6.3	1.0 - 6.6	1.7 - 8.7
	Total Input Rated		kW	0.580	0.800	1.480	
Operating	g Current (max)			Α	9.6	10.5	14.0
Indoor	Input Rated			kW	0.029	0.029	0.031
Unit	Operating Current (max)		Α	0.4	0.4	0.4	
	Dimensions H × W × D		mm		305 (+17) - 925 - 234		
	Weight		kg	13.5	13.5	13.5	
	Air Volume		Cooling	m³/min	3.9 - 4.7 - 6.3 - 8.6 - 11.6 (10.5)	3.9 - 4.7 - 6.3 - 8.6 - 11.6 (10.5)	6.4 - 7.4 - 8.6 - 10.1 - 12.4
	(SLo-Lo-Mid-Hi-SHi (*3)	(Dry/Wet))	Heating	m³/min	4.0 - 4.7 - 6.4 - 9.2 - 13.2	4.0 - 4.7 - 6.4 - 9.2 - 13.2	5.7 - 7.2 - 9.0 - 11.2 - 14.6
	Sound Level (SPL)	21	Cooling	dB(A)	20 - 23 - 29 - 36 - 42	21 - 24 - 29 - 36 - 42	27 - 31 - 35 - 39 - 44
	(SLo-Lo-Mid-Hi-SHi	(3)	Heating	dB(A)	20 - 24 - 29 - 36 - 44	21 - 24 - 29 - 36 - 44	25 - 29 - 34 - 39 - 46
	Sound Level (PWL)			dB(A)	58	58	60
Outdoor	Dimensions		$H \times W \times D$	mm	550 - 8	00 - 285	880 - 840 - 330
Unit	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)	Sound Level (PWL) Cooling		dB(A)	60	61	64
		Operating Current (max)		Α	9.2	10.1	13.6
	Breaker Size			Α	10	12	16
Ext.	Diameter		Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7
Piping	Max. Length		Out-In	m	20	20	30
	Max. Height		Out-In	m	12	12	15
	ed Operating Range		Cooling	°C	-10 ~ +46	-10 ~ +46	−10 ~ +46
[Outdoor]			Heating	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24

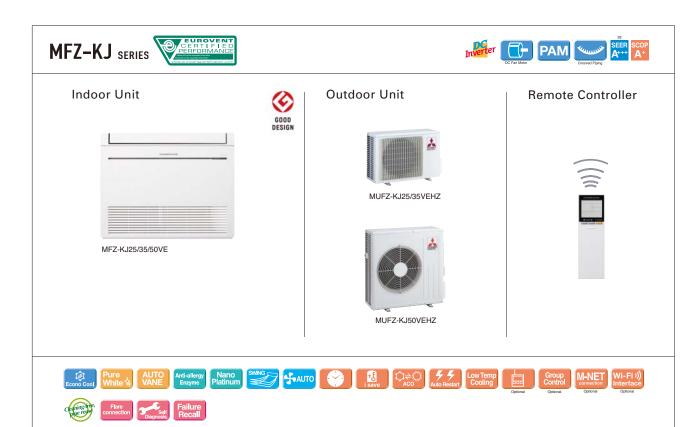
^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that 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 recircuit 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 47 for heating (warmer season) specifications.



уре					Inverter Heat Pump	
door Ur	nit			MFZ-KJ25VE	MFZ-KJ35VE	MFZ-KJ50VE
ıtdoor l	Unit			MUFZ-KJ25VEHZ	MUFZ-KJ35VEHZ	MUFZ-KJ50VEHZ
frigera	nt				R410A (*1)	
wer	Source				Outdoor power supply	
pply	Outdoor (V/Phase/H	z)			230 / Single / 50	
oling	Design Load		kW	2.5	3.5	5.0
	Annual Electricity Co	onsumption (*2)	kWh/a	102	150	266
	SEER (*4)			8.5	8.1	6.5
		Energy Efficiency Class		A+++	A++	A++
	Capacity	Rated	kW	2.5	3.5	5.0
	, ,	Min - Max	kW	0.5 - 3.4	0.5 - 3.7	1.6 - 5.7
	Total Input	Rated	kW	0.540	0.940	1.410
ating	Design Load		kW	3.5 (-10°C)	3.6 (-10°C)	4.5 (-10°C)
verage		at reference design temperatur		3.5 (-10°C)	3.6 (-10°C)	4.5 (-10°C)
eason)	, , , , , , , , , , , , , , , , , , , ,	at bivalent temperature	kW	3.5 (-10°C)	3.6 (-10°C)	4.5 (-10°C)
		at operation limit temperature	kW	1.6 (–25°C)	2.3 (-25°C)	3.3 (-25°C)
	Back Up Heating Ca		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
	Annual Electricity Co	<u> </u>	kWh/a	1104	1158	1467
	SCOP (*4)	· ·		4.4	4.3	4.2
		Energy Efficiency Class		A+	A+	A+
	Capacity	Rated	kW	3.4	4.3	6.0
	Min - Max		kW	1.2 - 5.1	1.2 - 5.8	2.2 - 8.4
	Total Input Rated		kW	0.770	1.100	1.610
eratin	g Current (max)		А	4.42	3.91	3.73
loor	Input	Rated	kW	0.016	0.016	0.038
it	Operating Current (max)		A	0.17	0.17	0.34
	Dimensions H × W × D		mm		600 - 750 - 215	
	Weight			15	15	15
	Air Volume Cooling		kg m³/min	3.9 - 4.9 - 5.9 - 7.1 - 8.2	3.9 - 4.9 - 5.9 - 7.1 - 8.2	5.6 - 6.7 - 8.0 - 9.3 - 10.6
	(SLo-Lo-Mid-Hi-SHi (*3) (I		m³/min	3.9 - 5.1 - 6.2 - 7.7 - 9.7	3.9 - 5.1 - 6.2 - 7.7 - 9.7	6.0 - 7.4 - 9.4 - 11.6 - 14.0
	Sound Level (SPL)	Cooling	dB(A)	20 - 25 - 30 - 35 - 39	20 - 25 - 30 - 35 - 39	27 - 31 - 35 - 39 - 44
	(SLo-Lo-Mid-Hi-SHi *		dB(A)	19 - 25 - 30 - 35 - 41	19 - 25 - 30 - 35 - 41	29 - 35 - 40 - 45 - 50
	Sound Level (PWL)		dB(A)	49	50	56
tdoor	Dimensions	$H \times W \times D$	mm		00 - 285	880 - 840 - 330
it	Weight		kg	37	37	55
	Air Volume	Cooling	m³/min	31.3	31.3	45.8
		Heating	m³/min	33.6	33.6	45.8
	Sound Level (SPL)	Cooling	dB(A)	46	47	49
		Heating	dB(A)	51	51	51
	Sound Level (PWL)			59	60	63
	Operating Current (r		dB(A)	9.2	10	13.6
	Breaker Size		A	10	12	16
t.	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7
oing	Max. Length	Out-In	m	20	20	30
	Max. Height	Out-In	m	12	12	15
uarante	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
				.00		10 110

^{*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) 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".

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) /City Multi/HWHP

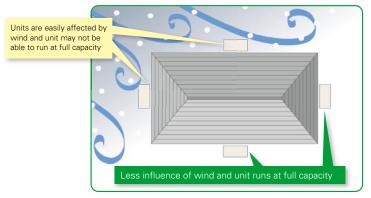
Wind and snow can significantly reduce capacity.

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



Installation Location

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

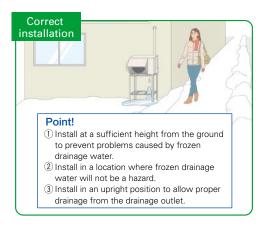


2

Measures for Drainage of Water

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

Do not install the unit close to passage as drainage water from the unit may freeze and cause a slipping hazard.

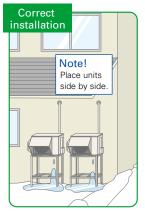


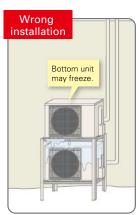
Wrong installation Drainage water splashes on pedestrians. Frozen drainage water may cause a slipping hazard.



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.





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]



Point!

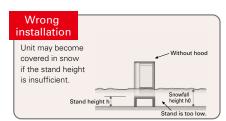
- Install at a position/height to prevent the unit being buried in snow *1 and the adverse effects of frozen drainage water. *2
- 2 Install so as to avoid the effects of snow or snowdrift.
- ③Install so as to avoid the damage from falling snow or icicles.
 - *1 Install at a height above the highest snowfall 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.





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

Correct installation Minimum height (h) should be higher than the highest snowfall depth (h0) +20cm Air intake snow hood (rear) Air intake snow hood (rear)



Install snow protection hood as necessary

[RAC/PAC]



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

	Snowy region	Cold region			
	Countermeasures for snow	Countermeasures for freezing	Remarks		
Drain socket, Centralised drain pan	Not used	Not used	Prevents freezing		
Stand	Needed	Needed	[RAC / PAC] 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.	_	Prevents heat exchanger from being covered in snow. Prevents snow accumulating inside the air duct.		
Base heater	_	Needed	[RAC / PAC] 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.		

A 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]

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.

MULTI SPLISSERIES



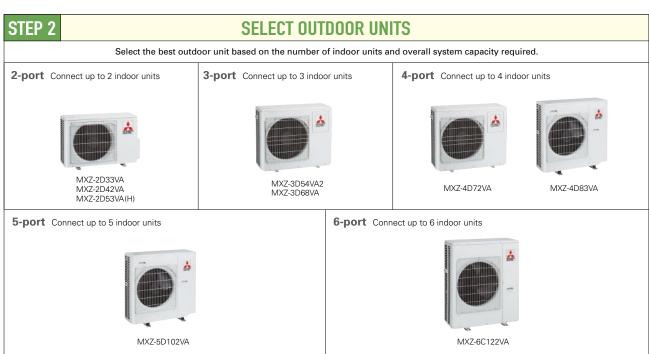


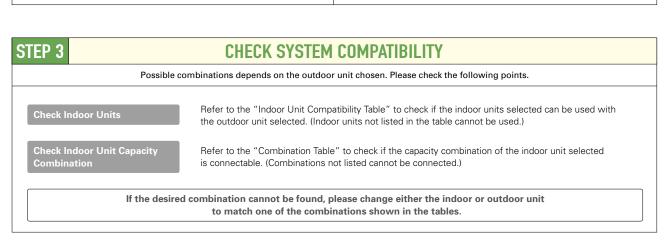


SELECTION

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







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.



2-port

MXZ-2D33VA MXZ-2D42VA MXZ-2D53VA(H)



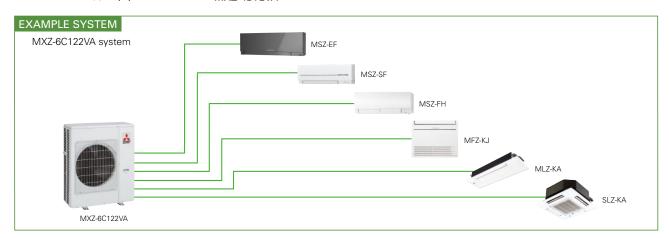
MXZ-3D54VA2 MXZ-3D68VA MXZ-4D72VA



4-port 5-port MXZ-4D83VA MXZ-5D102VA



6-port MXZ-6C122VA



Handle Up to 6 Rooms with a Single Outdoor Unit

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

Support Functions -

Wiring/Piping Correction Function* (3D54/3D68/4D72/4D83/5D102/6C122)

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.)

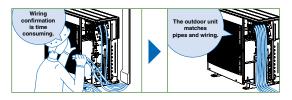
- * Function cannot be used when the outdoor temperature is below 0°C.
- The correction process requires 10–20 minutes to complete and must be conducted with the unit set to the "Cooling" mode.

Ampere Limit Adjustment*

(4D83/5D102/6C122)

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

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



Operation Lock

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

















Type (Inv	erter Multi - Split He	at Pump)			Up to 2 Inc	door Units		Up to 3 Inc	loor Units	Up to 4 Inc	door Units	Up to 5 Indoor Unit
Indoor Unit							F	Please refer to (*5	5)			
Outdoor L	Jnit			N: MXZ-2D33VA	N: MXZ-2D42VA	N: MXZ-2D53VA	N: MXZ-2D53VAH	N: MSZ-3D54VA2	^{N:} MXZ-3D68VA	N: MXZ-4D72VA	MXZ-4D83VA	MXZ-5D102VA
Refrigerar	nt							R410A*1				
Power	Source						Οι	utdoor power sup	ply			
Supply	Outdoor (V/Phase/I	łz)						230 / 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	2.83	3.91
	Design Load		kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2	8.3	10.2
	Annual Electricity C	onsumption*2	kWh/a	211	219	262	262	295	425	443	560	678
	SEER*5			5.5	6.7	7.1	7.1	6.4	5.6	5.7	5.2	5.3
		Energy Efficiency (Class*5	А	A++	A++	A++	A++	A+	A+	А	А
Heating	Capacity	Rated	kW	4.0	4.5	6.4	6.4	7.0	8.6	8.6	9.0	10.5
Average		Min - Max	kW	1.0 - 4.1	1.0 - 4.8	1.0 - 7.0	1.0 - 7.0	2.6 - 9.0	2.6 - 10.6	3.4 - 10.7	3.4 - 11.6	4.1 - 14.0
Season)	Input (Indoor+Outdoor)	Rated	kW	0.96	0.93	1.70	1.70	1.59	2.38	2.28	2.42	2.90
	Design Load	•	kW	2.7	3.2	4.5	4.5	5.0	6.8	7.0	7.1	8.6
	Declared at reference	e design temperature	kW	2.1	2.7	3.7	3.6	4.00	5.4	5.6	5.6	6.9
	Capacity at bivalent	temperature	kW	2.4	3.0	4.0	4.0	4.49	6.0	6.2	6.2	7.6
	at operation limit temperature		kW	1.7	2.3	3.3	3.0	3.17	4.4	4.7	4.7	5.6
			kW	0.6	0.5	0.8	0.9	1.00	1.4	1.4	1.5	1.7
			kWh/a	926	1065	1507	1546	1751	2466	2516	2536	3184
	SCOP*5		, , ,	4.1	4.2	4.2	4.1	4.0	3.9	3.9	3.9	3.8
		Energy Efficiency (Class*5	A+	A+	Α+	Α+	A+	A	A	А	А
Max. Ope	erating Current (Indo		Α	10.0	12.2	12.2	12.2	18.0	18.0	18.0	20.4	21.4
	Dimensions	H×W×D	mm		550 - 800(+69				840(+30) - 330			- 320(+67)
Unit	Weight	-	kg	32	37	37	38	57	57	58	69	70
	Air Volume	Cooling	m³/min	32.9	27.7	32.9	32.9	42.1	42.1	42.1	42.1	56.6
		Heating	m³/min	33.7	33.3	33.3	33.3	43.0	43.0	43.0	43.8	59.3
	Sound Level (SPL)	Cooling	dB(A)	49	46	50	50	50	50	50	49	53
	,	Heating	dB(A)	50	51	53	53	53	53	53	50	55
	Sound Level (PWL)	Cooling	dB(A)	63	60	64	64	64	64	64	64	68
	Breaker Size	1	Α	10	15	15	15	25	25	25	25	25
Ext.	Diameter	Liquid	mm	6.35 × 2	6.35 × 2	6.35 × 2	6.35 × 2	6.35 × 3	6.35 × 3	6.35 × 4	6.35 × 4	6.35 × 5
Piping		Gas	mm	9.52 × 2	9.52 × 2	9.52 × 2	9.52 × 2	9.52 × 3	9.52 × 3	12.7×1+9.52×3		
	Total Piping Length		m	20	30	30	30	50	60	60	70	80
	Each Indoor Unit Pi		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	40	40
Guarantes	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
[Outdoor]		Heating	℃	-15 ~ +24	-15 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

T	A STATE OF THE				
	verter Multi - Split He	at Pump)		Up to 6 Indoor Units	
Indoor Ur				Please refer to (*6)	
Outdoor				MXZ-6C122VA	
Refrigera				R410A*1	
Power	Source			Outdoor power supply	
Supply	Outdoor (V/Phase/F	łz)		230 / Single / 50	
Cooling	Capacity	Rated	kW	12.2	
		Min - Max	kW	3.5 - 13.5	
	Input	Rated	kW	4.05	
	EER*6			3.01	
		EEL Rank		В	
Heating	Capacity	Rated	kW	14.0	
		Min - Max	kW	3.5 - 16.5	
	Input	Rated	kW	3.81	
	COP*6			3.67	
		EEL Rank		А	
Operatin	g Current (max)		Α	30.0	
	Dimensions	$H \times W \times D$	mm	1070 - 900 - 320 (+67)	
Unit	Weight	•	kg	87	
	Air Volume	Cooling	m³/min	59.5	
		Heating	m³/min	69.9	
	Sound Level (SPL)	Cooling	dB(A)	55	
		Heating	dB(A)	57	
	Sound Level (PWL)	Cooling	dB(A)	69	
	Breaker Size		Α	32	
Ext.	Diameter	Liquid	mm	6.35×6	
Piping		Gas	mm	12.7×1+9.52×5	
	Total Piping Length	(max)	m	80	
	Each Indoor Unit Piping	Length (max)	m	25	
	Max. Height	-	m	15 (10)* ³	
	Chargeless Length		m	60	
Guarante	ed Operating Range	Cooling	°C	-10 ~ +46	
		Heating	°C	−15 ~ +24	

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

MXZ-2D33VA

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

MXZ-2D42VA MXZ-2D53VA MXZ-2D53VAH

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

MXZ-3D54VA2

IVIAZ-3D34VAZ			
No. of	Pipe lei	ngth (L)	Maximum amount
MFZ-KJ indoor units	~40m	~50m	of refrigerant
1 unit	100g additional (Total 2800g)	100g+{(L-40)m×20g/m)}	3000g
2 units	200g additional (Total 2900g)	200g+{(L-40)m×20g/m)}	3100g
3 units	300g additional (Total 3000g)	300a+{(I -40)m×20a/m)}	3200a

MX7-3D68VA MX7-4D72VA

WINE ODOUTA WINE 4	D/21/A		
No. of	Pipe lei	ngth (L)	Maximum amount
MFZ-KJ indoor units	~40m	~60m	of refrigerant
1 unit	100g additional (Total 2800g)	100g+{(L-40)m×20g/m)}	3200g
2 units	200g additional (Total 2900g)	200g+{(L-40)m×20g/m)}	3300g
3 units	300g additional (Total 3000g)	300g+{(L-40)m×20g/m)}	3400g
4 units*	400g additional (Total 3100g)	400g+{(L-40)m×20g/m)}	3500g

^{*}MXZ-4D72VA only

^{*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, the impact on global warming would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

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

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

*4 If the outdoor unit is installed higher than the indoor will, max. height is increased to 30m.

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

MX2-2D33VA — MS2-SF18VF + MS2-EF18VE

MX2-2D33VA — MS2-SF18VF + MS2-EF18VE

MX2-3D8VAA — MS2-EF18VF + MS2-EF18VE

MX2-3D8VAA — MS2-EF18VF + MS2-EF18VE

MX2-3D8VAA — MS2-EF18VF + MS2-EF18VE + MS2-EF18VE

MX2-4D83VA — MS2-EF18VF + MS2-EF18VE + MS2-EF18VE

MX2-4D83VA — MS2-EF18VF + MS2-EF18VE + MS2-EF22VE + MS2-EF22VE

MX2-6D102VA — MS2-EF18VF + MS2-EF18VE + MS2-EF22VE + MS2-EF22VE

when connected to the indoor units listed below.

MX2-6C122VA — MS2-EF18VE + MS2-EF18VE + MS2-EF22VE + MS2-EF22VE

when connected to the indoor units listed below.

MX2-6C122VA — MS2-EF18VE + MS2-EF18VE + MS2-EF22VE + MS2-EF22VE

when connected to the indoor units listed below.

MXZ-HJ SERIES

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





MXZ-3HJ50VA

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.



