

- 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 equipment and heat pumps contain a fluorinated greenhouse gas, R410A.
- When installing or relocating or servicing our air-conditioning equipment, 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.

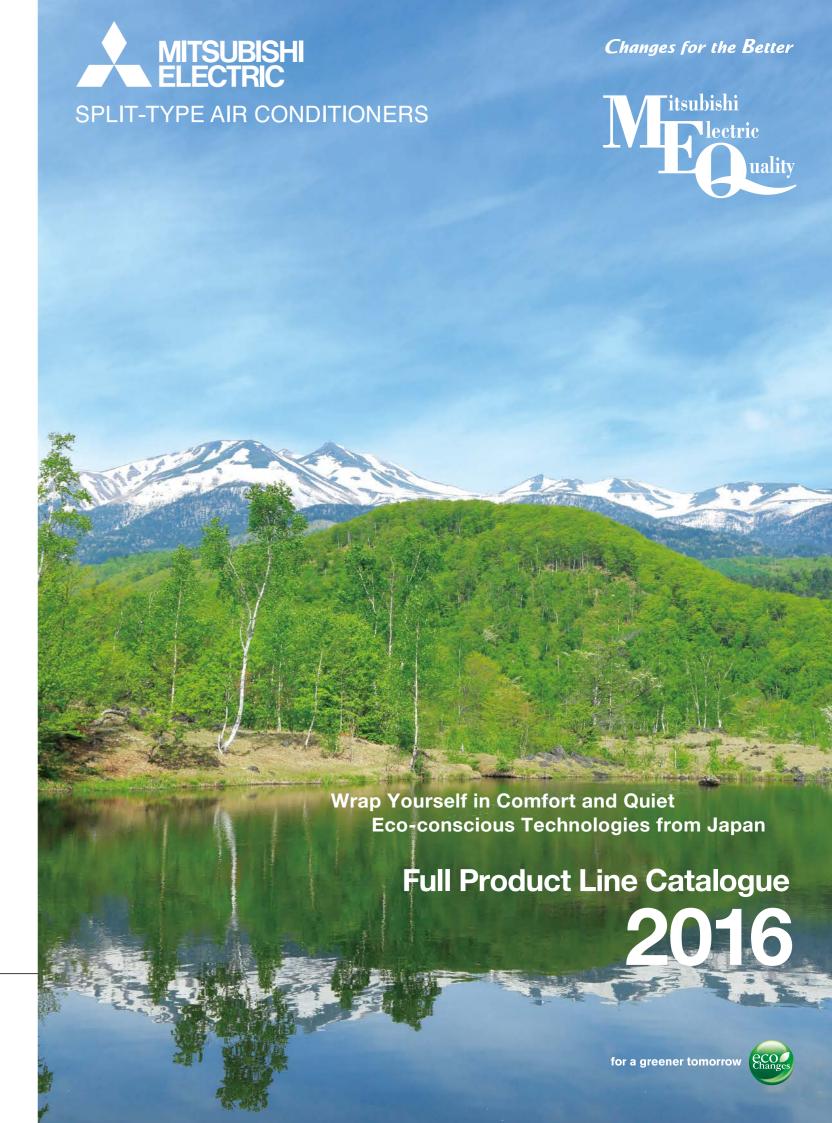
Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

# MITSUBISHI ELECTRIC CORPORATION

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



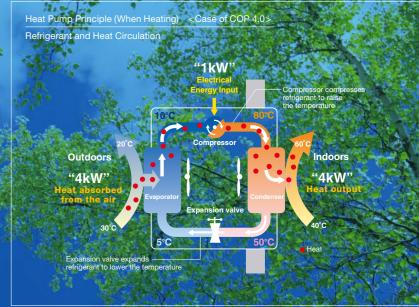






Mitsubishi Electric reflects the essence of this policy and vision in all aspects of its air conditioner business as well.

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.