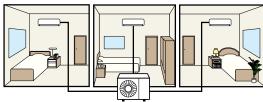
Easy to create various combinations

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

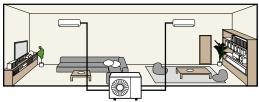


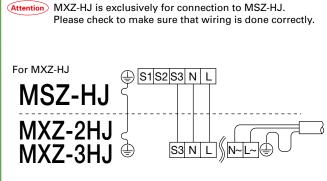


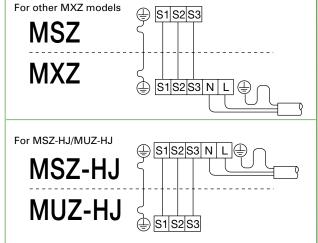
Three bedrooms



Wide living room























Type (Inverter Multi - Split Heat Pump)				Up to 2 Indoor Units	Up to 3 Indoor Units			
ndoor Ur	it			Please refer to (*4)				
Outdoor l	Jnit			MXZ-2HJ40VA	MXZ-3HJ50VA			
efrigera	nt			R410A*1				
ower	Source			Outdoor p	Outdoor power supply			
upply	Outdoor (V/Phase	/Hz)		230 / S	ingle / 50			
ooling	Capacity Rated			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			
		ty Consumption*2	kWh/a	226	283			
	SEER*4	,	, , ,	6.1	6.1			
		Energy Efficiency (·		A++			
ating	Capacity	Rated	kW	4.3	6.0			
Average		Rated	kW	1.16	1.31			
eason)	COP*4	1		3.71	4.58			
	00.	EEL Rank*4		A	4.58 A			
	Design Load		kW	3.2	4.0			
	Declared at reference design temper		kW	2.73	3.34			
		lent temperature	kW	3.01	3.73			
	- dt biva	ration limit temperature	kW	2.27	2.70			
	Back Up Heating Capacity		kW	0.47	0.66			
		ty Consumption*2	kWh/a	1105	1455			
	SCOP*4	ty Consumption	KVVII/d	4.0	3.8			
	3001	Energy Efficiency (Noos*4	4.0 A ⁺	3.6 A			
oratin	g Current (max)	Ellergy Ellicielicy (A	12.2	18.0			
	Dimensions	H × W × D	mm	550 - 800 (+69) - 285 (+59.5)	710 - 840 (+30) - 330 (+66)			
nit	Weight	lu x M x D	kg	32	57			
	Air Volume	Cooling	m³/min	29.2	40.7			
	Air volume							
	Sound Level (SPL)	Heating	m³/min	27.7	43.0			
	Souna Level (SPL)		dB(A)	48	50			
	Carrad Larral (D)40	Heating	dB(A)	52	53			
	Sound Level (PWL		dB(A)	63	64			
	Operating Current	5	Α	5.1	5.0			
	Heating		Α	5.6	5.8			
	Breaker Size	lia	Α	15	25			
t. oing	Port Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35 × 3 / 9.52 × 3			
my	Total Piping Lengt		m	30	50			
		Piping Length (max)	m	20	25			
	Max. Height		m	15 (10)* ³	15 (10)* ³			
	Chargeless Lengtl		m	20	40			
	ed Operating Range	ting Range Cooling °C			~ +46			
Outdoor]		Heating	°C	-15	~ +24			

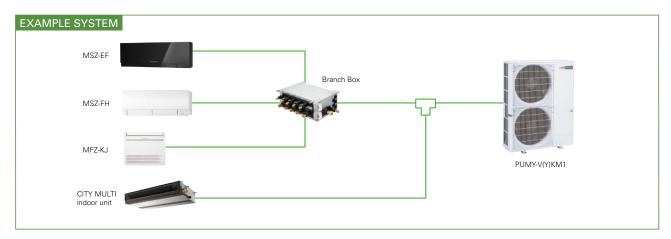
Heating — Heatin

PUMY SERIES

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



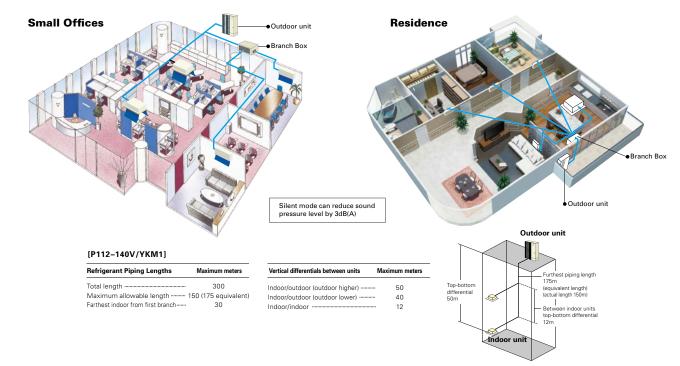
PUMY-P112/125/140VKM1 PUMY-P112/125/140YKM1



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 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.





Cooling Capacity (nominal)

Heating Capacity

Temp. Range of Cooling*5

Temp. Range of Heating

Indoor Unit Connectable

Sound Pressure Level (measured in anechoic room)

Refrigerant Piping Diameter

Fan

Compressor

Weight



Power Input

Current Input EER

Indoor Temp.

Power Input

Current Input

Indoor Temp.

Outdoor Temp.

Total Capacity

Liquid Pipe

Type × Quantity

Air Flow Rate

Motor Output

Type × Quantity

Starting Method

Motor Output

Gas Pip

Model / Quantity

COP

Outdoor Temp.



kW

kW

kW/kW

W.B.

D.B.

kW

kW

D.B.

W.B.

kW/kW

City multi

dB <A>

m³/min

L/s

cfm

kW

mm

kg

mm

Branch box

Mixed systen





2.9

3.5

123







Inverter

1,338×1,050×330 (+25)

3.5

125

3.9

*1,*2 Nominal conditions

External Dimensions (H × W × D)

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

^{*3} Up to P100 when connecting via branch box.
*4 Up to 11 units when connecting via 2 branch boxes
*5 10 to 46°C D.B.: When connecting PKFY-P15/20/25VBM, PFFY-P20/25/32VKM and PFFY-P20/25/32VLE(R)M type indoor unit.

Туре				Branc	h Box		
Model Nan	ne			PAC-MK50BC	PAC-MK30BC		
Connectab	le Number of Indo	or Units		Max. 5	Max. 3		
Power	Source			Outdoor power supply, Branch Box	/ Outdoor separate power supply		
Supply	Outdoor (V/Phas	se/Hz)		Single phase, 220/230/240V, 5	0Hz, Single phase, 220V, 60Hz		
Total Input			kW	0.0	103		
Operating (Current		Α	0.05			
Dimension:	s	$H \times W \times D$	mm	170 - 450 - 280			
Weight			kg	7.4	6.7		
Piping	Branch [Indoor Side]	Liquid	mm	6.35 × 5	6.35 × 3		
[diameter]		Gas	mm	9.52 × 4, 12.7 × 1	9.52 × 3		
	Main [Outdoor Side]	Liquid	mm	9.52			
		Gas	mm	15.88			
	Connection Met	hod		Flared			
Wiring	to Indoor Unit			3-wire + Earth wire			
	to Outdoor Unit			3-wire + Earth wire			

Indoor Unit Compatibility Table

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

		ions of outdoor unit Outdoor Unit						odels Heat	pump type				
			MXZ- *4	MXZ- *4	MXZ- *4	MXZ-	MXZ- *4	MXZ- *4	MXZ-	MXZ- *4	MXZ- *4	MXZ- *4	MXZ-
Indoor Unit			2D33VA	2D42VA	2D53VA/H	2HJ40VA		3D68VA	3HJ50VA	4D72VA	4D83VA	5D102VA	
M series	Wall- Mounted	MSZ-FH25VE		•	•		•	•		•	•	•	•
		MSZ-FH35VE		•	•		•	•		•	•	•	•
		MSZ-FH50VE					•	•		•	•	•	•
		MSZ-SF15VA	•	•	•		•	•		•	•	•	•
		MSZ-SF20VA		•	•		•	•		•	•	•	•
		MSZ-SF25VE2	•	•	•		•	•		•	•	•	•
		MSZ-SF35VE2			•		•	•		•	•	•	•
		MSZ-SF42VE2			•		•	•		•	•	•	•
		MSZ-SF50VE2			•		•	0 10		*2	. **		• 10
		MSZ-GF60VE						* 2		- 2	*2	*2	*2
		MSZ-GF71VE									*2	*2	*2
		MSZ-EF18VE2W/B/S	•	•	•		•	•		•	•	•	•
		MSZ-EF22VE2W/B/S		•	•		•	•		•	•	•	•
		MSZ-EF25VE2W/B/S	•	•	•		•	•		•	•	•	•
		MSZ-EF35VE2W/B/S			•		•	•		•		•	•
		MSZ-EF42VE2W/B/S			•		•	•		•	•	•	•
	-	MSZ-EF50VE2W/B/S	*5*6	_ *E	*5		*5	*5		*5	•	•	•
	Floor- Standing	MFZ-KJ25VE	*5*6	*5	*5		*5 *5	•*5 •*5		*5	•	•	•
		MFZ-KJ35VE		•*5	*5		*5	*5		*5		•	•
	1	MFZ-KJ50VE					*5	*5		*5	•	•	•
	1-way Cassette	MLZ-KA25VA	•	•	•		•	•		•	•	•	•
		MLZ-KA35VA		•	•		•	•		•	•	•	•
		MLZ-KA50VA					•	•		•	•	•	
	Wall- Mounted	MSZ-HJ25VA				•			•				
		MSZ-HJ35VA				•			•				
		MSZ-HJ50VA	_	_	_		_	_	•	_	_	_	_
S series	4-way Cassette	SLZ-KA25VAQ2		•			•	•		•	•		•
		SLZ-KA25VAL2	•	•	•		•	•		•	•	•	•
		SLZ-KA35VAQ		•			•	•		•			
		SLZ-KA35VAL		•	•		•	•		•	•	•	•
		SLZ-KA50VAQ					•	•		•			
		SLZ-KA50VAL	_	_	_		•	•		•	•	•	•
	Ceiling- Concealed	SEZ-KD25VAQ*3	•	•			•	•		•			
		SEZ-KD25VAL*3	•	•	•		•	•		•	•	•	•
		SEZ-KD35VAQ					•	•		•		•	
		SEZ-KD35VAL		•	•		•	•		•	•	•	•
		SEZ-KD50VAQ					•	•		•			
		SEZ-KD50VAL					•	•		•	•	•	•
		SEZ-KD60VAQ						•		•		•	
		SEZ-KD60VAL						•		•	•	•	•
		SEZ-KD71VAQ									•	•	•
		SEZ-KD71VAL									•	•	•
P series	4-way Cassette	PLA-RP35BA										_	
		PLA-RP50BA					•	•		•	•	•	•
		PLA-RP60BA						•		•	•	•	•
		PLA-RP71BA									•	•	•
		PLA-RP100BA									_		
	Ceiling- Suspended	PCA-RP50KAQ					•	•		•	•	•	•
		PCA-RP60KAQ						•		•	•		
		PCA-RP71KAQ									•	•	•
	Ceiling- Concealed	PEAD-RP50JAQ					*1	●*1		* 1	*1	●*1	● *1
	Joinedieu	PEAD-RP50JALQ					*1	●*1		* 1	● *1	●*1	•*1
		PEAD-RP60JAQ									● *1	● *1	●*1
		PEAD-RP60JALQ									● *1	*1	● *1
		PEAD-RP71JAQ									● *1	● *1	• *1
		PEAD-RP71JALQ									● *1	*1	• *1
		PEAD-RP100JAQ											
		PEAD-RP100JALQ											

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

*2 The combination is still under evaluation.

*3 SEZ-KD25 cannot be connected with MXZ-2D/3D/4D/5D when total capacity of connected indoor units is equivalent to outdoor capacity (capacity ratio is 1).

*4 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.

*5 When connecting the MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please refer to page 98.

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

Conditions for specifications

Temperature conditions are based on JIS B8616.

Cooling	Indoor	27°C DB, 19°C WB
Cooming	Outdoor	35°C DB, 24°C WB
Heating	Indoor	20°C DB
rieating	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	-	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

М	M: M Series S: S Series
	"S"= Wall-mounted , "F"= Compact floor-standing , "E"= Compact ceiling-concealed ,
S	"L"= 4- or 1-way cassette , "U"= Outdoor unit
Z	"Z"= Inverter heat pump , "H"= Fixed-speed heat pump , "blank"= Cooling only
_	
F	Series
Н	Generation
25	Rated cooling capacity (kW base)
V	230V / Single phase / 50Hz
Е	"A"= R410A with new A control, "B"= R410A with conventional control,
	"E"= R410A with new A control & ErP correspondance
HZ	"HZ"= Hyper Heating model , "H"= Anti-freeze heater equipped model ,
HZ	"S"= Silver indoor unit , "W"= White indoor unit , "B"= Black 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 , "blank"= Cooling only
Z	"Z"= Inverter , "blank"= Fixed-speed
_	
ZRP/RP/P	"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
Н	Generation
Α	"A"= A control

3) MXZ Series

M	M Series
Х	Multi-system outdoor unit (heat pump)
Z	Inverter heat pump
_	
4	Maximum number of connectable indoor units
D/HJ	Generation / Type
72	Rated cooling capacity (kW base)
V	"V"= 230V / Single phase / 50Hz
Α	"A"= R410A with new A control

Major Optional Parts

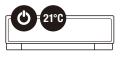
Part Name	Description	Part Name	Description
Deodourising Filter Captures small foul-smelling substances in he air.	Deodoursing filter	Drain Pump Pumps drain water to a point higher than that where the unit is installed.	*for ceiling-suspended units
Air-cleaning Filter lemoves fine dust particles from the air by neans of static electricity.	Air-cleaning filter	Decorative Cover To be attached to the upper section of ceiling- suspended models for professional kitchen use. Helps prevent dust accumulation.	Decorative cov
nti-allergen Enzyme Filter aptures the bacteria, pollen and other aller- ns in the air and neutralises them with the zyme in the filter.	Anti-allergen enzyme filter *for wal-mounted units	MA & Contact Terminal Interface Interface for connecting with the PAR-31MAA remote controller and PAC-YT52CRA, and to relay operation signals.	MA & contact terminal interface
atechin Air Filter ontains catechin, which has antiviral and tibacterial characteristics.	*Example of installation in wall-mounted unit	System Control Interface Interface to connect with M-NET controllers.	System control interface
il Mist Filter Element ter element (12 pieces) that blocks the oil st for ceiling-suspended models used in ofessional kitchens.	Filter frame Filter dament Filter dament	Wi-Fi Interface Interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.	WiFi interface Indoor unit
igh-efficiency Filter Element ement for high-efficiency filter. Removes e dust particles from the air.	Plug (for directing airflow) High-afficiency filter element *For 4-way cassette units	Connector Cable This product is an adaptor which inputs the incoming signals from an open/close switch to the air conditioner and outputs the on/off signals from the air conditioner to the back-up heater.	Switz Indoor unit
see Sensor Corner Panel orner panel holding the i-see Sensor.	i-see Sensor corner panel	Power Supply Terminal Kit Terminal bed to change the power supply from outdoor power supply to separate indoor/ outdoor power supplies.	
chuttle Plate late for blocking an air outlet of the 4-way assette indoor unit.	Shuttle Plate	Wired Remote Controller Advanced deluxe remote controller with full- dot liquid-crystal display and backlight. Equipped with convenient functions like night- setback.	AMBRITATION ③ ⊙ ⊙ ⊙
Multi-functional Casement assement for fresh-air intake and attaching the high-efficiency filter element (optional).	Indoor unit body Multi-functional casement	Simple Wired Remote Controller Remote controller with liquid-crystal display, and backlight function for operation in dark location.	
resh-air Intake Duct Flange lange attachment for adding a duct to take in esh air from outside.	'For 4-way cassette units	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.	
Space Panel Decorative cover for the installation when the reiling height is low.	Space Panel Panel	Wireless Remote Controller Signal Sender Handheld unit for sending operation signals to the indoor unit.	Handheld unit
Quick-clean Kit Cleaning tool to remove dust on the filter, fan and heat exchanger. This tool can be easily connected to a household vacuum cleaner for quick, convenient cleaning of the units.	Quick-clean kit	Wireless Remote Controller Signal Receiver Receives operation signals from the wireless remote controller handheld unit.	Signal receiver

Part Name	Description
Wireless Remote Controller Kit (Sender & Receiver) Remote controller handheld unit (signal sender) and receiver (signal receiver) for ceiling-suspended units.	Signal receiver
Control Holder Holder for storing the remote controller.	Control holder
Remote Sensor Sensor to detect the room temperature at remote positions.	Remote sensor
Remote On/Off Adapter Connector for receiving signals from the local system to control the on/off function.	Remote on/off adapter
Remote Operation Adapter Adapter to display the operation status and control on/off function from a distance.	Remote operation adapter
Connector Cable for Remote Display Connector used to display the operation status and control on/off function from a distance.	Connector cable for remote display Brown Red Red Red Red Grange Yellow Green
Distribution Pipe Branch pipe for P Series simultaneous multi- system use, or to connect two branch boxes for MXZ-8B140V(Y)A/160V(Y)A systems.	Indoor unit Indoor unit Indoor unit Distribution pipe 'P Series with 2 indoor units
Joint Pipe Part for connecting refrigerant pipes of different diametres.	Indoor unit Joint pipe Onsite pipe Indoor unit Insulator Outdoor unit
Liquid Refrigerant Dryer Removes water and minute particles from refrigerant pipes.	
Branch Box Outer Cover Casement for branch boxes.	Complete view Branch box outer cover
Air Discharge Guide Changes the direction of air being exhausted from the outdoor unit.	
Air Protection Guide Protects the outdoor unit from the wind.	

Part Name	Description
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.	Cap
Centralised Drain Pan Catches drain water generated by the outdoor unit.	Outdoor unit Centralised drain pan Base (local construction)
M-NET Converter Used to connect P Series A-control models to M-NET controllers.	Group remote controller WNET Converter Power work vort
Control/Service Tool Monitoring tool to display operation and self-diagnosis data.	Control/service tool
Step Interface Interface for adjusting the capacity of inverter- equipped outdoor units. (For further details, refer to pg. 130.)	Case interior Installed in case

Wi-Fi Interface (MELCloud™)





MELCloud is a new Cloud based solution for controlling your Mitsubishi Electric Air Conditioning or Heating systems either locally or remotely by PC, Tablet or Smartphone via the Internet.

Remote control

MELCloud allows you to take control of your Mitsubishi Electric systems from anywhere in the world as long as you have internet access. So forgetting to turn off your air conditioning or heating system when away on holiday is no longer a problem.

Additional functions

MELCloud also provides some new functions, such as localised weather information, frost protection, 7 day multi programmable timer and holiday mode, with more features planned for the future.

User types

MELCloud has been designed for wide range of users from single users with single air conditioning or heating systems in a single building, up to larger user who may have multiple properties and multiple systems that they wish to monitor and control.

Whichever type of user you are, MELCloud can provide you with required control and access you need for modern living.

- *Remote operation can be achieved as long as you have a connected system and you have an internet connection at the location of your equipment.
- *Local operation is also possible if you close to where the system that you wish to control is, but simply to not wish to use the local controller and have your PC, Tablet or Smartphone to hand. Please note this is not direct connection via router, local cotnrol still requires internet connection to work.

Optional Parts List <Indoor>

Option Indoor Unit			Anti-a Enzym	illergy e Filter	Electrostatic Anti-allergy Enzyme Filter			Deodourising Filter		Oil Mist Filter Element		ligh-eff		,		Filte	r Box			i-see Sensor Corner Panel	Shutter Plate	Multi- functional Casement			Space Panel	Quick- clean Ki	
			MAC- 408 FT-E	MAC- 171 FT-E	MAC- 2310 FT	MAC- 2320 FT	MAC- 2330 FT	MAC- 3000FT-E	MAC- 3004 CF-E	PAC- SG38 KF-E	PAC- SH59 KF-E	PAC- SH88 KF-E	PAC- SH89 KF-E	PAC- SH90 KF-E	PAC- KE92 TB-E	PAC- KE93 TB-E	PAC- KE94 TB-E	PAC- KE95 TB-E	1001	PAC- SA1 ME-E	PAC- SH51 SP-E	PAC- SH53 TM-E	PAC- SH65 OF-E	PAC- SF28 OF-E	PAC- SH48 AS-E	MAC- 093 SS-E	
	Wall - mounted	MSZ-FH25VE MSZ-FH35VE					•	•																			F
- [mounted	MSZ-FH50VE					0																				F
		MSZ-EF18VE2(W)(B)(S)				•													•								
M SERIES		MSZ-EF22VE2(W)(B)(S)				•													•								I
		MSZ-EF25VE2(W)(B)(S)				•													•								4
		MSZ-EF35VE2(W)(B)(S) MSZ-EF42VE2(W)(B)(S)				•													•					_			+
		MSZ-EF50VE2(W)(B)(S)				•																					\boldsymbol{r}
		MSZ-SF15VA																									
		MSZ-SF20VA																									₽
		MSZ-SF25VE2 MSZ-SF35VE2				•																					+
		MSZ-SF35VE2 MSZ-SF42VE2				•																					+
		MSZ-SF50VE2				•																					
		MSZ-GF60VE			•																						₽
		MSZ-GF71VE			•																						+
		MSZ-HJ25VA MSZ-HJ35VA																									+
		MSZ-HJ50VA																									
		MSZ-HJ60VA																									T
	Flore:	MSZ-HJ71VA				-																	\vdash				+
	Floor - standing	MFZ-KJ25VE MFZ-KJ35VE	•																								\vdash
		MFZ-KJ50VE	•																								
	1-way	MLZ-KA25VA		•					•																		\Box
	cassette	MLZ-KA35VA		•					•																		+
4	4-way	MLZ-KA50VA SLZ-KA25VAQ3/VAL3		•		-			•				-										\vdash	-			+
	4-way cassette	SLZ-KA35VAQ3/VAL3																									\vdash
		SLZ-KA50VAQ3/VAL3																									
	Ceiling -	SEZ-KD25VAQ/VAL																									\Box
4	conceald	SEZ-KD35VAQ/VAL																									4
1		SEZ-KD50VAQ/VAL SEZ-KD60VAQ/VAL				-					-		-										\vdash	-			\vdash
4-way Cassette		SEZ-KD71VAQ/VAL																									
		PLA-RP35BA									•									•	•	•	•		•		Γ
	Cassette	PLA-RP50BA									•									•	•	•	•		•		Ĺ
		PLA-RP60BA PLA-RP71BA									•									•	•	•	•		•		\vdash
		PLA-RP/1BA PLA-RP100BA				<u> </u>					•		-							•			•	\dashv	•		\vdash
		PLA-RP125BA									•									•	•				•		Γ
		PLA-RP140BA2									•									•	•	•	•		•		\perp
		PLA-ZRP35BA									•									•	•	•	•		•		\vdash
		PLA-ZRP50BA PLA-ZRP60BA									•									•	•	•	•		0		\vdash
		PLA-ZRP71BA									•									•	•	•	•		•		Г
		PLA-ZRP100BA									•										•	•			•		T
		PLA-ZRP125BA									•		\Box							•	•	•	•		•		+
	Ceiling -	PLA-ZRP140BA PEAD-RP35JAQ									•				•					•	•	•	•		•		\vdash
١	conceald	PEAD-RP35JAQ PEAD-RP35JALQ													•												\vdash
		PEAD-RP50JAQ													•												Г
		PEAD-RP50JALQ													•												£
		PEAD PROUND									_					•								-			+
		PEAD-RP60JALQ PEAD-RP71JAQ														•											\vdash
		PEAD-RP71JALQ														•											Γ
S		PEAD-RP100JAQ															•										Ĺ
		PEAD RP125 IAO															•										\vdash
		PEAD-RP125JAQ PEAD-RP125JALQ															•							\dashv			\vdash
		PEAD-RP140JAQ															-										
		PEAD-RP140JALQ																•									I
		PEA-RP200GAQ																									Ĺ
		PEA-RP250GAQ PEA-RP400GAQ																									\vdash
		PEA-RP500GAQ																					\vdash	\dashv			\vdash
	Wall -	PKA-RP35HAL																									Γ
١	mounted	PKA-RP50HAL											\Box										H	\Box			Ĺ
		PKA-RP60KAL PKA-RP71KAL																									\vdash
		PKA-RP/TKAL PKA-RP100KAL																									\vdash
١	Ceiling -	PCA-RP35KAQ										•															Γ
١	suspended	PCA-RP50KAQ																						\Box			4
		PCA-RP60KAQ											•										\vdash	_			+
		PCA-RP71KAQ PCA-RP100KAQ											•	•													\vdash
		PCA-RP100KAQ PCA-RP125KAQ												•													
		PCA-RP140KAQ												•													
		PCA-RP71HAQ								•														•			F
	Floor -	PSA-RP71KA				-																	\sqcup	_			+
8	standing	PSA-RP100KA									_																+
		PSA-RP125KA																						- 1			

^{*1} P Series indoor units can be used in combination with SUZ or MXZ outdoor units. *2 MAC-333IF-E or MAC-397IF-E is required. *3 Unable to use with wireless remote controller. *4 Two interface components required for each indoor unit. *5 Refrigerant address must be set to 00. *6 PAC-SH29TC-E is required.