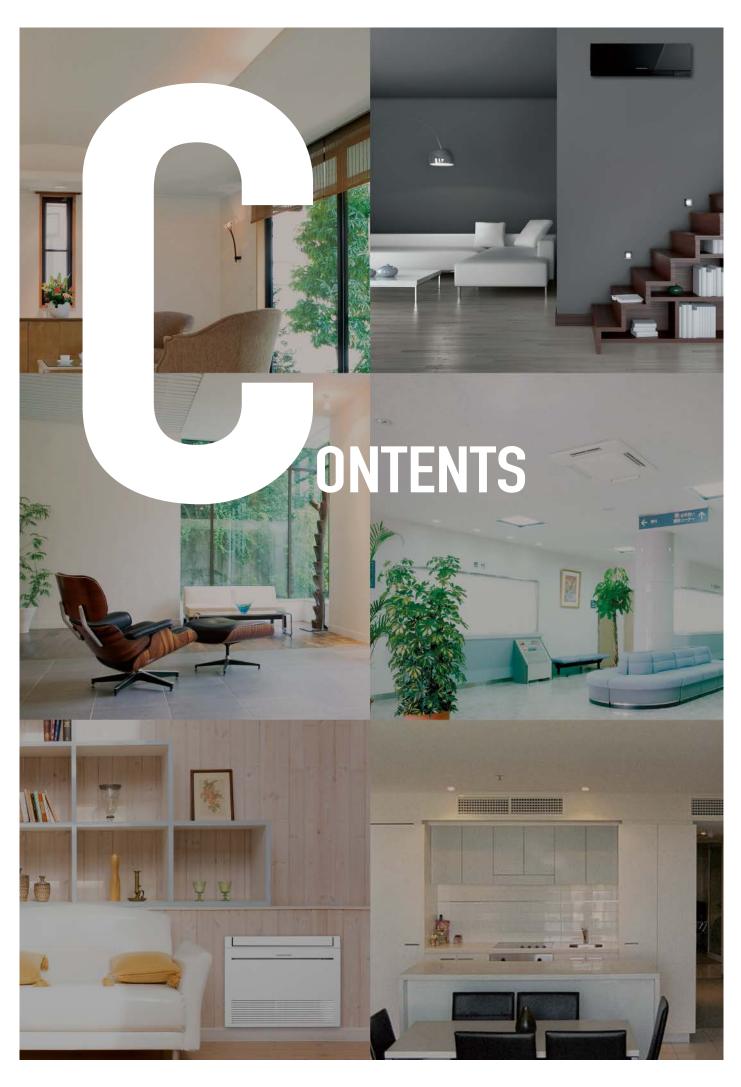
	Comfort	Ecology
1. Inverter	Faster start-up and more stable indoor temperature than non-inverter units.	Fewer On/Off operations than with non-inverter, saving energy.
2. 3D i-see Sensor	Since the positions of people can be detected, airflow can be set to personal taste, such as in airflow path or protected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

# Creating a Recycling-Based Society

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

# Ensuring Harmony with Nature / Fostering Environmental Awareness

n striving to heighten the eco-awareness of its employees, Mitsubishi Electric provides education in RoHS, WEEE and other environmental regulations, along with environmental



Air Conditioners	
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# 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	e	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	rage
	MSZ-F Series					SINGLE	SINGLE		SINGLE			35
	MSZ-E Series		MXZ connection only		MXZ connection only	SINGLE	SINGLE	SINGLE	SINGLE			39
Wall-	MSZ-S Series	MXZ connection only		MXZ connection only								41
mounted	1-10					SINGLE	SINGLE	SINGLE	SINGLE			41
	MSZ-G Series									SINGLE	SINGLE	41
	MSZ-D Series					SINGLE	SINGLE					45
	MSZ-HJ60/71  MSZ-HJ25/35/50					SINGLE	SINGLE		SINGLE	SINGLE	SINGLE	47
Compact floor	MFZ Series					SINGLE	SINGLE		SINGLE			49
1-way cassette	MLZ Series					MXZ connection only	MXZ connection only		MXZ connection only			51

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**

Madal Nam	Model Name		3.5kW	4.2kW	5.0kW	6.0kW	7.1kW	8.0kW	10.0kW	14.0kW	20.0kW	Page
Wodel Nam			1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1- & 3-phase	1- & 3-phase	1- & 3-phase	
2 x 2 cassette	SLZ Series	SINGLE	SINGLE		SINGLE	SINGLE						57
Compact ceiling- concealed	SEZ Series	SINGLE	SINGLE		SINGLE	SINGLE	SINGLE					61