_		Orain	Pump)			orative over	System Control Interface	MA & Contact Terminal Interface	Wi-Fi Interface	Conn Ca	ector ble	P	ower Termi	Supply nal Kit	у		Remote Co	Terminal Block kit for PKA	Signal Sender	Sig	s Remo gnal eiver	Controller Kit (Sender & Receiver)	Controller Holder	Remote Sensor	Remote On/Off Adapter	Remote Operation Adapter	Conne Cabl for Ren Displa
AC- H94 M-E	PAC- SH75 DM-E	PAC- SH83 DM-E	PAC- SH84 DM-E	PAC- SH85 DM-E	PAC- KE07 DM-E	PAC- SF81 KC-E	PAC- SF82 KC-E			MAC- 557IF-E		_	PAC- SG94 HR-E	PAC- SG96 HR-E	PAC- SG97 HR-E	PAC- SH52 HR-E	PAR- 31MAA		PAC- SH29TC-E	PAR- SL97A-E	PAR- SA9C A-E	PAR- SA9F A-E	PAR- SL94 B-E	MAC- 1200 RC	PAC- SE41 TS-E	PAC- SE55 RA-E	PAC- SF40 RM-E	PAC SA8 HA-
								•	•	•	•	•					*2 *2	●*2 ●*2										
											•	•					* 2	•*2										
								•	•	•							*2	*2 *2										
										•							6 *2	* 2										
								•	•	•							*2 *2	●*2 ●*2										
								•	•	•							*2	* 2										
								•	•	•							•*2	•*2										
								0	•	•							*2 *2	*2 *2										
								•	•	•							•*2	•*2										
								•	•	•							*2 *2	*2 *2										
								•	•	•							•*2	•*2										
								•	•	•							*2	•*2						•				
																								•				
																								•				
																								•				
1								•	•	•	•	•					*2 *2	•*2 •*2										
								•	•	•	•	•					*2	0°2										
								•	•	•							*2 *2	● *2										
								•	•	•							*2	*2 *2										
								•	•	•							VAQ	VAQ							•	•	•*3	•
								•	•	•							VAQ VAQ	VAQ							•	•	•*3	
					•			•	•	•							VAQ	VAQ		•	•				•	•	• 3	•
					•			•	•	•							VAQ VAQ	VAQ		•	•				•	•	•*3	•
					•			•	•	•							VAQ	VAQ		•	•				•	•	●,3	•
					•			• 1	• 1	•						•	VAQ	VAQ		•	•	•			•	•	●*3	•
								•11	●"1	•						•	•	•				•			•		-3	
4								0 "1	●*1 ●*1	•						0	•	•		•		0			•	•	●*3 ●*3	•
								•11	-1	•						•	•	•		•		•			•	•	*3	•
								•	•	•						•	•	•		0		0			•	•	•*3	•
							+	0"1	-11	•						•	•	•		•		•			•	•	-3	•
								0 "1	0"1	•						•	•	•		•		•			•	0	-3	•
							+	●"I	●*1 ●*1	•						•	•	•		•		•			•	•	●*3	•
								• "1	●*1	•						•	•	•		•		•			•	•	● *3	0
							-	●"I	●*1 ●*1	•						•	•	•		•		•			•	•	●*3 ●*3	•
								0 "1	1 1	•					•		•	•		•	•					•	●*3	•
	_							●"I	●*1 ●*1	•					•		•	•		•	•				•	•	●*3 ●*3	0
								0 "1	1 1	•					•			•		•	•				•	•	* 3	•
\dashv					\vdash		+	●"I	●*1 ●*1	•					•		•	•		•	•				•	•	●*3 ●*3	•
								0 "1	1 1	•					•		•	•		•	•				•	•	* 3	•
-								●"I	●*1 ●*1	•					•		•	•		•	•				•	•	●*3	•
								0 "1	1 1						•			•		•	•				•	•	●*3	•
\dashv		\vdash			-			●"I	●*1 ●*1	•					•		•	•		•	•				•	•	●*3	•
								0 "1	1 1	•					•			•		•	•					•	●*3	•
-								●"I	●*1 ●*1	•					•		•	•		•	•				•	•	●*3	•
								0 "1	11	•							•	•								•	-3	
-[<u> </u>		1	•°4									•	•							•	•*5 •*5		
	•							•1	• *1	•			•				●*6	● *6	•	•					•	•		•
•	•							•"1 •"1	●*1 ●*1	•			•				•*6	• *6 • *6	•	•					•	•		- 0
•								0"1	0"1	•							.6	*6	•	•								•
•		-						●"1 ●"1	●*1 ●*1	•			•				-6	16	•	•					•	•		•
		0						●*1 ●*1	●*1 ●*1	•				0			•	•		•			•		•	•	● *3	•
				•				0 "1	0 "1	•				•			•	•		•			•		•	•	-3	•
			•					•11	*1	•				•			•	•		•			•		•	•	●,3	•
			•							•				•			•	•		•			•			•	-3	•
			•			•				•				•	•		•	•		•			•		•	•	●*3 ●*3	0
										•				•	-										•	•	-3	
_[•				•											•	•	● *3	•
										•				•											_	_	9*3	-

Optional Parts List <Outdoor>

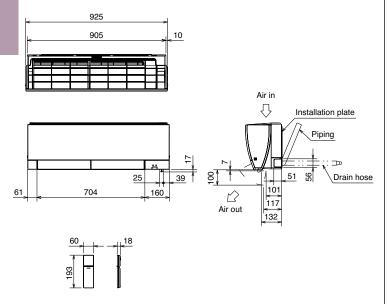
		Option			Distribut	ion Pipe					,		Joint Pip	е				Liquid F	Refrigera	nt Dryer	
		- Phon	F	or	For	For	F.		Unit ø6.35	Unit ø9.52	Unit ø15.88	Unit ø9.52	Unit ø6.35	Unit ø9.52	Unit ø12.7	Unit ø12.7	V = 1	For	For	For	
			Tw (50:	vin	Triple	Quadruple (25:25:25:25)	Flare Connection	Brazed	> Pipe ø9.52	> Pipe ø12.7	> Pipe ø19.05	> Pipe ø15.88	> Pipe ø9.52	> Pipe ø12.7	> Pipe ø9.52	> Pipe ø15.88	Y-shaped pipe	pipe ø6.35	pipe ø9.52	pipe ø12.7	
	44U-*		MSDD- 50TR-E	MSDD- 50WR-E	MSDT- 111R-E	MSDF- 1111R-E	MSDD- 50AR-E	MSDD- 50BR-E	PAC- SG72	PAC- SG73	PAC- SG75	PAC- SG76	PAC- 493	MAC- A454	MAC- A455	MAC- A456	PAC- AK52	PAC- SG81	PAC- SG82	PAC- SG85	
Ou	tdoor Unit		501H-E	50WH-E	IIIK-E	IIIIK-E	50AH-E	50BH-E	RJ-E	RJ-E	RJ-E	RJ-E	PI	JP-E	JP-E	JP-E	YP-E	DR-E	DR-E	DR-E	
	F Series	MUZ-FH25VE MUZ-FH25VEHZ																			
		MUZ-FH35VE																			
		MUZ-FH35VEHZ																			
		MUZ-FH50VE MUZ-FH50VEHZ																			
	E Series	MUZ-EF25VE																			
		MUZ-EF25VEH																			
		MUZ-EF35VE MUZ-EF35VEH																			
		MUZ-EF42VE																			
		MUZ-EF50VE																			
	S Series	MUZ-SF25VE MUZ-SF25VEH																			
(A)		MUZ-SF35VE																			
RIE		MUZ-SF35VEH																			
M SERIES		MUZ-SF42VE MUZ-SF42VEH																			
Σ		MUZ-SF50VE																			
	C Cori	MUZ-SF50VEH																			
	G Series	MUZ-GF60VE MUZ-GF71VE																			
	H Series	MUZ-HJ25VA																			
		MUZ-HJ35VA																			
		MUZ-HJ50VA MUZ-HJ60VA																			
	Compact floor	MUZ-HJ71VA																			
		MUFZ-KJ25VE																			
	liooi	MUFZ-KJ25VEHZ MUFZ-KJ35VE																			
		MUFZ-KJ35VEHZ																			
		MUFZ-KJ50VE MUFZ-KJ50VEHZ																			
9 0	SERIES	SUZ-KA25VA4								•											
	JEI IIIEO	SUZ-KA35VA4								•											
		SUZ-KA50VA4 SUZ-KA60VA4																			
		SUZ-KA71VA4																			
	WERFUL	PUHZ-SHW112VHA	•																•		
HE.	ATING	PUHZ-SHW112YHA PUHZ-SHW140YHA	•																•		
	Power	PUHZ-ZRP35VKA							•												
	Inverter	PUHZ-ZRP50VKA							•	•	•							•	•		
		PUHZ-ZRP60VHA PUHZ-ZRP71VHA	•							•									•		
		PUHZ-ZRP100VKA2	•							•	•								•		
		PUHZ-ZRP100YKA2 PUHZ-ZRP125VKA2	•							•	•								•		
		PUHZ-ZRP125YKA2	•							•	•								•		
ES		PUHZ-ZRP140VKA2	•		•					•	•								•		
SERIE		PUHZ-ZRP140YKA2 PUHZ-ZRP200YKA	•	•	•	•				•									•		
Д.		PUHZ-ZRP250YKA		•	•	•														•	
	Standard Inverter	PUHZ-P100VHA4	•																•		
	mverter	PUHZ-P125VHA3 PUHZ-P140VHA3	•		•														•		
		PUHZ-P200YKA		•	•	•													•		
		PUHZ-P250YKA PUHZ-P100YHA2	•	•	•	•													•	•	
		PUHZ-P100YHA2 PUHZ-P125YHA	•																•		
		PUHZ-P140YHA	•		•														•		
MX	Z SERIES	MXZ-2D33VA MXZ-2D42VA																			
		MXZ-2D42VA MXZ-2D53VA(H)												•							
		MXZ-3D54VA2												0							
		MXZ-3D68VA MXZ-4D72VA										•		•	•	•					
		MXZ-4D72VA MXZ-4D83VA										•	•	•		•					
		MXZ-5D102VA										•	•	•	•	•					
		MXZ-6C122VA MXZ-2HJ40VA										•	•	•	•	•					
		MXZ-2HJ40VA MXZ-3HJ50VA												•							

^{*1} Operation in "AUTO" step mode only: make sure to turn OFF "SW2-6" and put "TH5" (2 phose pipe thermistor) at the appropriate position.

	Branch Box Outer Cover					Outlet G	ı		,			tection		Drain S		Free preve Hea (for Dra	ention eter		ized Dra		M-N Conv	erter	Control/ Service Tool	1 PC board w/attachment kit attachment kit
	PAC- AK350 CVR-E	MAC- 889 SG	MAC- 881 SG	MAC- 856 SG	MAC- 886 SG-E	MAC- 883 SG	MAC- 857 SG	PAC- SJ07 SG-E	PAC- SG59 SG-E	PAC- SH96 SG-E	PAC- SJ06 AG-E	PAC- SH63 AG-E	PAC- SH95 AG-E	PAC- SJ08 DS-E	PAC- SG61 DS-E	MAC- 643 BH-E	MAC- 644 BH-E	PAC- SG63 DP-E	PAC- SG64 DP-E	PAC- SH97 DP-E	PAC- SJ19 MA-E	PAC- SF83 MA-E	PAC- SK52ST	PAC- IF012B-E
		•	•																					
		•																						
		•	•		•																			
-					•																			
\Box		•	•																					
-		•	•																					
		•																						
		•	•													•								
\dashv		•	•																					
		•	•																					
		•	•																					
		•																						
		•																						
					•																			
コ					•																			
\dashv					•	•																		
-																								
		•	•																					
_					•																			
\dashv		•	•																					
		•	•																					
\dashv		•	•																					
					•																			
\dashv																								• *1
\dashv		•	•													•								●*1
																	•							• *1
\dashv					•																			●*1 ●*1
\dashv									•			•										•	•	•
\Box									•			•										•	•	•
\dashv									•			•		•				•			•	•	•	•
								•			•			•				•			•		•	•
									•			•			•				•			•	•	•
\exists									-	•			•		•					•		•	•	•
\Box										•			•		•					•		•	•	•
\dashv										•			•		•					•		•	•	•
													•									•	•	•
\Box										•			•		•					•		•	•	•
\dashv										•			•		•					•		•	•	•
二									•			•							•				•	• *1
\dashv									•			•			•				•			•	•	●*1 ●*1
																							•	• *1
コ										•			•		•					•		•	•	0 *1
\dashv									•			•			•				•			•	•	●*1 ●*1
									•			•			•				•			•	•	© *1
\dashv		•	•																					
\dashv		•																						
\Box				•																				
\dashv				•																				
				•																				
				•																				
		•	•				•																	
一丁																								

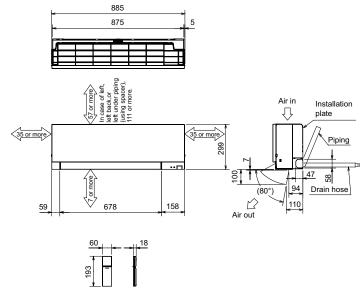
MSZ-FH25VE MSZ-FH35VE MSZ-FH50VE

INDOOR UNIT



 $\begin{array}{ll} {\sf MSZ-EF18VE2(W)(B)(S)} & {\sf MSZ-EF22VE2(W)(B)(S)} \\ {\sf MSZ-EF25VE2(W)(B)(S)} & {\sf MSZ-EF35VE2(W)(B)(S)} \\ {\sf MSZ-EF42VE2(W)(B)(S)} & {\sf MSZ-EF50VE2(W)(B)(S)} \\ \end{array}$

INDOOR UNIT



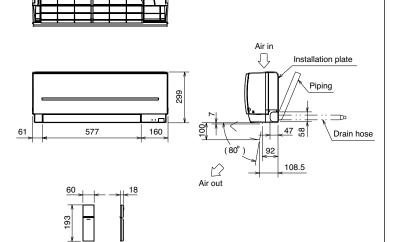
MSZ-SF25VE2 MSZ-SF35VE2 MSZ-SF42VE2 MSZ-SF50VE2

10

INDOOR UNIT

798

778

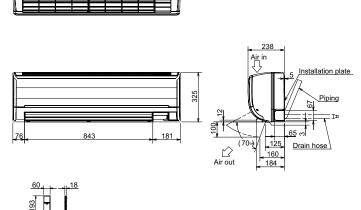


MSZ-GF60VE MSZ-GF71VE

1100

1090

INDOOR UNIT

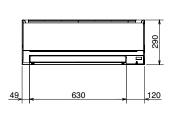


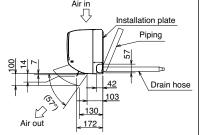
Unit: mm

MSZ-HJ25VA MSZ-HJ35VA MSZ-HJ50VA

INDOOR UNIT



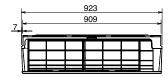


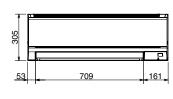


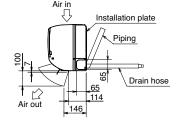


MSZ-HJ60VA MSZ-HJ71VA

INDOOR UNIT







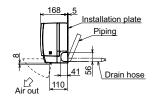


MSZ-SF15VA MSZ-SF20VA

INDOOR UNIT



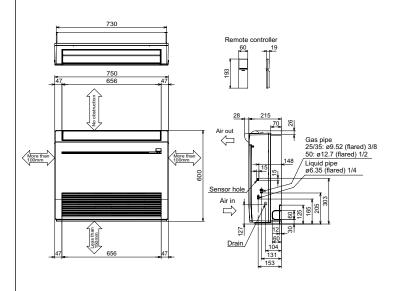






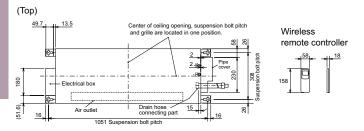
MFZ-KJ25VE MFZ-KJ35VE MFZ-KJ50VE

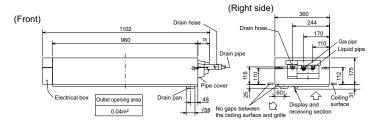
INDOOR UNIT

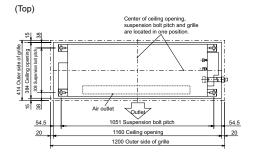


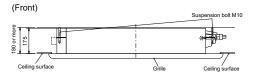
MLZ-KA25VA MLZ-KA35VA MLZ-KA50VA

INDOOR UNIT

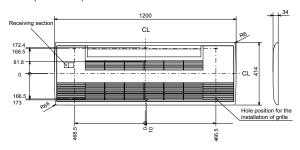








Grille (MLP-440W)



Unit: mm

MUZ-FH25VE MUZ-FH35VE MUZ-FH35VEHZ MUZ-EF25VEH MUZ-EF25VEH MUZ-EF35VEH

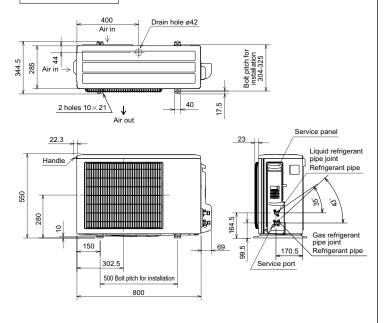
MUZ-EF42VE

MUZ-SF25VE MUZ-SF25VEH MUZ-SF35VE MUZ-SF35VEH MUZ-SF42VEH

MUZ-HJ50VA

MUFZ-KJ25VE MUFZ-KJ35VE MUFZ-KJ35VEHZ

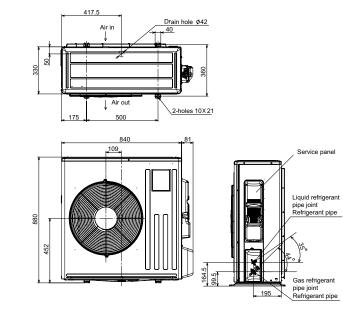
OUTDOOR UNIT



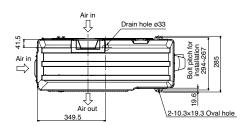
MUZ-FH50VE MUZ-FH50VEHZ MUZ-EF50VE

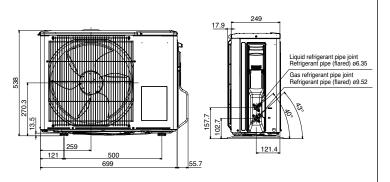
MUZ-SF50VE MUZ-SF50VEH
MUZ-GF60VE MUZ-GF71VE
MUZ-HJ60VA MUZ-HJ71VA
MUFZ-KJ50VE MUFZ-KJ50VEHZ

OUTDOOR UNIT



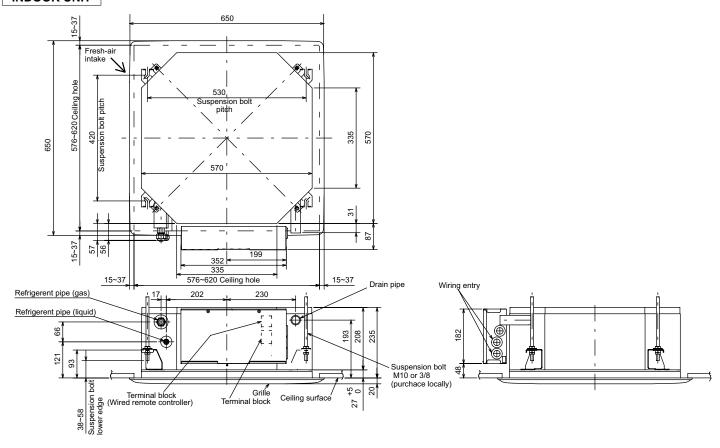
MUZ-HJ25VA MUZ-HJ35VA OUTDOOR UNIT



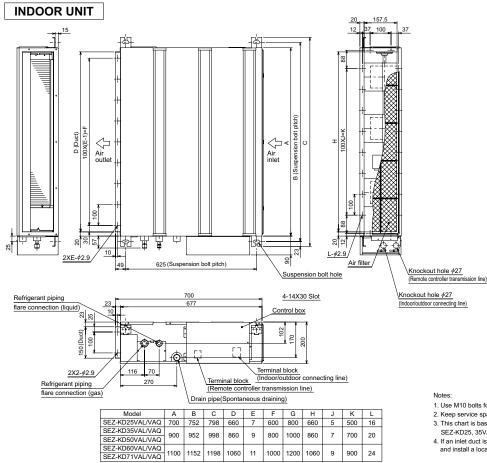


SLZ-KA25VAQ3 SLZ-KA35VAQ3 SLZ-KA50VAQ3 SLZ-KA25VAL3 SLZ-KA35VAL3 SLZ-KA50VAL3

INDOOR UNIT



SEZ-KD25VAQ SEZ-KD35VAQ SEZ-KD50VAQ SEZ-KD60VAQ SEZ-KD71VAQ SEZ-KD25VAL SEZ-KD35VAL SEZ-KD50VAL SEZ-KD60VAL SEZ-KD71VAL



- 1. Use M10 bolts for suspension (purchase locally).
- Keep service space for maintenance at the bottom.
 This chart is based on the SEZ-KD50VAL/VAQ, which has three fans.
- SEZ-KD25, 35VAL/VAQ has two fans, and SEZ-KD60, 71VAL/VAQ has four fans.