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

### **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

# MXZ SERIES

# **INVERTER Models**

Model Name		Capacity Class	Wall-mounted	Floor-standing	Cassette	Ceiling-concealed	Ceiling-suspended	Page
up to 6 indoor units MXZ-6D122VA	0	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-KF25/35/50 PLA-RP50/60/71	SEZ-KD25/35/50/60/71 PEAD-RP50/60/71	PCA-RP50/60/71	91
up to 5 indoor units MXZ-5E102VA	0	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-KF25/35/50 PLA-RP50/60/71	SEZ-KD25/35/50/60/71 PEAD-RP50/60/71	PCA-RP50/60/71	91
up to 4 indoor units MXZ-4E83VA	0	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-KF25/35/50 PLA-RP50/60/71	SEZ-KD25/35/50/60/71 PEAD-RP50/60/71	PCA-RP50/60/71	91
up to 4 indoor units MXZ-4E72VA		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-KF25/35/50 PLA-RP50/60	SEZ-KD25/35/50/60 PEAD-RP60	PCA-RP50/60	91
up to 3 indoor units MXZ-3E68VA	0	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-KF25/35/50 PLA-RP50/60	SEZ-KD25/35/50/60 PEAD-RP60	PCA-RP50/60	91
up to 3 indoor units MXZ-3E54VA		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-KF25/35/50 PLA-RP50	SEZ-KD25/35/50 PEAD-RP50	PCA-RP50	91
up to 2 indoor units MXZ-2D53VA (H)2		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-KF25/35	SEZ-KD25/35		91
up to 2 indoor units MXZ-2D42VA2	0	4.2kW <1-phase>	MSZ-FH25/35 MSZ-EF18/22/25/35 MSZ-SF15/20/25/35	MFZ-KJ25/35	MLZ-KA25/35 SLZ-KF25/35	SEZ-KD25/35		91
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-KF25	SEZ-KD25		91
up to 3 indoor units MXZ-3DM50VA	0	5.0kW <1-phase>	MSZ-HJ25/35/50 MSZ-DM25/35					93
up to 2 indoor units MXZ-2DM40VA	0	4.0kW <1-phase>	MSZ-HJ25/35 MSZ-DM25/35					93
up to 4 indoor units MXZ-4E83VAHZ	0	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-KF25/35/50 PLA-RP50/60/71	SEZ-KD25/35/50/60/71 PEAD-RP50/60/71	PCA-RP50/60/71	113
up to 2 indoor units MXZ-2E53VAHZ	0	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-KF25/35	SEZ-KD25/35		113

# **POWERFUL HEATING SERIES**

# **INVERTER Models**

Madal Nam	Model Name			3.5kW	5.0kW	5.3kW	7.1kW	8.3kW	10.0kW	12.5kW	Page
iviodei ivan				1-phase	1-phase	1-phase	1-phase	1-phase	1- & 3-phase	3-phase	rage
4-way cassette		PLA Series							SINGLE	SINGLE	101/107
ZUBADAN	Wall-mounted	PKA Series							SINGLE		101/109
	Ceiling-concealed	PEAD-JA Series							SINGLE	SINGLE	101/110
Wal	II-mounted	MSZ-FH VEHZ Series	SINGLE	SINGLE	SINGLE						103/111
Compact floor		MFZ-KJ VEHZ Series	SINGLE	SINGLE	SINGLE						112
Multi split		MXZ-E VAHZ Series				2PORT H		4PORT H			105/114

# LINE-UP

# P SERIES

# POWER INVERTER Models

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

# STANDARD INVERTER Models

Model Name		3.5kW	5.0kW	6.0kW	7.1kW
Woder Name		1-phase	1-phase	1-phase	1-phase
4-way cassette	PLA Series	SINGLE	SINGLE	SINGLE	(SINGLE)
Cailing assessed	PEAD-JA Series	SINGLE	SINGLE	SINGLE	SINGLE
Ceiling-concealed	PEA Series				
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				

## **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 QUADRUPLE			67
SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE			73
			SINGLE	SINGLE	(SINGLE)*	(SINGLE*	76
SINGLE	TWIN	TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TRIPLE			78
SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE DUADRUPLE	TWIN TRIPLE DUADRUPLE			81
		TWIN		TRIPLE			82
SINGLE	SINGLE	SINGLE	TWIN	TWIN TRIPLE			86

 $\boldsymbol{*}$  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			67
SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE			73
			SINGLE	SINGLE	SINGLE*	(SINGLE*	76
SINGLE	TWIN	TWIN TRIPLE	TWIN TRIPLE OUADRUPLE	TRIPLE			78
SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE			81
		TWIN		TRIPLE			82
(SINGLE)	SINGLE	SINGLE TWIN	(TWIN)	TWIN TRIPLE			86