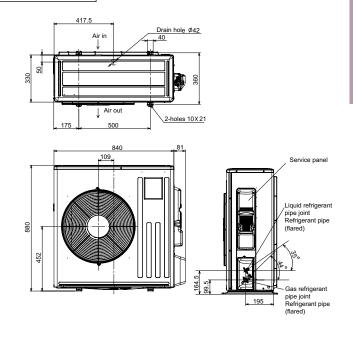
 4. If an inlet duct is used, remove the air filter supplied with the unit, and install a locally purchased filter on the suction side.

Unit: mm

SUZ-KA25VA4 SUZ-KA35VA4 OUTDOOR UNIT

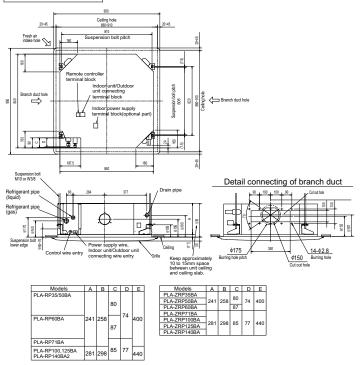
22.3 Air out 2 holes 10X21 Air out 3 hore panel 3 hore panel 4 handle 4 handle 4 handle 5 hore panel 5 hore panel 6 handle 6

SUZ-KA50VA4 SUZ-KA60VA4 SUZ-KA71VA4 OUTDOOR UNIT



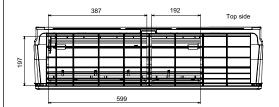
PLA-RP35BA PLA-RP50BA PLA-RP60BA PLA-RP71BA PLA-RP100BA PLA-RP125BA PLA-RP140BA2 PLA-ZRP35BA PLA-ZRP50BA PLA-ZRP71BA PLA-ZRP100BA PLA-ZRP125BA PLA-ZRP140BA

INDOOR UNIT

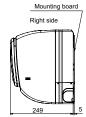


PKA-RP35HAL PKA-RP50HAL

INDOOR UNIT



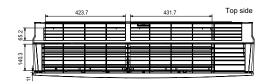


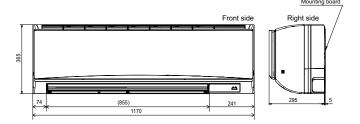


Front side

PKA-RP60KAL PKA-RP71KAL PKA-RP100KAL

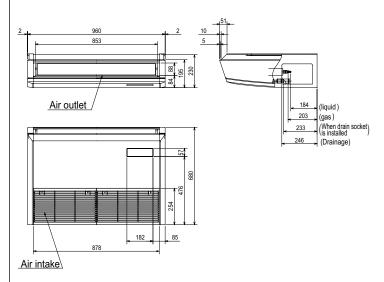
INDOOR UNIT





PCA-RP35KAQ PCA-RP50KAQ

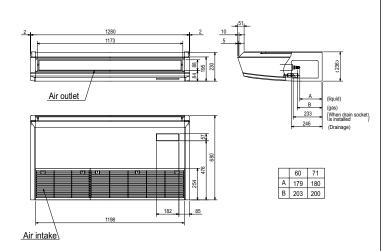
INDOOR UNIT



Unit: mm

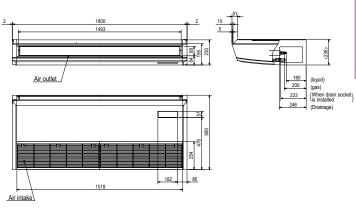
PCA-RP60KAQ PCA-RP71KAQ

INDOOR UNIT



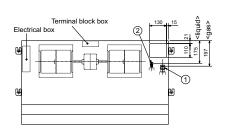
PCA-RP100KAQ PCA-RP125KAQ PCA-RP140KAQ

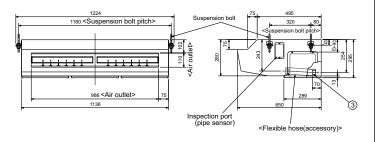




PCA-RP71HAQ

INDOOR UNIT



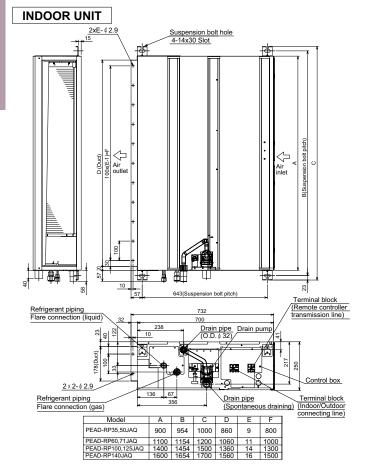


- ①Refrigerant pipe connection(gas pipe side/flared connection)
 ②Refrigerant pipe connection(liquid pipe side/flared connection)
 ③Flexible hose(accessory) —Drainage pipe connection

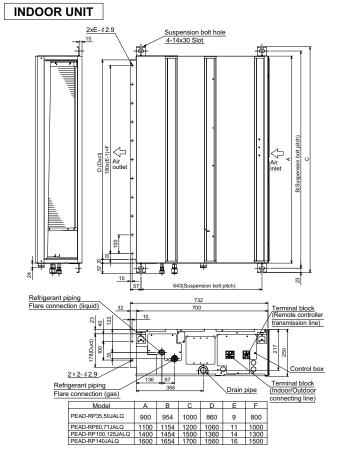
PSA-RP71KA PSA-RP100KA PSA-RP125KA PSA-RP140KA

INDOOR UNIT 130 Front side Metal fixture against overturning 260 129 1900 66 834 ≅ 8 Knockout hole for wiring ϕ 27 (Provided on both sides) 600 Knockout hole for refrigerant and drainage 90×60 oval (Provided on both sides)

PEAD-RP35JAQ PEAD-RP50JAQ PEAD-RP60JAQ PEAD-RP71JAQ PEAD-RP100JAQ PEAD-RP125JAQ PEAD-RP140JAQ

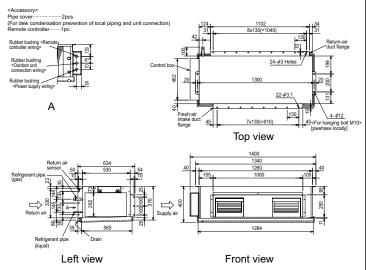


PEAD-RP35JALQ PEAD-RP50JALQ PEAD-RP60JALQ PEAD-RP71JALQ PEAD-RP100JALQ PEAD-RP125JALQ PEAD-RP140JALQ



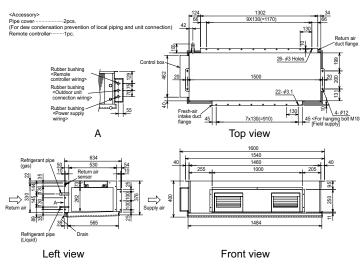
PEA-RP200GAQ

INDOOR UNIT



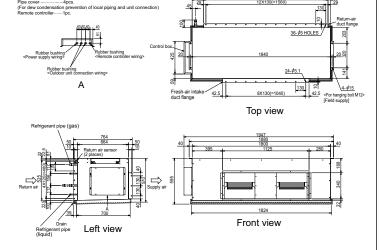
PEA-RP250GAQ

INDOOR UNIT



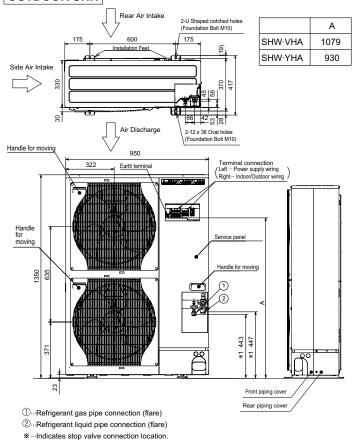
PEA-RP400GAQ PEA-RP500GAQ

INDOOR UNIT



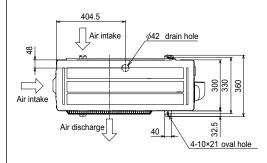
PUHZ-SHW80VHA PUHZ-SHW112VHA PUHZ-SHW112YHA PUHZ-SHW140YHA

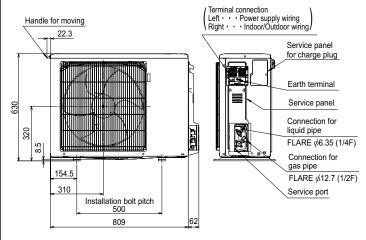
OUTDOOR UNIT



PUHZ-ZRP35VKA PUHZ-ZRP50VKA

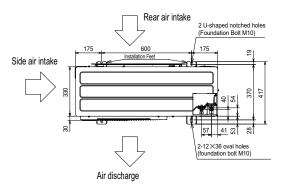
OUTDOOR UNIT

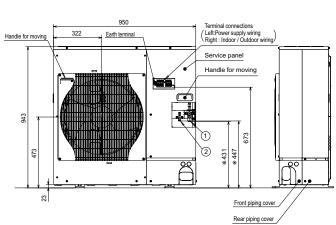




PUHZ-ZRP60VHA PUHZ-ZRP71VHA

OUTDOOR UNIT



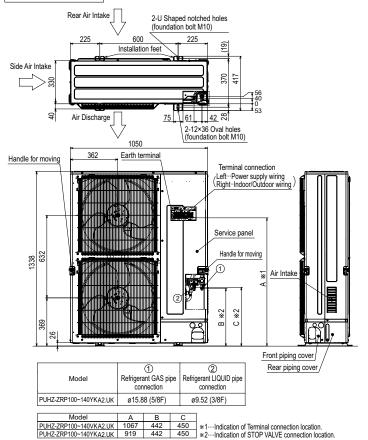


- ①···Refrigerant gas pipe connection (flare)
- ②...Refrigerant liquid pipe connection (flare)

 **...Indicates stop valve connection location.

PUHZ-ZRP100VKA2 PUHZ-ZRP125VKA2 PUHZ-ZRP140VKA2 PUHZ-ZRP100YKA2 PUHZ-ZRP125YKA2 PUHZ-ZRP140YKA2

OUTDOOR UNIT



PUHZ-ZRP200YKA PUHZ-ZRP250YKA

OUTDOOR UNIT Rear Air Intake 2-U shaped notched holes (foundation bolt M10) 600 Installation Feet Side Air Intake 370 417 3<= 8 75 \ 61 \ 42 ≈ Air Discharge 2-12 × 36 Oval holes (foundation bolt M10) 1050 Earth terminal 362 Handle for moving Terminal connection (Left...Power supply wiring Right...Indoor/Outdoor wiring) Service panel Handle for moving 1338 632 Air Intake 985 *3 450 442 369 BRAZING / Front piping cover

(2)

Refrigerant LIQUID pipe

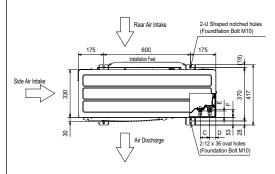
connection

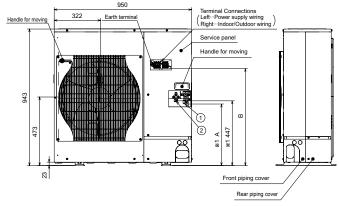
ø9.52 (3/8F)

Rear piping cover

PUHZ-P100VHA4 PUHZ-P100YHA2

OUTDOOR UNIT





- ① ···Refrigerant GAS pipe connection (FLARE)
 ② ···Refrigerant LIQUID pipe connection (FLARE)
 **1 ···Indication of STOP VALVE connection location.

*1...Indication of Terminal connection location

PUHZ-ZRP200YKA.UK ø19.05 (3/4F)

Model

PUHZ-ZRP250YKA.UK

*2···Refrigerant GAS pipe connection (BRAZING) O.Dø25.4. *3···Indication of STOP VALVE connection location.

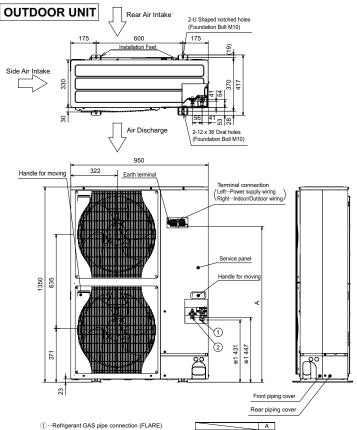
(1)

Refrigerant GAS pipe

connection

ø19.05 (3/4F)

PUHZ-P125VHA3 PUHZ-P140VHA3 PUHZ-P125YHA PUHZ-P140YHA

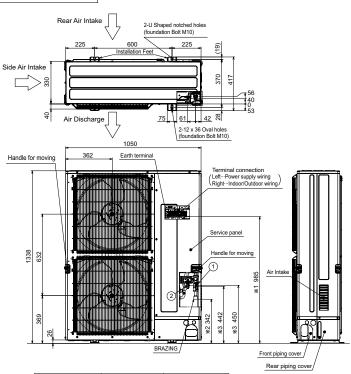


- ② ···Refrigerant LIQUID pipe connection (FLARE) *1 ···Indication of STOP VALVE connection location.

PUHZ-P125/140VHA3 1076 PUHZ-P125/140VHA 994

PUHZ-P200YKA PUHZ-P250YKA

OUTDOOR UNIT

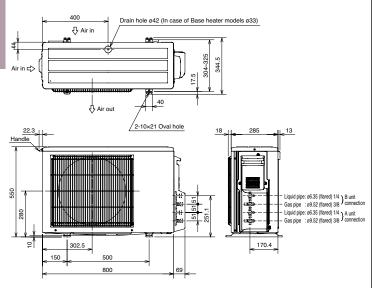


Model	(1) Refrigerant GAS pipe connection	(2) Refrigerant LIQUID pipe connection
PUHZ-P200YKA.UK	ø19.05 (3/4F)	ø9.52 (3/8F)
PUHZ-P250YKA.UK	ø19.05 (3/4F)	ø12.7 (1/2F)

- *1···Indication of Terminal connection location.
 *2···Refrigerant GAS pipe connection (BRAZING) O.Dø25.4.
 *3···Indication of STOP VALVE connection location.

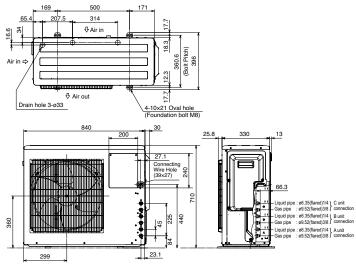
MXZ-2D33VA MXZ-2D42VA MXZ-2D53VA MXZ-2D53VAH MXZ-2HJ40VA

OUTDOOR UNIT



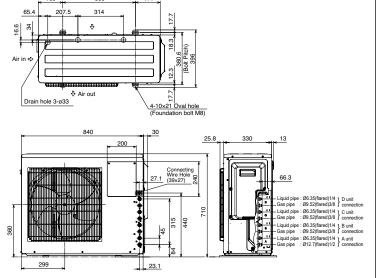
MXZ-3D54VA2 MXZ-3D68VA MXZ-3HJ50VA

OUTDOOR UNIT

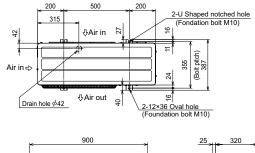


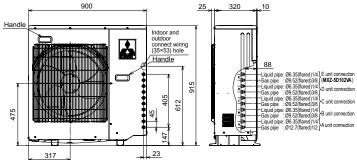
MXZ-4D72VA

OUTDOOR UNIT

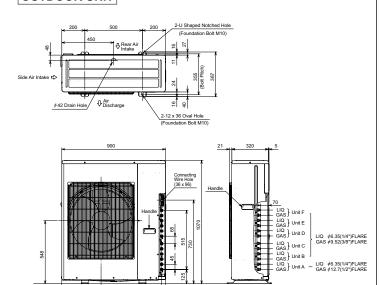


MXZ-4D83VA MXZ-5D102VA OUTDOOR UNIT

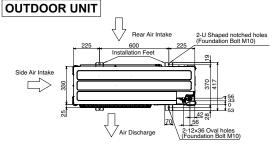


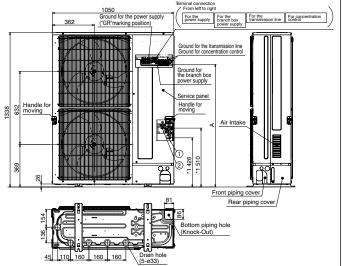


MXZ-6C122VA OUTDOOR UNIT



PUMY-P112/125/140VKM1 PUMY-P112/125/140YKM1





Example of Notes

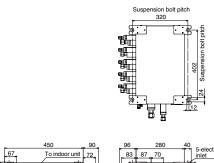
1 ...Refrigerant GAS pipe connection (FLARE) ø15.88 (5/8F) 2 ...Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F) *1 ...Indication of STOP VALVE connection location.

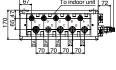
Model	Α
PUMY-P112/125/140VKM1	1062
PUMY-P112/125/140YKM1	909

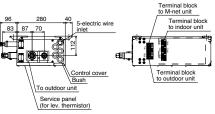
PAC-MK50BC

Suspension bolt: W3/W8 (M10)

Branch box







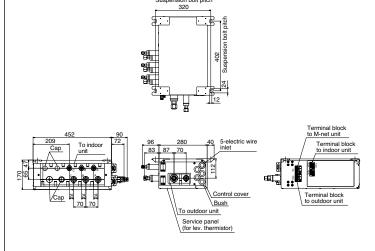
Suspension bolt : W3/8(M10)

ricingerant pipe narea connection										
	Α	В	С	D	Е	To outdoor unit				
Liquid pipe	1/4F	1/4F	1/4F	1/4F	1/4F	3/8F				
Gas pipe	3/8F	3/8F	3/8F	3/8F	1/2F	5/8F				

PAC-MK30BC

Suspension bolt: W3/W8 (M10)

Branch box



Suspension bolt : W3/8(M10)

ricingciant pi	Terrigerant pipe harea connection										
	Α	В	С			To outdoor unit					
Liquid pipe	1/4F	1/4F	1/4F			3/8F					
Gas pipe	3/8F	3/8F	3/8F			5/8F					

Piping Installation

M SERIES Single type

Series	Class	Maximum Piping Length (m)	Maximum Height Difference (m)	Maximum Number of Bends
Gelles	<outdoor unit=""></outdoor>	Total length (A)	Outdoor unit - Indoor unit (H)	Total number
MSZ-F	25 / 35	20	12	10
MFZ-KJ	50	30	15	10
MSZ-E	25 / 35 / 42	20	12	10
	50	30	15	10
MSZ-S	25 / 35 / 42	20	12	10
	50	30	15	10
MSZ-G	60 / 71	30	15	10
MSZ-H	25 / 35 / 50	20	12	10
	60 / 71	30	15	10

S SERIES & P SERIES

Single type

Series	Class	Maximum Piping Length (m)	Maximum Height Difference (m)	Maximum Number of Bends
Selles	<outdoor unit=""></outdoor>	Total length (A)	Outdoor unit - Indoor unit (H)	Total number
ZUBADAN (PUHZ-SHW)	80 / 112 / 140	75	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	25 / 35	20	12	10
(PUHZ-P & SUZ)	50 / 60 / 71	30	30	10
	100 / 125 / 140	50	30	15
	200 / 250	70	30	15

Twin type

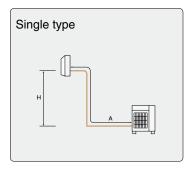
		Max	ximum Piping Length	(m)	Maximum Heigh	Maximum Number of Bends	
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C	Pipe length difference from distribution pipe B-C	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number
ZUBADAN (PUHZ-SHW)	80 / 112 / 140	75	8	20	30	1	15
POWER INVERTER (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 (PUHZ-P)	100 / 125 / 140	50	8	20	30	1	15
	200 / 250	70	8	30	30	1	15

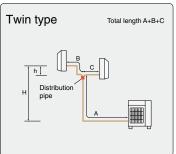
Triple type

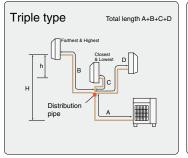
		Ma	ximum Piping Length	(m)	Maximum Heigh	Maximum Number of Bends	
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C+D	Pipe length difference from distribution pipe B-C	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number
POWER INVERTER (PUHZ-ZRP)	140	75	8	20	30	1	15
	200 / 250	100	8	30	30	1	15
STANDARD INVERTER (PUHZ-P)	140	50	8	20	30	1	15
	200 / 250	70	8	28	30	1	15

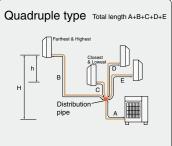
Quadruple type

		Max	ximum Piping Length	(m)	Maximum Heigh	Maximum Number of Bends	
Series	Class <outdoor unit=""></outdoor>	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 (PUHZ-ZRP)	200 / 250	100	8	30	30	1	15
STANDARD INVERTER (PUHZ-P)	200 / 250	70	8	22	30	1	15









MXZ SERIES

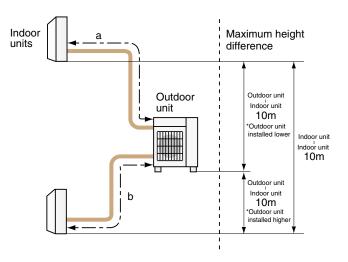
MXZ-2D33VA

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 the 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-2D42VA

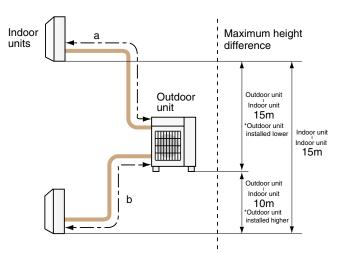
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	20m
Total length (a+b)	30m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b)	20
Total number (a+b)	30

MXZ-2D53VA(H)

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

MXZ-3D54VA2

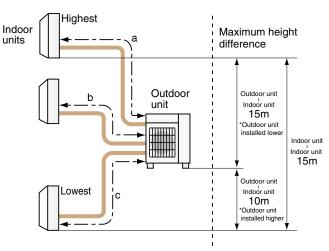
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c)	25m
Total length (a+b+c)	50m

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

MX7-3D68VA

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

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



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

MXZ-4D72VA

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

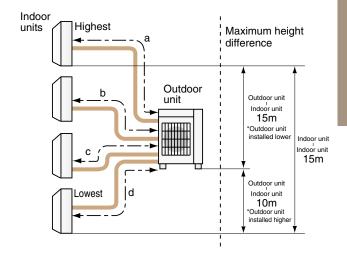
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	60

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

MXZ-4D83VA

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

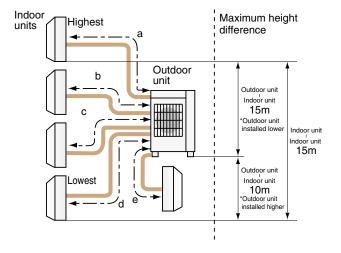
Maximum Number of Bends		
Outdoor unit - Indoor unit (a,b,c,d) 25		
Total number (a+b+c+d)	70	



MXZ-5D102VA

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

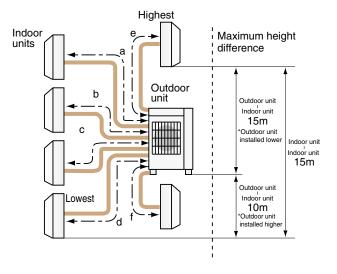
Maximum Number of Bends			
Outdoor unit - Indoor unit (a,b,c,d,e)	25		
Total number (a+b+c+d+e)	80		



MXZ-6C122VA

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	

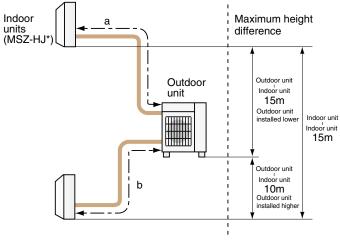


MXZ SERIES

MXZ-2HJ40VA

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		

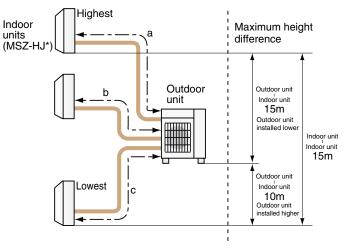


* Only MSZ-HJ model is connectable.

MXZ-3HJ50VA

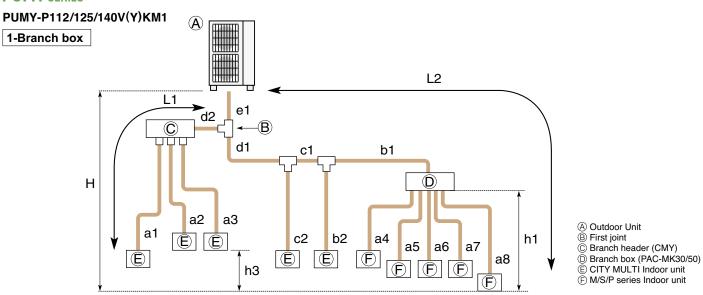
Maximum Piping Length			
Outdoor unit - Indoor unit (a,b,c)	25m		
Total length (a+b+c)	50m		

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



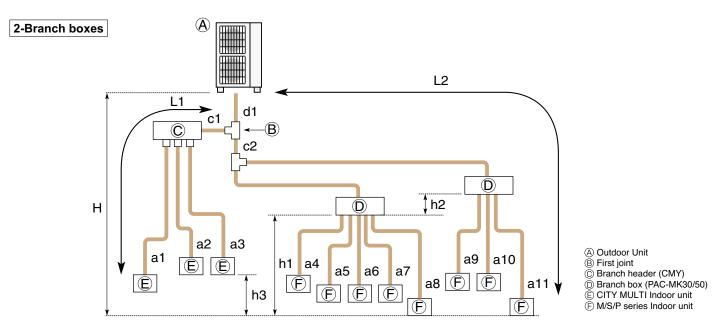
* Only MSZ-HJ model is connectable.

PUMY SERIES



Permissible length	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 ≤ 300 m	
(One-way)	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2 ≦ 85 m	
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8 ≦ 80 m	
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1 ≦ 55 m	
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2 ≦ 30 m	
	Farthest piping length after branch box	a8 ≦ 25 m	
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 95 m	
Permissible height	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)	
difference (One-way)		H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)	
	In branch box/indoor unit section (h1)	h1 ≦ 15 m	
	In each indoor unit (h3)	h3≦12 m	
Number of bends		$ e1+d2+a1 , e1+d2+a2 , e1+d2+a3 , e1+d1+c2 , e1+d1+c1+b1+a5 , e1+d1+c1+b1+a6 , \\ 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.



	-			
Permissible length	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 240 \text{ m}$		
(One-way)	Farthest piping length (L1)	d1 + c1 + a1 ≦ 85 m		
	Farthest piping length. Via Branch box (L2)	$d1 + c2 + b2 + a11 \le 80 \text{ m}$		
Piping length between outdoor unit and branch box		d1 + c2 + b1 + b2 ≦ 55 m		
	Farthest piping length from the first joint	c2 + b2 or c1 + a1 ≤ 30 m		
	Farthest piping length after branch box	a11 ≦ 25 m		
	Farthest branch box from outdoor unit	d1 + c2 + b2 ≦ 55 m		
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 95 m		
Permissible height	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)		
difference		H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)		
(One-way)	In branch box/indoor unit section (h1)	h1 + h2 ≦15 m		
	In each branch unit (h2)	h2 ≦ 15 m		
	In each indoor unit (h3)	h3 ≦ 12 m		
Number of bends		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 \le 15$		

 $^{^{\}star}1$: Branch box should be placed within the level between the outdoor unit and indoor units.

Explanation of Terminology

Maximum piping length:

This is the maximum allowable length of the refrigerant piping. The amount of refrigerant pipe used cannot be longer than the length specified.

Total length:

The maximum allowable combined length of all the refrigerant piping between the outdoor unit and indoor unit(s).

Outdoor Unit - Indoor Unit:

The maximum allowable length of the refrigerant piping between the outdoor unit and indoor units installed when multiple units are connected to a single outdoor unit. This distance limitation refers to the maximum length between the outdoor unit and the farthest indoor unit.

Pipe length difference from distribution pipe:

The maximum allowable difference in refrigerant piping length from the distribution pipe to the farthest indoor unit and from the distribution pipe to the closest indoor unit when multiple indoor units are connected to a single outdoor unit using a distribution pipe.

Indoor Unit - Distribution Pipe:

The maximum allowable length of the refrigerant piping between indoor units and the distribution pipe when multiple indoor units are connected to a single outdoor unit.

Maximum height difference:

This is the maximum allowable height difference. It is necessary to install the air conditioning system so that the height distance is no more than the difference specified. (Specified differences may vary if the outdoor unit is installed higher or lower than the indoor units).

Outdoor unit - Indoor unit:

The maximum allowable difference in height between the outdoor unit and indoor units when installed (when multiple indoor units are connected to a single outdoor unit, this distance limitation refers to the maximum height difference between the outdoor unit and an indoor unit).

Indoor unit - Indoor unit:

The maximum allowable difference between the heights of indoor units when multiple indoor units are connected to a single outdoor unit.

Maximum number of bends:

This is the maximum allowable number of bends in the refrigerant piping. The total number of bends in the refrigerant piping used cannot exceed the number specified.

Total number:

The maximum allowable number of bends for all refrigerant piping between the outdoor unit and indoor units.

Outdoor unit - Indoor unit:

The maximum allowable number of bends between the outdoor unit and each indoor unit when multiple indoor units are connected to a single outdoor unit.



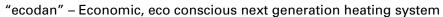






ECODAN

"ecodan" can heat rooms and supply domestic hot water, realising greater comfort and energy saving.



Both energy-saving and safe for the environment, the Mitsubishi Electric ecodan incorporates a highly efficient heat pump system that captures "the heat in the air", a renewable energy resource. Equipped with advanced inverter control, meticulous temperature control assures comfortable heating, and its space-saving "All-in-one" indoor unit is easy to install. These energy-saving, high comfort and simple installation characteristics have drawn the ecodan heating system into the spotlight centre stage.

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

INDOOR UNIT

OUTDOOR UNIT

Hydro box, cylinder unit



EHST20C/EHPT20X

Packaged type Small capacity (Under 5kW) Medium capacity (7.5kW—14kW) Large capacity PUHZ-HW112/140 POWER INVERTER

Reversible hydro box (heating/cooling)



ERSC

				1 1 1
	PUHZ-W50	PUHZ-W85	PUHZ-W112	
Split type	Small capacity (Under 5kW)	Medium cap	pacity (7.5kW-14kW)	Large capacity
ZUBADAN New Generation			PUHZ-SHW80/112/140	PUHZ-SHW230
POWER INVERTER	PUHZ-SW40/50	PUHZ-SW75	PUHZ-SW100/120	PUHZ-SW160/200
eco INVERTER	SUHZ-SW45	101/2 00/7 0	13/2 54/100/120	1012 01100/200
Mr.SLIM+		PUHZ-FRP71		

Unique technology of ecodan

Auto Adaptation

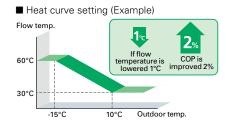
Maximize energy savings while keeping comfort at all times



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

Aiming to realise further comfort and energy savings, Mitsubishi Electric is proud to introduce a revolutionary new system control. This is based on data indicating that a 1°C drop in the flow temperature improves the coefficient of performance (COP) of the ATW system by 2%. This means that energy savings are dramatically affected by controlling the flow temperature in the system.

In conventional system control, the flow temperature is determined based on the preset heat curve depending on the actual outdoor temperature. However, this requires a complicated setting to achieve the optimal heat curve.



Mitsubishi Electric's Auto Adaptation function automatically tracks changes of the actual roomtemperatures and outdoor temperatures and adjusts the flow temperature accordingly.

Our more evolutionally 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.

Future room temperature estimation

Room temp.

(a) Higher than the target room temp.

(b) Approximately same as the target temp.

(c) Lower than the target room temp.

Addify the flow temperature by comparing actual and estimated room temperature.

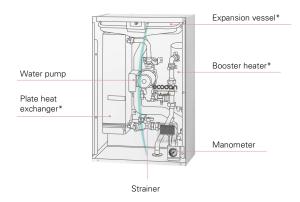
Indoor units

New all-in-one compact indoor unit

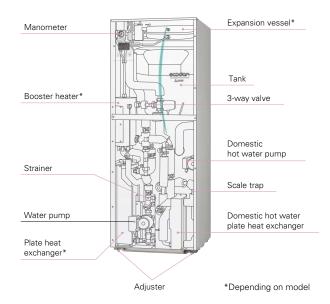
Easy to install and low maintenance

- All-in-one: Key functional components are incorporated
- Compact cylinder unit: Just 1600mm height
- Compact hydro box: only 600×600mm 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)

Compact hydro box unit



Compact cylinder unit



Designed for Optimal Heating

ZUBADAN New Generation (Split type)

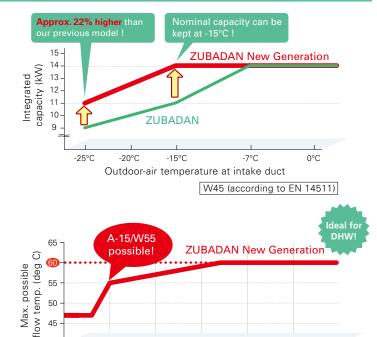
Improved heating performance more efficiently



10°C

ZUBADAN is equipped with a unique "Flash Injection Circuit" that enables the system to provide powerful heating in cold regions during the winter months. And more evolved "ZUBADAN New Generation" incorporates a new compressor that is more efficient, further improving heating performance when outdoor temperatures is low. The rated heating capacity can now be maintained at -15°C even including defrost, making it possible to supply comfortable heating in ever more severe environments.





Outdoor temp.

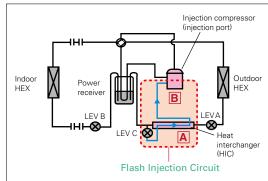
Mitsubishi Electric's Flash Injection Technology The Key to High Heating Performance at Low Outdoor Temperatures

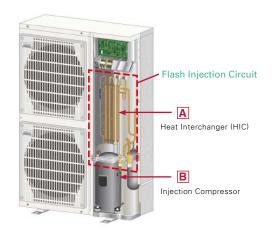
-20°C

■Flash Injection Circuit

Refrigerant

ZUBADAN New Generation





The Flash Injection Circuit is an original technology developed by Mitsubishi Electric. A heat exchange process at point A (heat interchanger) transforms liquid refrigerant into a two-phase, gas-liquid state and then compresses the gas-liquid refrigerant at point B (injection compressor). This circuit secures a enough flow rate of refrigerant for heating when outdoor temperatures are very low.

In the ZUBADAN New Generation, the Flash Injection Circuit is more powerful by improving the heat interchanger to increase the heat-exchange-efficiency and incorporating new injection compressor to increase the compression-efficiency.

These two improvements of ZUBADAN New Generation ensure reliable, efficient heating operation when outdoor temperatures are very low.

SD* CARD

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

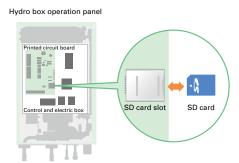
For easier settings and data logging



*SD logo is a trademar

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. 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 a installation field, a remarkable reduction in set-up time has been achieved. Thus, it is ideal way for busy installers.

*SD card function is only used at the time of installation



Settings can be performed easily and logging operation data saved to SD card can be confirmed via personal computer.



Items that can be preset

Simply copying preset data to a 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)
- Summer time settings
- 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 (2GB).

- Consumed electrical energy
- Delivered energy
- Flow rate
- Operation time
- Defrost time
- Actual temperature
 - Room temperature
 - Flow temperatureReturn temperature
 - Domestic hot water temperature
 - Outdoor temperature
- Error record
- Input signal
- Etc.

Remote controller

Smart user-friendly controller with stylish design

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

Wireless remote controller (optional)

- Built-in room temperature sensor; easy to place in the best position to detect room temperature
- Wiring work eliminated
- Simple design that is easy to operate
- Remote control from any room without needing to choose an installation location
- Backlight and big buttons that are easy to operate
- Domestic hot water boost and cancellation
- Simplified holiday mode



Main controller



PAR-WR51R-E (Option)



PAR-WT50R-E (Option) Wireless remote controller

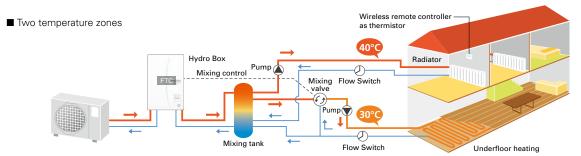
Two zone control

Simultaneously making two different temperature zones assures more comfortable, highly convenient heating



*SD logo is a tradema

ecodan makes it possible to set two temperatures which are used in two different types heat emitters in a system. The system allows adjustment of temperatures when different room temperatures are required, such as a temperature of 40°C for the living room radiator and temperature of 30°C for floor heating. Additionally, the scheduling for each zone can be set separately by main controller.



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

Intelligent boiler interlock

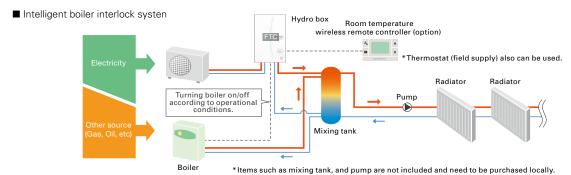
No need to replace existing boiler Automatic switchover enables even more efficient operation



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

The flexibility of ecodan's intelligent control allows the system to be combined with boiler currently in use. Additionally, this control can judge which heating source (ecodan, or boiler) to be operated according to situations (outdoor temperature, running cost, CO2 emission level etc.). Customers using a boiler can receive the energy-saving performance of ecodan.

Intelligent system combining a boiler with ecodan



Multiple unit control

Connect up to 6 units-

Automatic control of multiple units to supply bigger capacity

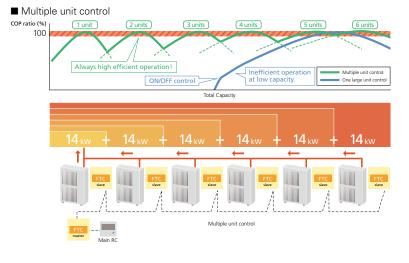


*SD logo is a trademark of SD-3C, LLC

A maximum of 6 ecodan units* can be configured according to the required 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 works to balance the running hours without depending on the operation of any one specific unit.

If one of the units malfunctions when using Multiple Unit Control, another unit can be automatically operated for back-up, thereby preventing system operation from stopping completely.

*Only same models (same capacity) can be used



Split type specifications

Indoor unit

indoor ur	IIL														♦WRAS	♦WRAS
<cylinder td="" uni<=""><td>t></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>APPROTED PRODUCT</td><td>APPROTED PRODUCT</td></cylinder>	t>														APPROTED PRODUCT	APPROTED PRODUCT
Model name				EHST20C- VM2C	EHST20C- VM6C	EHST20C- YM9C	EHST20C- TM9C	EHST20C- VM2EC	EHST20C- VM6EC	EHST20C- YM9EC	EHST20C- MEC	EHST20D- VM2C	EHST20D- MEC	EHST20D- MHC	EHST20C- MHCW*2	EHST20D- MHCW*2
		Туре							H	leating onl	У				•	
		Immersion heater		-	-	-	-	-	-	-	-	-	-	×	×	×
		Expansion vessel		×	×	×	×	-	-	-	-	×	-	×	×	×
		Booster heater		×	×	×	×	×	×	×	-	×	-	-	-	-
Dimensions		H×W×D	mm					•	16	600×595×6	80				•	
Weight (empty)			kg	110	111	112	112	104	105	106	103	103	96	103	110	103
Power supply (V / Phase / Hz)							•	2	30/Single/	50	•	•		•	•
Heater	Booster	Power supply (V/Pha	se/Hz)	230/Sir	ngle/50	400/Three/50	230/Three/50	230/Sir	ngle/50	400/Three/50	-	230/Single/50		- - -		
	heater	Capacity	kW	2	6 (2/4/6)	9 (3/6/9)	9 (3/6/9)	2	6 (2/4/6)	9 (3/6/9)	-	2			_	
		Current	Α	9	26	13	23	9	26	13	-	9			_	
		Breaker size	Α	16	32	16	32	16	32	16	-	16			_	
	Immersion	Power supply (V/Pha	se/Hz)				•	-	-		•	•		2	30/Single/	50
	heater	Capacity	kW					-	-						3	
		Current	Α					-	-						13	
		Breaker size	А					-	-						16	
Domestic hot water tank	Volume / M	aterial	L/-						200	/ Stainless	steel					
Guaranteed	Ambient		°C							0~35						
operating range*1	Outdoor		°C						See outo	door unit s	pec table					
Target	Heating	Room temperature	°C							10~30						
temperature		Flow temperature	°C							25~60						
range	DHW		°C							40~60						
	Legionella p	orevention	°C							60~70						
Sound pressure	level (SPL)		dB (A)							28						

^{*1} The environment must be frost-free *2 UK model

<Hvdro box>

Model name				EHSD- MEC	EHSD- VM2C	EHSC- MEC	EHSC- VM2C	EHSC- VM2EC	EHSC- VM6C	EHSC- VM6EC	EHSC- YM9C	EHSC- YM9EC	EHSC- TM9C	ERSD- VM2C	ERSC- MEC	ERSC- VM2C
		Туре						Heatir	ng only					Heat	ing and c	ooling
		Immersion heater		-	-	-	-	-	-	-	-	-	-	-	-	-
		Expansion vessel		-	×	-	×	-	×	-	×	-	×	×	-	×
		Booster heater		-	×	-	×	×	×	×	×	×	×	×	-	×
Dimensions		H×W×D	mm						8	00×530×36	60					•
Weight (empty	y)		kg	38	44	42	48	43	49	44	49	44	49	45	43	49
Power supply (V/Phase / Hz) 230/Single/50 Heater Booster Power supply (V/Phase / Hz) - 230/Single/50 - 230/Single/50 400/Three/50 230/Three/50 23																
Heater		Power supply (V/Pha	ise / Hz)	-	230/Single/50	-		230/Si	ngle/50		400/TI	ree/50	230/Three/50	230/Single/50	-	230/Single/50
	heater	Capacity	kW	-	2	-	2	2	6 (2/4/6)	6 (2/4/6)	9 (3/6/9)	9 (3/6/9)	M9EC TM9C VM2C He - - - - × × × × × 44 49 45 v/50 230/Three/50 230/Single	2	-	2
		Current	Α	-	9	-	9	9	26	26	13	13	23	9	-	9
		Breaker size	Α	-	16	-	16	16	32	32	16	16	32	16	-	16
Heater Bh	Ambient		°C				-			0~35				-		-
	Outdoor	Heating	°C						See outo	loor unit s	pec table					
range .		Cooling	°C						-							unit spec table im 10°C*2)
Target	Heating	Room temperature	°C							10~30					### MEC eating and co	
temperature range		Flow temperature	°C							25~60						
range	Cooling	Room temperature	°C							-						
		Flow temperature	°C						-						MEC asting and cx	
Sound pressu	re level (SPL)	•	dB (A)							28						

^{*1} The environment must be frost-free

Outdoor unit

Model name	e			SUHZ- SW45VA (H)*1	PUHZ- SW40VHA (-BS)	PUHZ- SW50VHA (-BS)	PUHZ- SW75VHA (-BS)	PUHZ- SW100V/YHA (-BS)	PUHZ- SW120V/YHA (-BS)	PUHZ- SHW80VHA	PUHZ- SHW112V/YHA	PUHZ- SHW140YHA	PUHZ- SHW230YKA*2 *3
Dimensions	H>	<w×d< td=""><td>mm</td><td>880×840×330</td><td>600×800×300</td><td>600×800×300</td><td>943×950×330</td><td>1350×950×330</td><td>1350×950×330</td><td>1350×950×330</td><td>1350×950×330</td><td>1350×950×330</td><td>1338×1050×330</td></w×d<>	mm	880×840×330	600×800×300	600×800×300	943×950×330	1350×950×330	1350×950×330	1350×950×330	1350×950×330	1350×950×330	1338×1050×330
Product wei	ght (empt	y)	kg	54	42	42	75	118/130	118/130	120	120/134	134	148
Power supp	ly (V / Pha	ise / Hz)				•	VHA:2	30/Single/50	YHA, YKA : 400/	Three/50			
Heating	Capacity	,	kW	4.50	4.10	6.00	8.00	11.20	16.00	8.00	11.20	14.00	23.00
(A7/W35)	COP			5.06	4.80	4.42	4.40	4.45	4.10	4.65	4.46	4.22	3.65
	Power in	put	kW	0.89	0.85	1.36	1.82	2.52	3.90	1.72	2.51	3.32	6.31
Heating	Capacity		kW	3.50	4.00	5.00	7.50	10.00	12.00	8.00	11.20	14.00	23.00
(A2/W35)	COP			3.40/3.04	3.24	2.97	3.40	3.32	3.24	3.55	3.34	2.96	2.37
	Power in	put	kW	1.03/1.15	1.24	1.68	2.21	3.01	3.70	2.25	3.35	4.73	9.69
Cooling	Capacity		kW	-	3.60	4.50	6.60	9.10	12.50	7.10	10.00	12.50	20.00
(A35/W7)	EER			-	2.71	2.38	2.55	2.75	2.32	3.31	2.83	2.17	2.22
	Power in	put	kW	-	1.33	1.89	2.59	3.31	5.38	2.15	3.53	5.76	9.01
Cooling	Capacity		kW	-	3.60	5.00	7.10	10.00	14.00	7.10	10.00	12.50	20.00
(A35/W18)	EER			-	4.65	3.96	4.01	4.35	4.08	4.52	4.74	4.26	3.55
	Power in	put	kW	-	0.77	1.26	1.77	2.30	3.43	1.57	2.11	2.93	5.64
Sound pressure	Heating		dB (A)	52	45	46	51	54	54	51	52	52	59
level (SPL)	Cooling		dB (A)	52	45	46	48	50	51	50	51	51	58
Sound power level (PWL)	Heating		dB (A)	61	62	63	69	70	72	69	70	70	76
Operating c	urrent (ma	ax)	Α	12.0	13.0	13.0	19.0	29.5/13.0	29.5/13.0	29.5	35.0/13.0	13.0	26.0
Breaker size	1		Α	20	16	16	25	32/16	32/16	32	40/16	16	32
Piping	Diameter	Liquid/Gas	mm	6.35/12.7	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	9.52/25.4
	Max. length	Out-In	m	15	40	40	40	75	75	75	75	75	80
	Max. height	Out-In	m	15	10	10	10	30	30	30	30	30	30
Guaranteed	Heating		°C	-15 to +24	-15 to +21	-15 to +21	-20 to +21	-20 to +21	-20 to +21	-25 to +21	-25 to +21	-25 to +21	-25 to +21
operating range	DHW		°C	-15 to +35	-15 to +35	-15 to +35	-20 to +35	-20 to +35	-20 to +35	-25 to +35	-25 to +35	-25 to +35	-25 to +35
. a.i.go	Cooling*	÷4	°C	-	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46

Note: based on EN 14511 (Input to circulation pump is not included.) It may differ according to the system configuration.

*1 SUHZ-SW45VAH incorporates base heater.

*3 The performance data is obtain when plate heat exchanger (ACH 70-40) are connected.

^{*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.

^{*2} PUHZ-SHW230YKA can not be connected to ecodan indoor unit.

^{*4} Optional air protection guide is required where ambient temperature is lower than -5°C.

Optional parts
<Indoor unit (Cylinder unit)>

Parts name	Model name	Specification	EHST20C- VM2C	EHST20C- VM6C	EHST20C- YM9C	EHST20C- TM9C	EHST20C- VM2EC	EHST20C- VM6EC	EHST20C- YM9EC	EHST20C- MEC	EHST20D- VM2C	EHST20D- MEC	EHST20D- MHC	EHST20C- MHCW	EHST20D- MHCW
Wirelss remote controller	PAR-WT50R-E		×	×	×	×	×	×	×	×	×	×	×	×	×
Wirelss receiver	PAR-WR51R-E		×	×	×	×	×	×	×	×	×	×	×	×	×
Thermistors	PAC-SE41TS-E	For room temp.	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-TH011-E	For buffer and zone (flow and return temp.)	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-TH011TK-E	For tank temp. (5m)	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-TH011TKL-E	For tank temp. (30m)	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-TH011HT-E	For boiler (flow and return temp.)	×	×	×	×	×	×	×	×	×	×	×	×	×
Immersion heater	PAC-IH03V2-E	1Ph 3kW	×	×	×	×	×	×	×	×	×	×	-	-	-
EHPT accessories for UK	PAC-WK01UK-E		-	-	-	-	-	-	-	-	-	-	-	×	×
Wi-Fi interface	PAC-WF010-E		×	×	×	×	×	×	×	×	×	×	×	×	×

<Indoor unit (Hydro unit)>

Parts name	Model name	Specification	EHSD- MEC	EHSD- VM2C	EHSC- MEC	EHSC- VM2C	EHSC- VM2EC	EHSC- VM6C	EHSC- VM6EC	EHSC- YM9C	EHSC- YM9EC	EHSC- TM9C	ERSD- VM2C	ERSC- MEC	ERSC- VM2C
Wirelss remote controller	PAR-WT50R-E		×	×	×	×	×	×	×	×	×	×	×	×	×
Wirelss receiver	PAR-WR51R-E		×	×	×	×	×	×	×	×	×	×	×	×	×
Thermistors	PAC-SE41TS-E	For room temp.	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-TH011-E	For buffer and zone (flow and return temp.)	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-TH011TK-E	For tank temp. (5m)	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-TH011TKL-E	For tank temp. (30m)	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-TH011HT-E	For boiler (flow and return temp.)	×	×	×	×	×	×	×	×	×	×	×	×	×
Joint pipe	PAC-SH30RJ-E	For PUHZ-SW40/50VHA (-BS) ø9.52→ ø6.35	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-SH50RJ-E	For PUHZ-SW40/50VHA (-BS) ø15.88→ ø12.70	×	×	×	×	×	×	×	×	×	×	×	×	×
Wi-Fi interface	PAC-WF010-E		×	×	×	×	×	×	×	×	×	×	×	×	×

<Outdoor unit>

Parts name	Model name	Standard Inverter		Р	ower invert	er			ZUBA	DAN	
		SUHZ- SW45VA(H)	PUHZ- SW40VHA(-BS)	PUHZ- SW50VHA(-BS)	PUHZ- SW75VHA(-BS)	PUHZ- SW100V/YHA(-BS)	PUHZ- SW125V/YHA(-BS)	PUHZ- SHW80VHA	PUHZ- SHW112V/YHA	PUHZ- SHW140YHA	PUHZ- SHW230YKA*1
Connector for drain hose heater signal output	PAC-SE60RA-E	×	×	×	×	×	×	×	×	×	×
Air discharge guide	MAC-886SG-E	×	-	-	-	-	-	-	-	-	-
	PAC-SG58SG-E	-	×	×	-	-	-	-	-	-	-
	PAC-SG59SG-E	-	-	-	×	×	×	×	×	×	-
	PAC-SG96SG-E	-	-	-	-	-	-	-	-	-	×
Air protection guide	PAC-SG56AG-E	-	×	×	-	-	-	-	-	-	-
	PAC-SH63AG-E	-	-	-	×	×	×	×	×	×	-
	PAC-SH95AG-E	-	-	-	-	-	-	-	-	-	×
Drain socket	PAC-SG61DS-E	-	-	-	×	×	×	-	-	-	-
	PAC-SH71DS-E	-	×	×	-	-	-	-	-	-	-
Centralised drain pan	PAC-SG63DP-E	-	×	×	-	-	-	-	-	-	-
	PAC-SG64DP-E	-	-	-	×	×	×	×	×	×	-
Control/Service tool	PAC-SK52ST	×	×	×	×	×	×	×	×	×	×

^{*1} PUHZ-SHW230YKA can be used for ATW.

<Interface/Flow temperature control>

Parts name	Model name	Description	Standard Inverter		Р	ower invert	er		SHW80VHA SHW112V/YHA SHW11		ADAN	
			SUHZ- SW45VA(H)	PUHZ- SW40VHA(-BS)	PUHZ- SW50VHA(-BS)	PUHZ- SW75VHA(-BS)	PUHZ- SW100V/YHA(-BS)	PUHZ- SW125V/YHA(-BS)			PUHZ- SHW140YHA	PUHZ- SHW230YKA*1
Capacity step control interface	PAC-IF011B-E	1 PC Board w/ Case	×	×	×	×	×	×	×	×	×	×
Flow temperature controller	PAC-IF032B-E	1 PC Board w/ Case	×	×	×	×	×	×	×	×	×	×
System controllers	PAC-IF061B-E	1 PC Board w/ Case	×	×	×	×	×	×	×	×	×	×
	PAC-IF062B-E	1 PC Board w/ Case	×	×	×	×	×	×	×	×	×	×
	PAC-SIF061B-E	1 PC Board w/ Case	×	×	×	×	×	×	×	×	×	×

^{*1} PUHZ-SHW230YKA can be used for ATW.

Packaged type specifications

Indoor unit

<Cylinder unit>



Model name				EHPT20X-VM2C	EHPT20X-VM6C	EHPT20X-YM9C	EHPT20X-TM9C	EHPT20X-MHCW*2
		Туре				Heating only		
		Immersion heater		-	-	-	-	×
		Expansion vessel		×	×	×	×	×
		Booster heater		×	×	×	×	-
Dimensions		H×W×D	mm			1600×595×680		
Weight (empty)			kg	98	99	100	100	98
Power supply (V / Phase / Hz)					230/Single/50		
Heater	Booster	Power supply (V/Pha	se / Hz)	230/Sir	ngle/50	400/Three/50	230/Three/50	-
	heater	Capacity	kW	2	6 (2/4/6)	9 (3/6/9)	9 (3/6/9)	-
		Current	Α	9	26	13	23	-
		Breaker size	Α	16	32	16	32	-
	Immersion	Power supply (V/Pha	se/Hz)	-	-	-	-	230/Single/50
	heater	Capacity	kW	-	-	-	-	3
		Current	Α	-	-	-	-	13
		Breaker size	Α	-	-	-	-	16
Domestic hot water tank	Volume / M	aterial	L/-			200 / Stainless steel		
Guaranteed	Ambient		°C			0~35		
operating range*1	Outdoor		°C			See outdoor spec table		
Target	Heating	Room temperature	°C			10~30		
temperature		Flow temperature	°C			25~60		
range	DHW		°C			40~60		
	Legionella p	prevention	°C			60~70		
Sound pressure	e level (SPL)		dB (A)			28		

^{*1} The environment must be frost-free *2 UK model

<Hydro box>

Model name				EHPX-VM2C	EHPX-YM9C
		Туре		Heating	g only
		Immersion heater		-	-
		Expansion vessel		×	×
		Booster heater		×	×
Dimensions		H×W×D	mm	800×53	0×360
Weight (empty)		-	kg	37	38
Power supply (\	//Phase/Hz)			230/Sin	gle/50
Power supply (V Heater	Booster	Power supply (V/Pha	se/Hz)	230/Single/50	400/Three/50
	heater	Capacity	kW	2	9 (3/6/9)
		Current	Α	9	13
		Breaker size	Α	16	5
Guaranteed	Ambient		°C	0~3	35
operating range*1	Outdoor		°C	See outdoor	spec table
Target temper-	Heating	Room temperature	°C	10~	30
ature range		Flow temperature	°C	25~	60
Sound pressure	level (SPL)		dB (A)	28	3

^{*1} The environment must be frost-free

Outdoor unit

			1	ı				
Model name			PUHZ-W50VHAR2 (-BS)	PUHZ-W85VHAR2 (-BS)	PUHZ-W112VHA (-BS)	PUHZ-HW112YHA2 (-BS)	PUHZ-HW140VHA2 (-BS)	PUHZ-HW140YHA2 (-BS)
Dimensions	H×W×D	mm	740×950×330	943×950×330	1350×1020×330	1350×1020×330	1350×1020×330	1350×1020×330
Product weight	(empty)	kg	64	79	133	148	134	148
Power supply (V	/ / Phase / Hz)		230/Single/50	230/Single/50	230/Single/50	400/Three/50	230/Single/50	400/Three/50
Heating	Capacity	kW	5.00	9.00	11.20	11.20	14.00	14.00
(A7/W35)	COP		4.10	4.18	4.47	4.42	4.25	4.25
	Power input	kW	1.22	2.15	2.51	2.53	3.29	3.29
Heating	Capacity	kW	5.00	8.50	11.20	11.20	14.00	14.00
(A2/W35)	COP		3.13	3.17	3.34	3.11	3.11	3.11
	Power input	kW	1.60	2.68	3.35	3.60	4.50	4.50
Sound pressure level (SPL)	Heating	dB (A)	46	48	53	53	53	53
Sound power level (PWL)	Heating	dB (A)	61	66	69	67	67	67
Operating curren	nt (max)	Α	13.0	23.0	29.5	13.0	35.0	13.0
Breaker size		Α	16	25	32	16	40	16
Guaranteed	Heating	°C	-15~21	-20~21	-20~21	-25~21	-25~21	-25~21
operating range	DHW	°C	−15~35	-20~35	-20~35	-25~35	-25~35	-25~35

Note: based on EN 14511 (Input to circulation pump is included.)

It may differ according to the system configuration.

Optional parts <Indoor unit>

Parts name	Model name	Specification			Cylinder unit			Hydro	box
			EHPT20X-VM2C	EHPT20X-VM6C	EHPT20X-YM9C	EHPT20X-TM9C	EHPT20X-MHCW	EHPX-VM2C	EHPX-YM9C
Wireless remote controller	PAR-WT50R-E		×	×	×	×	×	×	×
Wireless receiver	PAR-WR51R-E		×	×	×	×	×	×	×
Thermistors	PAC-SE41TS-E	For room temp.	×	×	×	×	×	×	×
	PAC-TH011-E	For buffer and zone (flow and return temp.)	×	×	×	×	×	×	×
	PAC-TH011TK-E	For tank temp. (5m)	×	×	×	×	×	×	×
	PAC-TH011TKL-E	For tank temp. (30m)	×	×	×	×	×	×	×
	PAC-TH011HT-E	For boiler (flow and return temp.)	×	×	×	×	×	×	×
Immersion heater	PAC-IH03V2-E	1Ph 3kW	×	×	×	×	-	-	_
EHPT accessories for UK	PAC-WK01UK-E		-	-	-	-	×	-	-
Wi-Fi interface	PAC-WF010-E		×	×	×	×	×	×	×

<Outdoor unit>

Parts name	Model name		Power inverter			ZUBADAN	
		PUHZ- W50VHA2(-BS)	PUHZ- W85VHA2(-BS)	PUHZ- W112VHA (-BS)	PUHZ- HW112YHA2(-BS)	PUHZ- HW140VHA2(-BS)	PUHZ- HW140YHA2(-BS)
Connector for drain hose heater signal output	PAC-SE60RA-E	×	×	×	×	×	×
Air discharge guide	PAC-SG59SG-E	×	×	×	×	×	×
Air protection guide	PAC-SH63AG-E	×	×	×	×	×	×
Drain socket	PAC-SG61DS-E	×	×	×	-	-	-
Centralised drain pan	PAC-SG64DP-E	×	×	-	-	-	-
Control/Service tool	PAC-SK52ST	-	-	-	-	-	-

<Interface/Flow temperature control>

antended) for temperature controls									
Parts name	Model name	Description		Power inverter		ZUBADAN			
			PUHZ- W50VHA2(-BS)	PUHZ- W85VHA2(-BS)	PUHZ- W112VHA (-BS)	PUHZ- HW112YHA2(-BS)	PUHZ- HW140VHA2(-BS)	PUHZ- HW140YHA2(-BS)	
Capacity step control interface	PAC-IF011B-E	1 PC Board w/ Case	×	×	×	×	×	×	
Flow temperature controllers	PAC-IF032B-E	1 PC Board w/ Case	×	×	×	×	×	×	
System controllers	PAC-IF061B-E	1 PC Board w/ Case	×	×	×	×	×	×	
	PAC-IF062B-E	1 PC Board w/ Case	×	×	×	×	×	×	
	PAC-SIF061B-E	1 PC Board w/ Case	×	×	×	×	×	×	

Combination table

Туре	Model name			Spli	t type				
		P	OWER INVERT	ER		ZUBADAN	eco INVERTER		
		PUHZ- W50VHA	PUHZ- W85VHA2	PUHZ- W112VHA	PUHZ- HW112YHA2	PUHZ- HW140VHA2	PUHZ- HW140YHA2	SUHZ- SW45VA(H)	PUHZ- SW40VHA
	EHST20C-VM2C								
	EHST20C-VM6C								
	EHST20C-YM9C								
	EHST20C-TM9C								
	EHST20C-VM2EC								
	EHST20C-VM6EC								
	EHST20C-VM9EC								
	EHST20C-MEC								
	EHST20D-VM2C							•	•
Cylinder unit	EHST20D-MEC							•	•
	EHST20D-MHC							•	•
	EHST20C-MHCW								
	EHST20D-MHCW							•	•
	EHPT20X-VM2C	•	•	•	•	•	•		
	EHPT20X-VM6C	•	•	•	•	•	•		
	EHPT20X-YM9C	•	•	•	•	•	•		
	EHPT20X-TM9C	•	•	•	•	•	•		
	EHPT20X-MHCW	•	•	•	•	•	•		
	EHSD-MEC							•	•
	EHSD-VM2C							•	•
	EHSC-MEC								
	EHSC-VM2C								
	EHSC-VM2EC								
	EHSC-VM6C								
	EHSC-VM6EC								
lydro box	EHSC-YM9C								
	EHSC-YM9EC								
	EHSC-TM9C								
	ERSD-VM2C								•
	ERSC-MEC								
	ERSC-VM2C								
	EHPX-VM2C	•	•	•	•	•	•		
	EHPX-YM9C	•	•	•	•	•	•		

 $[\]hbox{*Connectable indoor unit is coming soon.}$

					Split	type						
POWER INVERTER							ZUBADAN					
PUHZ- SW50VHA	PUHZ- SW75VHA	PUHZ- SW100VHA	PUHZ- SW100YHA	PUHZ- SW120VHA	PUHZ- SW120YHA	PUHZ- SHW80VHA	PUHZ- SHW112VHA	PUHZ- SHW112YHA	PUHZ- SHW140YHA	PUHZ- SHW230YKA*	PUHZ- FRP71VHA	
	•	•	•	•	•	•	•	•	•		•	
	•	•	•	•	•	•	•	•	•		•	
	•	•	•	•	•	•	•	•	•		•	
	•	•	•	•	•	•	•	•	•		•	
	•	•	•	•	•	•	•	•	•		•	
	•	•	•	•	•	•	•	•	•		•	
	•	•	•	•	•	•	•	•	•		•	
	•	•	•	•	•	•	•	•	•		•	
•												
•												
•												
	•	•	•	•	•	•	•	•	•		•	
•												
•												
•												
	•	•	•	•	•	•	•	•	•		•	
	•	•	•	•	•	•	•	•	•		•	
	•	•	•	•	•	•	•	•	•		•	
	•	•	•	•	•	•	•	•	•		•	
	•	•	•	•	•	•	•	•	•		•	
	•	•	•	•	•	•	•	•	•		•	
	•	•	•	•	•	•	•	•	•		•	
	•	•	•	•	•	•	•	•	•		•	
•												
	•	•	•	•	•	•	•	•	•			
	•	•	•	•	•	•	•	•	•			

Mr.SLIM+

Using waste heat from air conditioners to heat water

Mr. SLIM+ — The smart air conditioning and hot-water supply system conceived from eco-conscious ideas



INDOOR UNIT



PLA-ZRP71BA



PCA-RP71KA



PEAD-RP71JAQ



PKA-RP71KAL



PCA-RP71HA



PEAD-RP71JALQ



PSA-RP71KA

ECODAN AIR-TO-WATER INDOOR UNIT

OUTDOOR UNIT

Hydro box

EHSC-VM2C EHSC-VM6C EHSC-YM9C EHSC-TM9C EHSC-VM6EC EHSC-VM9EC EHSC-VM9EC EHSC-VMEC



Cylinder unit

EHST20C-VM2C EHST20C-VM6C EHST20C-VM9C EHST20C-VM2EC EHST20C-VM6EC EHST20C-VM9EC EHST20C-MEL EHST20C-MHCW





PUHZ-FRP71VHA

^{*}Reversible model cannot be connected

More ecological



Heat recovery function recycles waste heat from air conditioners

Air conditioners normally exhaust hot air from the outdoor unit as waste heat in cooling operation. With Mr. SLIM+, however, the heat that is exhausted by conventional air conditioning systems is recycled and simultaneously transferred to the hot-water supply system, where it's used to heat water

In conventional systems, the air-heat exchanger in the outdoor unit works as a condenser during air conditioning operation.

The heat of the indoor-air is transferred to the outside-air and exhausted as waste heat.

The new circuit in Mr.SLIM+ uses a water-heat exchanger for supplying hot water as the condenser. When the air conditioning and hot-water systems are running at the same time, heat is recycled and used rather than being exhausted as waste heat.

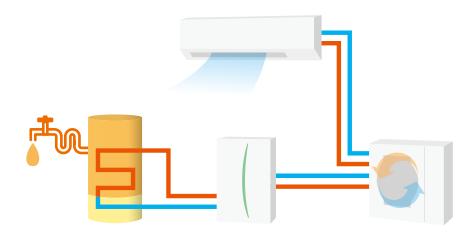
"COP7.0* attained at water temperature of 45°C and standard air conditioning operation conditions"

Traditionally, when using a hot-water supply system where the air-heat exchanger is in the outdoor unit, operation may not be possible when the outside temperature is very high. However, since Mr.SLIM+ uses the Air-to-Air indoor unit for air conditioning operation and there's no heat exchange with outside-air,

it's possible to use the hot-water supply system even if the ambient temperature is very high.

"Hot-water supply is possible (in heat recovery mode) even when the temperature outside is high (outside temperature = 46°C)"

^{*}Conditions for Air-to-Air coolong: Indoor 27°C (dry bulb) / 19°C (wet bulb) ; Outdoor 35°C (dry bulb) *Water temperrature: 45°C



Space savings

Air conditioning and hot-water supply in one system – Installation space reduced

Mr.SLIM+ utilizes an evolutionary "2-in-1" design that combines two original Mitsubishi Electric system technologies (i.e., Air-to-Air and Air-to-Water) using a single outdoor unit.

Save on installation

Mitsubishi Electric's legendary Air-to-Air and Air-to-Water systems have been integrated into a new configuration in which two systems share just one outdoor unit. The installation area required outside is cut in half, realizing a space savings of 50%.

Save on construction

Previously, two systems including two separate outdoor units were required. But the all-new Mr.SLIM+ simplifies everything into a single system configuration, improving reliability and quality by reducing installation time. That results in savings in both time and money, which are passed on to our customers.

Conventional system Hybrid heat recovery 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, hot-water supply and hot-water heating)

Mr.SLIM for Air-to-Air

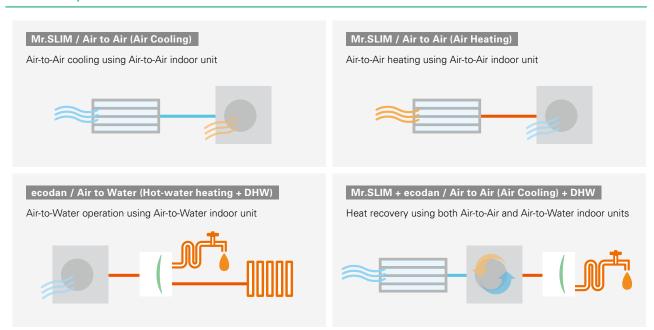
Mr.SLIM+ utilizes a duct system that enables the air conditioning or heating of multiple rooms, and other indoor unit type systems that is possible to fit various applications.

ecodan for Air-to-Water

✓ Hot-water supply (Domestic Hot-water supply)✓ Hot-water heating for multiple rooms



Various operations



Specifications

Refrigerant	Indoor	unit				PLA-ZRP71BA	PKA-RP71KAL	PCA-RP71KA	PCA-RP71HA	PSA-RP71KA	PEAD-RP71JAQ	PEAD-RP71JALQ			
Power supply Outdoor V/F (Phase /Hz)	Outdoo	r unit				PUHZ-FRP71VHA	PUHZ-FRP71VHA	PUHZ-FRP71VHA	PUHZ-FRP71VHA	PUHZ-FRP71VHA	PUHZ-FRP71VHA	PUHZ-FRP71VHA			
Ready Cooling Capacity Min-Max W 3.3-8.1 3	Refrige	rant						•	R410A		•				
APA	Power s	supply	Outdoor (V / P	Phase / Hz)					230 / Single / 50						
Total input Related No. 1.86	Air-to-Air	Cooling	Capacity	Rated	kW	7.1	7.1	7.1	7.1	7.1	7.1	7.1			
	(ATA)			Min-Max	kW	3.3-8.1	3.3-8.1	3.3-8.1	3.3-8.1	3.3-8.1	3.3-8.1	3.3-8.1			
Design food			Total input	Rated	kW	1.85	1.88	1.90	2.26	1.97	2.10	2.08			
Annual electricity consumption ** White SPER **						3.84	3.78	3.74	3.14	3.60	3.38	3.41			
SER 1"			Design load		kW	7.1	7.1	7.1	7.1	7.1	7.1	7.1			
SER N			Annual electri	city consumption *1	kWh/a	382	393	387	462	408	459	441			
Heating Copposity Energy efficiency class				· ·		6.5	6.3	6.4	5.4	6.1	5.4	5.6			
Marketing Severage Season Min May May 3.5 no. 2.0 no. 8.0 no				Energy-efficiency class							.				
Windlesson		Heating	Capacity		kW	8.0	8.0	8.0	8.0	8.0	8.0	8.0			
SeeSon		(average		Min-Max	_		3.5-10.2		3.5-10.2		3.5-10.2	3.5-10.2			
COP		season)	Total input								 	2.09			
Design load			· ·									3.83			
Declared Affence of sign Imperation KW A 7 (-10°C)			H		kW										
Part			l 									4.9 (-10°C)			
					_							4.9 (-10°C)			
Back-up heating capacity					_							3.7 (–20°C)			
Annual electricty consumption **I White 1,510 1,589 1,555 1,787 1,709 1,799 1,799 1,799 3.00 3.00 3.30			Back-up hoo		_										
SCOP *3															
Nominal Nomi				tricity consumption .	KVVII/a										
Nominal Nomi			SCOP 3	Engrava officiona y alogo											
Mathy Math	Al- a- Wes-	NI i			Lineia		A+	A+		А	A	Α			
Name of the content					-										
Recommendation Reco	()	Heating *4	A/W35	, ,	_										
					KVV										
Heat recovery (ATA) ATM															
Mathematics			A2W35		_										
Heat recovery (ATA recover) (ATA recover) recovery recovery (ATA recover) recovery r					kVV										
Recovery Cooling & ATW Free Power Coolin												1			
ATA Colling & COP T-95 T-95 T-95 T-74 6.54 T-48 T-02 T-05		l	W45		-	+					-	7.1+8.0			
Cooling 8					kW						 	2.13			
Input		cooling &					·					7.09			
COP 5.42 5.37 5.33 4.74 5.21 5.00 5.00 5.00		ATW) *5	W55		_						-	7.1+9.0			
ATW indoor unit					kW						-	3.20			
Dimensions				COP		5.42 5.37 5.33 4.74 5.21 5.00 5									
Weight		ATW inc	door unit												
Air volume	Outdoo	r unit	Dimensions	HxWxD	mm				943-950-330 (+30))					
Heating Milmin 55 55 55 55 55 55 55															
Sound pressure level (SPL) Heat recovery dB(A) 47 47 47 47 47 47 47 4			Air volume		_										
Revel (SPL)				Heating	_	55	55	55	55	55	55	55			
ATA Heating				Cooling	_		47	47	47	47	47	47			
ATW Heating dB(A) 48 48 48 48 48 48 48 4			level (SPL)	Heat recovery	dB(A)	47	47	47	47	47	47	47			
Sound power level (PWL)				ATA Heating	dB(A)	48	48	48	48	48	48	48			
Revel (PWL)				ATW Heating	dB(A)	48	48	48	48	48	48	48			
ATA Heating dB(A) 68 68 68 68 68 68 68 68 68 68 68 68 68				_			67	67	67	67	67	67			
ATW Heating dB(A) 68 68 68 68 68 68 68 68 68 68 68 68 68			level (PWL)	Heat recovery	dB(A)	67	67	67	67	67	67	67			
Operating current (max)				ATA Heating	dB(A)	68	68	68	68	68	68	68			
Breaker size				ATW Heating	dB(A)	68	68	68	68	68	68	68			
Ext.piping Diameter Liquid/Gas mm 9.52/15.88			Operating cur	rent (max)	Α	19.0	19.0	19.0	19.0	19.0	19.0	19.0			
Ext.piping Diameter Liquid/Gas mm 9.52/15.88			Breaker size		Α	25	25	25	25	25	25	25			
Max. length Out-In m 30 (for ATA) + 30 (for ATW) Max. height Out-In m 20 20 20 20 20 20 20 Guaranteed operating range (outdoor) Cooling *2 °C -15~+46 -15~	Ext.pipi	ng	Diameter	Liquid/Gas	mm			9.52/15.88				9.52/15.88			
Max. height Out-In m 20															
Guaranteed operating range (outdoor) Cooling *2						20	20				20	20			
(outdoor) Heating °C -20~+21 -20~+21 -20~+21 -20~+21 -20~+21 -20~+21 -20~+21 -20~+21 -20~+35 -	Guaran	teed oper									 	-15~+46			
ATW °C -20~+35 -20~+35 -20~+35 -20~+35 -20~+35 -20~+35 -20~+35			5 5-		-						 	-20~+21			
											+	-20~+35			
Heat recovery °C +7~+46					°C						 	+7~+46			

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

^{*3} SEER/SCOP values are measured based on EN14825.

^{*4} Ait-to-Water values are measured based on EN14511 (Circulation pump input is not included.).
*5 Conditions for Air-to-Air cooling: Indoor 27°C (dry bulb) /19°C (wet bulb); Outdoor 35°C (dry bulb).

MELCloud (WiFi interface) for ecodan



MELCloud for fast, easy remote control and monitoring of your ecodan

MELCloud is a new Cloud-based solution for controlling ecodan either locally or remotely by computer, tablet or smartphone via the Internet. Setting up and remotely operating your ecodan heating system via MELCloud is simple and straight forward. All you need is wireless computer connectivity in your home or the building where the ecodan is installed and an Internet connection on your mobile or fixed terminal. To set up the system, the router and the ecodan WiFi interface must be paired, and this is done simply and quickly using the WPS button found on all mainstream routers.

You can control and check ecodan via MELCould from virtually anywhere there are Internet connections in the world.

That means, thanks to MELCloud, you can use ecodan much more easily and conveniently.



OSSNAY SYSTEM







SELECTION

A line-up of three product groups that addresses a wide range of needs.

SELECT LOSSNAY

Select the most appropriate model according to factors such as the shape of the building and ventilation requirements.

LGH SERIES Ceiling-concealed Nine models (150–2000m³/h)



LGH-15 to 100RVX-E



LGH-150 and 200RVX-E

- Applications: Offices, Stores, Etc.
- High total heat-exchange efficiency
- Excellent airflow control (Extra High, High, Low and Extra Low)
- Multi-ventilation Mode
- Can be interconnected with other Mitsubishi Electric air conditioners
- Exclusive Lossnay remote-control system
- Mr. Slim remote controller can be used for some systems

LGH SERIES Ceiling-suspended 400m³/h



- Applications: Stores, Schools, Etc.
- · High/Low airflow control
- Can be controlled using separately sold mechanical switches

VL SERIES Wall-mounted 100m³/h

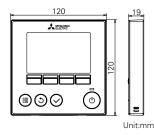


- Application: Prefabricated offices (container houses), Residences, Etc.
- High/Low airflow control
- Pull-string switch

SELECT OPTIONS

Remote controller (PZ-61DR-E)





Fan speed selection	4 fan speeds
Ventilation mode selection	Energy recovery / Bypass / Auto
Night-purge (time)	Any time selectable
Night-purge (fan speed)	Selectable from 4 fan speeds
Dip-switch setting and function setting from RC	Yes
Bypass temp. free setting	Yes
Heater-On temp. free setting	Yes
Fan power up after installation	Yes
0 - 10VDC external input	Yes
ON/OFF timer	Yes
Auto-Off timer	Yes
Weekly timer	Yes
Operation restrictions (ON/OFF, Ventilation mode, fan speed)	Yes
Operation restrictions (Fan speed skip setting)	Yes
Screen contrast adjustment	Yes
Language selection	Yes (8 languages)
Initializing remote controller	Yes
Filter cleaning sign	Yes
Lossnay core cleaning sign	Yes
Error indication	Yes
Error history	Yes
OA/RA/SA temp. display	Yes

High-efficiency filter





Incorporation into the main unit is simple, and filter changes can be performed via the main unit inspection opening.

Model	Model Number of filters Applicable model per set					
PZ-15RFM-E	1	LGH-15RVX-E				
PZ-25RFM-E	2	LGH-25RVX-E	Non			
PZ-35RFM-E	2	LGH-35RVX-E	combustible			
PZ-50RFM-E	2	LGH-50RVX-E	fiber (Polyester-			
PZ-65RFM-E	2	LGH-65RVX-E	polyolefin)			
PZ-80RFM-E	2	LGH-80RVX-E, LGH-150RVX-E (2 sets)	(EU-F7)			
PZ-100RFM-E	2	LGH-100RVX-E, LGH-200RVX-E (2 sets)				

^{*} Options listed above are exclusively for LGH-_RVX-E models.

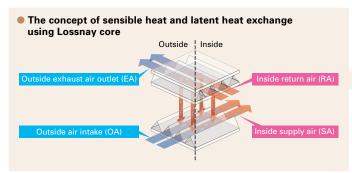
LOSSNAY

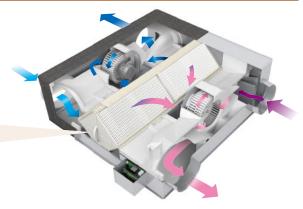
Lossnay ventilation systems are renowned industry-wide for their efficiency. They offer environment-friendly energy recovery and humidity control, and enable air conditioning systems to simultaneously provide optimum room comfort and energy savings.



Indoor Air Quality Inside a Building is Optimised Through Temperature and Humidity Exchange by Lossnay

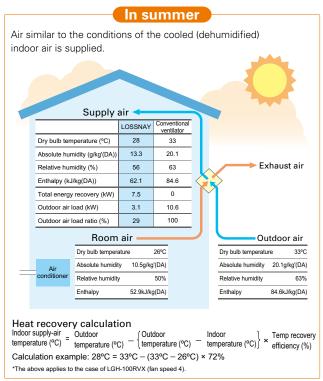
Lossnay is a total heat exchange ventilation system that uses paper characteristics to perform temperature (sensible heat) and humidity (latent heat) exchange.

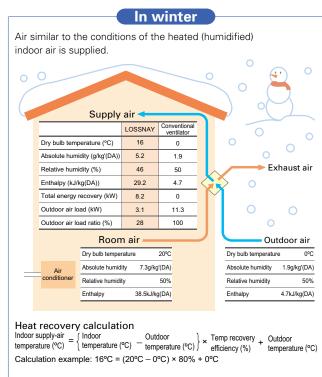




What can be Improved by Introducing Lossnay?

Ventilation with maximised comfort

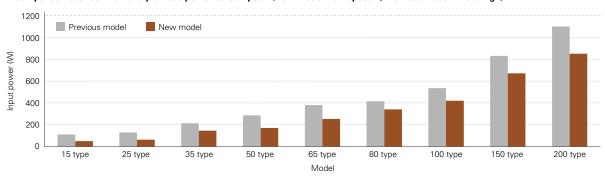




Power Consumption Reduced Further with Introduction of DC Motor

A high efficiency DC motor has been adopted. Compared to models with an AC motor, power consumption is reduced.

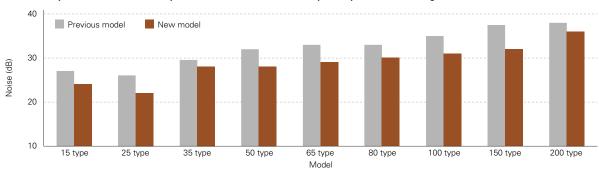
Comparison between new and previous power consumption (New model: Fan Speed 4, Previous model: Extra-High)



Low Noise Design

By providing a range of air volume for each fan speed, sound levels can be reduced to achieve low noise.

• Noise comparison between new and previous models (new model: fan speed 3, previous model: High)



Improved External Static Pressure

External static pressure has been improved compared to previous models.

By increasing the external static pressure, highly flexible duct work becomes possible thus renewal from existing equipment is easy.



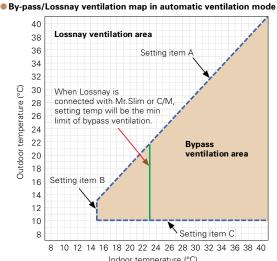
Auto Ventilation Mode has Improved [PZ-61DR-E]

With operation from PZ-61DR-E, it is possible to select manual switching or automatic switching between "Lossnay ventilation (with heat exchange)" and "Bypass ventilation (without heat exchange)".

What is Lossnay ventilation? Room air is discharged to outside via Lossnay core. Heat exchanged outside air is supplied to the room. In summer and winter, air conditioning energy can be recovered by Lossnay unit. What is bypass ventilation? Stale room air is discharged to outside without passing through the Lossnay core. In spring and fall when air conditioning is not necessary, the unit operates in bypass ventilation mode.

With the previous model, the auto ventilation mode is based on the initial setting condition; however, with the new model it becomes possible to set three setting points, as shown in the table on the right.

*Settings can only be made using the PZ-61DR-E



Unified Remote-control Design

The unified design of the PAR-31MAA air conditioner remote controller improves installation appearance. Full-dot backlit LCD makes it easy to see and control the unit.

Previous remote controller





New remote controller



PZ-61DR-E

Air conditioner remote controller



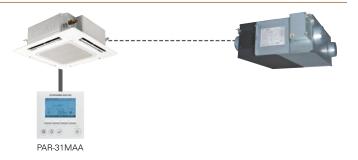
PAR-31MAA

Improved Air Volume Setting Flexibility when Simultaneously Operating with Air Conditioner

For the specified high and low air volume of the air conditioner, two types of air volumes can be selected, respectively, providing more flexible setting options.

		Previous model	New model
Mr.Slim	Low	Low	Fan Speed 1 or 2*
City Multi	High	High or Extra-High	Fan Speed 3 or 4*



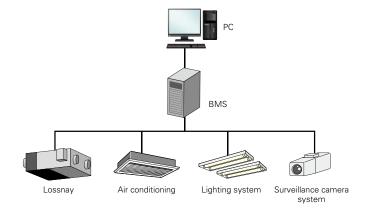


Improved Control with a BMS System

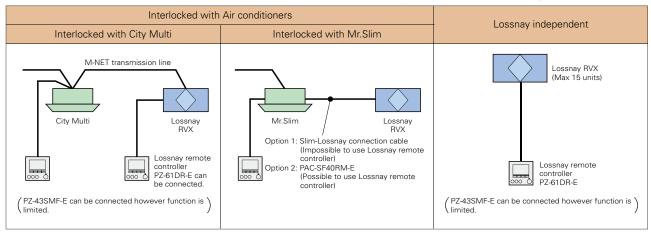
Using a 0-10V signal from the building management system, the air volume of the Lossnay unit can be changed.

Connection example: BMS (Building Management System)

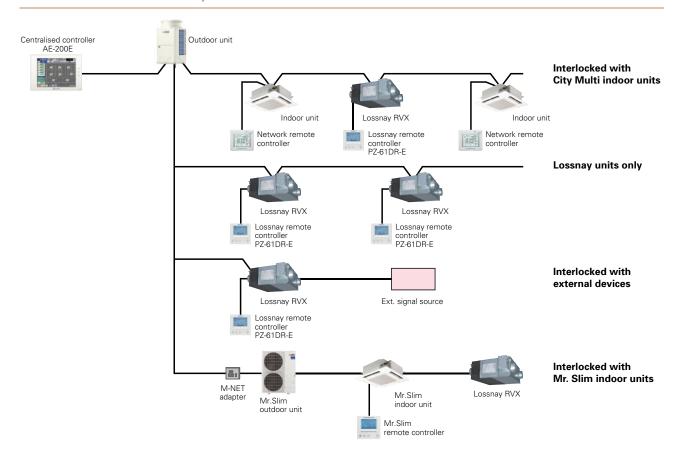
Input voltage [VDC]	Fan speed	Fan speed changing from remote controller
0 -1.0	ı	Available
1.5 - 2.5	1	Not available
3.5 - 4.5	2	Not available
5.5 - 7.0	3	Not available
8.5 - 10.0	4	Not available



The New Remote Controller PZ-61DR-E Enables Simple Control Setting



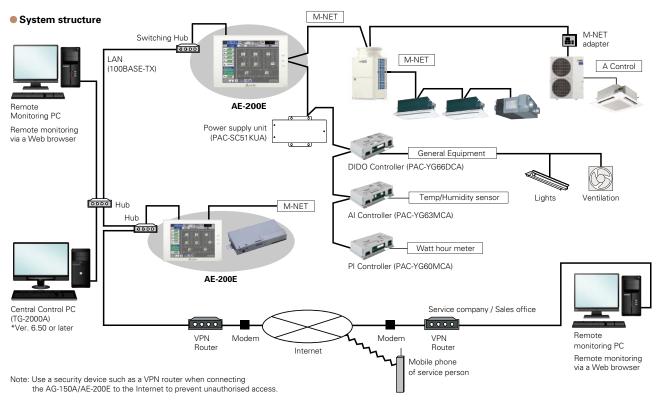
Centralised Controller System



Features of New Centralised Controller "AE-200E"

In an easy and flexible manner, an optimum system can be established according to the scale of facilities.

- Implements control on up to 50 indoor units of air-conditioning equipment.
- By using three units of expansion controller "AE-50E", the centralized control is implemented for the maximum of 200 indoor units.
- Connection with PC allows implementation of control on more than 200 indoor units via Web browser.*
- * Please contact your local distributor for when the feature is supported.

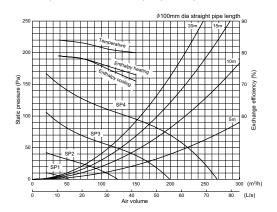


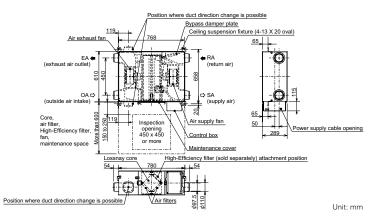
Specifications / Dimensions

LGH-15RVX-E

Model			LGH-15RVX-E								
Electrical power supply		220-240V/50Hz, 220V/60Hz									
Ventilation mode			Heat reco	very mode			Bypas	s mode			
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1		
Running current (A)		0.40	0.24	0.15	0.10	0.41	0.25	0.15	0.10		
Input power (W)		49	28	14	7	52	28	14	8		
Air volume	(m³/h)	150	113	75	38	150	113	75	38		
All volume	(L/s)	42	31	21	10	42	31	21	10		
External static pressure (Pa)		95	54	24	6	95	54	24	6		
Temperature exchange efficiency (%)		80.0	81.0	83.0	84.0	_	_	_	_		
Enthalmy evaluation of fision cy (9)	Heating	73.0	75.5	78.0	79.0	_	_	_	_		
Enthalpy exchange efficiency (%)	Cooling	71.0	74.5	78.0	79.0	_	_	_	_		
Noise (dB) (Measured at 1.5m under the center of unit in an anechoeic chamber)		28.0	24.0	19.0	17.0	29.0	24.0	19.0	18.0		
Weight (kg)			20								

^{*}The Air outlets noise (45 angle,1.5meters in front of the unit) is about 13dB greater than the indicated value.(at Fan speed 4) *The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.



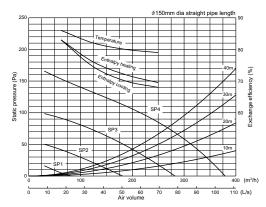


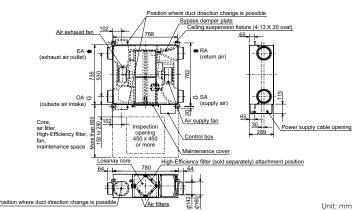
LGH-25RVX-E

Model		LGH-25RVX-E									
Electrical power supply			220-240V/50Hz, 220V/60Hz								
Ventilation mode			Heat reco	very mode			Bypass	s mode			
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1		
Running current (A)		0.48	0.28	0.16	0.10	0.48	0.29	0.16	0.11		
Input power (W)		62	33	16	7.5	63	35	17	9		
Air volume	(m³/h)	250	188	125	63	250	188	125	63		
All Volume	(L/s)	69	52	35	17	69	52	35	17		
External static pressure (Pa)		85	48	21	5	85	48	21	5		
Temperature exchange efficiency (%)		79.0	80.0	82.0	86.0	_	_	_	_		
Enthalpy exchange efficiency (%)	Heating	69.5	72.0	76.0	83.0	_	_	_	_		
Entrialpy exchange efficiency (%)	Cooling	68.0	70.0	74.5	83.0	_	_	_	_		
Noise (dB) (Measured at 1.5m under the center of unit in an anechoeic chamber)		27.0	22.0	20.0	17.0	27.5	23.0	20.0	17.0		
Weight (kg)		23									

^{*}The Air outlets noise (45 angle,1.5meters in front of the unit) is about 15dB greater than the indicated value.(at Fan speed 4) *The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.

*For the specification at the other frequency contact your dealer.

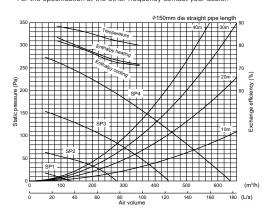


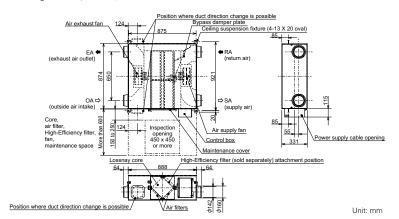


LGH-35RVX-E

Model			LGH-35RVX-E								
Electrical power supply		220-240V/50Hz, 220V/60Hz									
Ventilation mode			Heat reco	very mode			Bypass	s mode			
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1		
Running current (A)		0.98	0.54	0.26	0.12	0.98	0.56	0.28	0.13		
Input power (W)		140	70	31	11	145	72	35	13		
Air volume	(m³/h)	350	263	175	88	350	263	175	88		
All volume	(L/s)	97	73	49	24	97	73	49	24		
External static pressure (Pa)		160	90	40	10	160	90	40	10		
Temperature exchange efficiency (%)		80.0	82.5	86.0	88.5	_	_	-	-		
Enthalpy exchange efficiency (%)	Heating	71.5	74.0	78.5	83.5	_	_	_	_		
Entirally exchange entitlerity (76)	Cooling	71.0	73.0	78.0	82.0	_	_	_	_		
Noise (dB) (Measured at 1.5m under the of unit in an anechoeic cha		32.0	28.0	20.0	17.0	32.5	28.0	20.0	18.0		
Weight (kg)			30								

^{*}The Air outlets noise (45 angle,1.5meters in front of the unit) is about 12dB greater than the indicated value.(at Fan speed 4) *The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.



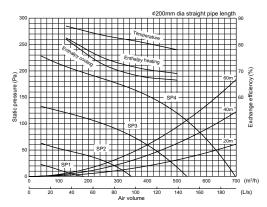


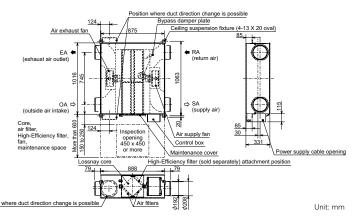
LGH-50RVX-E

1.00.0000										
Model		LGH-50RVX-E								
Electrical power supply		220-240V/50Hz, 220V/60Hz								
Ventilation mode			Heat reco	very mode			Bypass	s mode		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	
Running current (A)		1.15	0.59	0.26	0.13	1.15	0.59	0.27	0.13	
Input power (W)		165	78	32	12	173	81	35	14	
Air volume	(m³/h)	500	375	250	125	500	375	250	125	
All volume	(L/s)	139	104	69	35	139	104	69	35	
External static pressure (Pa)		120	68	30	8	120	68	30	8	
Temperature exchange efficiency (%)		78.0	81.0	83.5	87.0	_	_	_	_	
Enthalpy exchange efficiency (%)	Heating	69.0	71.0	75.0	82.5	-	_	-	_	
Littialpy exchange efficiency (%)	Cooling	66.5	68.0	72.5	82.0	_	_	_	_	
Noise (dB) (Measured at 1.5m under the center of unit in an anechoeic chamber)		34.0	28.0	19.0	18.0	35.0	29.0	20.0	18.0	
Weight (kg)		33								

^{*}The Air outlets noise (45 angle,1.5meters in front of the unit) is about 18dB greater than the indicated value.(at Fan speed 4) *The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.

^{*}For the specification at the other frequency contact your dealer.



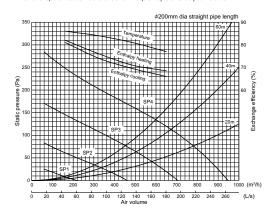


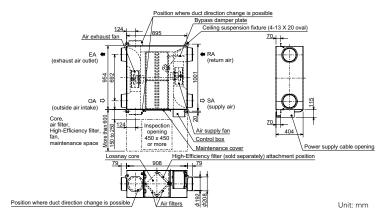
Specifications / Dimensions

LGH-65RVX-E

Model					LGH-6	RVX-E					
Electrical power supply		220-240V/50Hz, 220V/60Hz									
Ventilation mode			Heat reco	very mode			Bypas	s mode			
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1		
Running current (A)		1.65	0.90	0.39	0.15	1.72	0.86	0.38	0.16		
Input power (W)		252	131	49	15	262	131	47	17		
Air volume	(m³/h)	650	488	325	163	650	488	325	163		
All volume	(L/s)	181	135	90	45	181	135	90	45		
External static pressure (Pa)	•	120	68	30	8	120	68	30	8		
Temperature exchange efficiency (%)		77.0	81.0	84.0	86.0	_	_	_	_		
Enthalmy evaluation officiancy (9)	Heating	68.5	71.0	76.0	82.0	_	_	_	_		
Enthalpy exchange efficiency (%)	Cooling	66.0	69.5	74.0	81.0	_	_	_	_		
Noise (dB) (Measured at 1.5m under the center of unit in an anechoeic chamber)		34.5	29.0	22.0	18.0	35.5	29.0	22.0	18.0		
Weight (kg)			38								

^{*}The Air outlets noise (45 angle,1.5meters in front of the unit) is about 16dB greater than the indicated value.(at Fan speed 4) *The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.





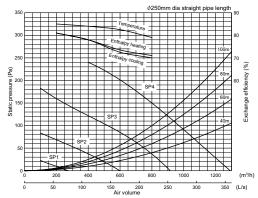
LGH-80RVX-E

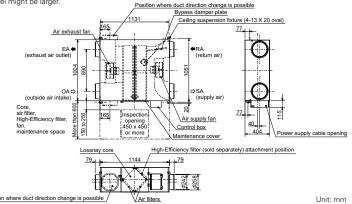
Model LGH-80RVX-E										
Electrical power supply		220-240V/50Hz, 220V/60Hz								
Ventilation mode			Heat reco	very mode			Bypass	s mode		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	
Running current (A)		1.82	0.83	0.36	0.15	1.97	0.86	0.40	0.15	
Input power (W)		335	151	60	18	340	151	64	20	
Air volume	(m³/h)	800	600	400	200	800	600	400	200	
All volume	(L/s)	222	167	111	56	222	167	111	56	
External static pressure (Pa)		150	85	38	10	150	85	38	10	
Temperature exchange efficiency (%)		79.0	82.5	84.0	85.0	_	_	_	_	
F-th-l	Heating	71.0	73.5	78.0	81.0	_	_	_	_	
Enthalpy exchange efficiency (%)	Cooling	70.0	72.5	78.0	81.0	_	_	_	_	
Noise (dB) (Measured at 1.5m under the center of unit in an anechoeic chamber)		34.5	30.0	23.0	18.0	36.0	30.0	23.0	18.0	
Weight (kg)		48								

^{*}The Air outlets noise (45 angle,1.5meters in front of the unit) is about 24dB greater than the indicated value.(at Fan speed 4)
*The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.

*For the specification at the other frequency contact your dealer.

*Use this unit with static pressure 240Pa or less at Fan speed4. Otherwise the noise level might be larger.

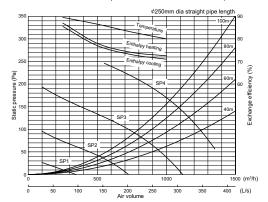


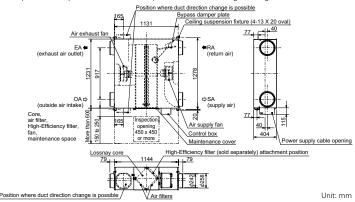


LGH-100RVX-E

Model		LGH-100RVX-E								
Electrical power supply		220-240V/50Hz, 220V/60Hz								
Ventilation mode			Heat reco	very mode			Bypass	s mode		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	
Running current (A)		2.50	1.20	0.50	0.17	2.50	1.20	0.51	0.19	
Input power (W)		420	200	75	21	420	200	75	23	
Air volume	(m³/h)	1000	750	500	250	1000	750	500	250	
All volume	(L/s)	278	208	139	69	278	208	139	69	
External static pressure (Pa)		170	96	43	11	170	96	43	11	
Temperature exchange efficiency (%)		80.0	83.0	86.5	89.5	_	_	_	_	
Enthalpy exchange efficiency (%)	Heating	72.5	74.0	78.0	87.0	_	_	_	_	
Entitially exchange entitleticy (70)	Cooling	71.0	73.0	77.0	85.5	_	_	_	_	
Noise (dB) (Measured at 1.5m under the of unit in an anechoeic cha		37.0	31.0	23.0	18.0	38.0	32.0	24.0	18.0	
Weight (kg)		54								

^{*}The Air outlets noise (45 angle, 1.5meters in front of the unit) is about 21dB greater than the indicated value.(at Fan speed 4)
*The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.
*For the specification at the other frequency contact your dealer.
*Use this unit between static pressure 60Pa and 240Pa at Fan speed4. Otherwise the motor protection may work and reduce its output or the noise level might be larger.





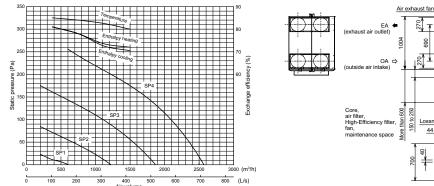
LGH-150RVX-E

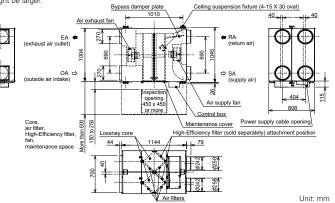
Model				LGH-150RVX-E								
	220-240V/50Hz, 220V/60Hz											
Ventilation mode					Bypass mode							
	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1				
Running current (A)		1.75	0.70	0.29	3.85	1.78	0.78	0.30				
Input power (W)		311	123	38	698	311	124	44				
(m³/h)	1500	1125	750	375	1500	1125	750	375				
(L/s)	417	313	208	104	417	313	208	104				
	175	98	44	11	175	98	44	11				
	80.0	82.5	84.0	85.0	_	_	_	_				
Enthalpy exchange efficiency (%)		73.5	78.0	81.0	_	_	_	_				
Cooling	70.5	72.5	78.0	81.0	-	-	_	_				
Noise (dB) (Measured at 1.5m under the center of unit in an anechoeic chamber)		32.0	24.0	18.0	40.5	33.0	26.0	18.0				
Weight (kg)			98									
	(L/s) Heating Cooling e center	3.71 670 (m³/h) 1500 (L/s) 417 175 80.0 Heating 72.0 Cooling 70.5 e center	SP4 SP3 3.71 1.75 670 311 (m³/h) 1500 1125 (L/s) 417 313 175 98 80.0 82.5 Heating 72.0 73.5 Cooling 70.5 72.5 e center 20.0 23.0	Heat recovery mode SP4 SP3 SP2 3.71 1.75 0.70 670 311 123 (m³/h) 1500 1125 750 (L/s) 417 313 208 44 80.0 82.5 84.0 Heating 72.0 73.5 78.0 Cooling 70.5 72.5 78.0 e center 20.0 23.0 24.0 24.0	SP4 SP3 SP2 SP1	Heat recovery mode SP4 SP3 SP2 SP1 SP4 3.71 1.75 0.70 0.29 3.85 670 311 123 38 698 (m³/h) 1500 1125 750 375 1500 (L/s) 417 313 208 104 417 175 98 44 11 175 80.0 82.5 84.0 85.0 — Heating 72.0 73.5 78.0 81.0 — Cooling 70.5 72.5 78.0 81.0 — e center mber 39.0 32.0 24.0 18.0 40.5	SP4 SP3 SP2 SP1 SP4 SP3 SP3 SP2 SP1 SP4 SP3 SP3 SP2 SP3 SP4 SP3 SP3 SP4 SP3 SP3 SP4 SP3 SP3 SP4 SP4 SP3 SP4 SP4	SP4 SP3 SP2 SP1 SP4 SP3 SP2				

^{*}The Air outlets noise (45 angle,1.5meters in front of the unit) is about 22dB greater than the indicated value.(at Fan speed 4)
*The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.

*For the specification at the other frequency contact your dealer.

*Use this unit with static pressure 250Pa or less at Fan speed4. Otherwise the noise level might be larger.



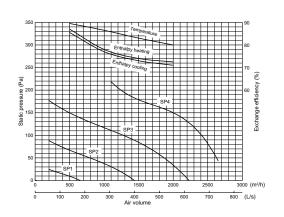


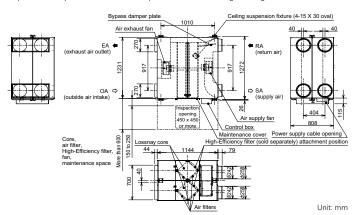
Specifications / Dimensions

LGH-200RVX-E

Model	LGH-200RVX-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)		4.88	2.20	0.88	0.33	4.54	2.06	0.87	0.35
Input power (W)		850	400	153	42	853	372	150	49
Air volume	(m³/h)	2000	1500	1000	500	2000	1500	1000	500
All volume	(L/s)	556	417	278	139	556	417	278	139
External static pressure (Pa)		150	84	38	10	150	84	38	10
Temperature exchange efficiency (%)		80.0	83.0	86.5	89.5	_	_	_	_
Enthalpy exchange efficiency (%)		72.5	74.0	78.0	87.0	_	_	_	_
Littridipy exchange efficiency (76)	Cooling	71.0	73.0	77.0	85.5	_	_	_	_
Noise (dB) (Measured at 1.5m under the center of unit in an anechoeic chamber)		40.0	36.0	28.0	18.0	41.0	36.0	27.0	19.0
Weight (kg)	110								

^{*}The Air outlets noise (45 angle, 1.5meters in front of the unit) is about 21dB greater than the indicated value.(at Fan speed 4)
*The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.
*For the specification at the other frequency contact your dealer.
*Use this unit between static pressure 50Pa and 220Pa at Fan speed4. Otherwise the motor protection may work and reduce its output or the noise level might be larger.

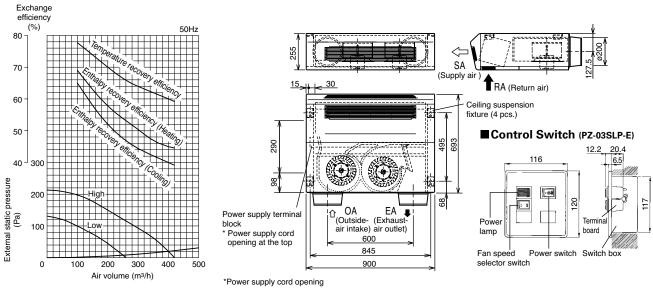




LGH-40ES-E

Supply voltage	Power supply frequency	Fan speed	Power consumption	All volume		Temperature recovery efficiency (%)	Enthalpy recovery efficiency (%)		Noise	Weight
(V) (Hz)		(VV)	(W) (m³/h)	(L/s)	Heating		Cooling	(dB(A))	(kg)	
1-phase	F0	Hi	132-146	400	111	60	45	40	41-43	25
220~240	50	Lo	82-95	250	69	66	54	48	32-34	25

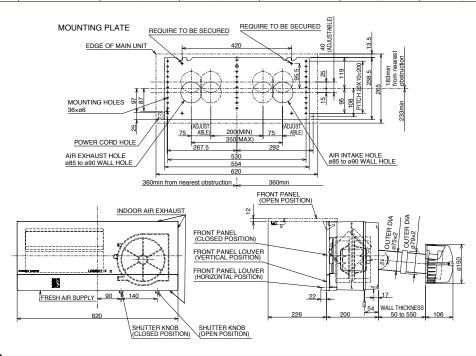
^{*}The value of noise was measured at an anechoic chamber. it may vary depending on the room structure, building materials or the way the main was installed.



Unit: mm

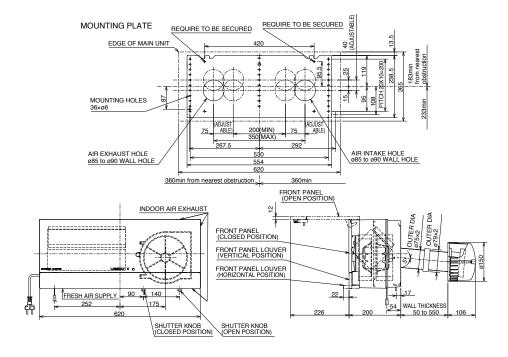
VL-100EU5-E

Supply voltage (V)	Power line frequency (Hz)	Fan speed	Air volume (m³/h)	Power consumption (W)	Temp. exchange efficiency (%)	Noise (dB)	Weight (kg)	
220	50	HI	100	30	73	73 36.5		
220	220 50	LO	55	13	80	24		
230	50	HI	105	31	73	37		
230	230 50	LO	60	15	80	25	7.5	
240	240 50	FO	HI	106	34	72	38	7.5
240		LO	61	17	79	27		
220 60	60	HI	103	34	73	38		
	LO	57	17	80	25			



VL-100U5-E

Supply voltage (V)	Power line frequency (Hz)	Fan speed	Air volume (m³/h)	Power consumption (W)	Temp. exchange efficiency (%)	Noise (dB)	Weight (kg)
220	50	Ξ	100	30	73	36.5	
220	50	LO	55	13	80	24	
230	50	Ξ	105	31	73	37	7.5
230	230 50	LO	60	15	80	25	
240	240 50	Ξ	106	34	72	38	7.5
240		LO	61	17	79	27	
220	60	Ξ	103	34	73	38	
		LO	57	17	80	25	



Unit: mm

Unit: mm