# **NEW ECODESIGN DIRECTIVE**

# WHAT IS THE ErP DIRECTIVE?

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

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

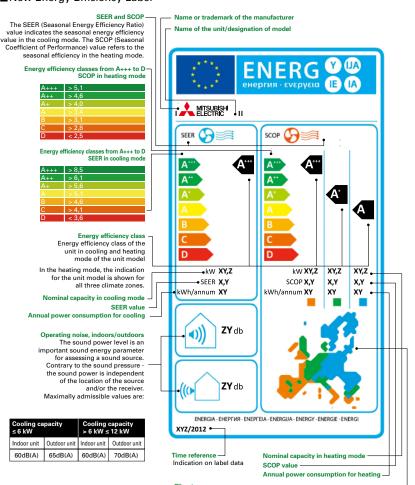
# **NEW ENERGY LABEL AND MEASUREMENTS**

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

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

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

### ■New Energy Efficiency Label



For heating mode, the EU is divided into three climate zones for calculation and classification purposes. This aims at calculating the energy efficiency taking into consideration the actual regional ambient temperatures.

### ■Climate Zones for Heating Mode

Reference climate zones for calculating the SCOP
Since the climate conditions have a great influence on the operating behaviour in the heat pump mode, three climate zones have been stipulated for the EU: warm, moderate, cold. The measurement points are homogenous at 12°C, 7°C, 2°C and -7°C.



Varm (Athe	ens)		
	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

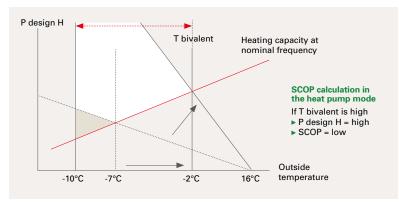
Moderate (	Moderate (Strasbourg)									
	Temperature conditions									
Partial	Outdoors		Indoors							
load	DB	WB	DB							
88%	-7°C	-8°C	20°C							
54%	2°C	1°C	20°C							
35%	7°C	6°C	20°C							
15%	12°C	11°C	20°C							

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

# SEER/SCOP

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

### **■SCOP Calculation**



# Technical Terms with Respect to the SCOP

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

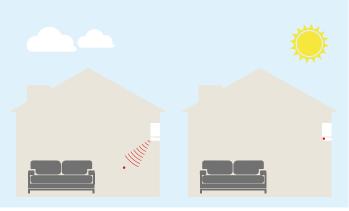
**T design:** Outside temperature which determines the P design H point. The latter is determined from the area conditions.

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

# SOUND PRESSURE LEVEL

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

## ■Sound Pressure vs Sound Power Level



### Sound pressure level dB(A)

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

### Sound power level dB(A)

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

# Inverter INVERTER TECHNOLOGIES

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

# INVERTERS — HOW THEY WORK

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

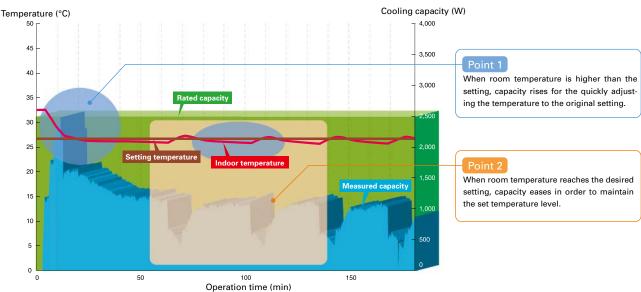
# **ECONOMIC OPERATION**

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

# TRUE COMFORT

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.







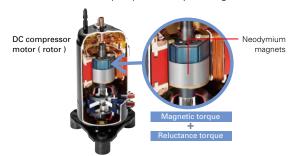
# Magnetic Flux Vector Sine Wave Drive

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.

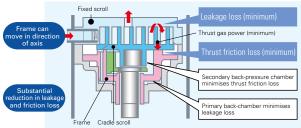




# Highly Efficient DC Scroll Compressor

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

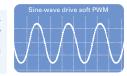
A highly efficient DC motor drives the fan of the outdoor unit. Efficiency is much higher than an equivalent AC motor.

# 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.

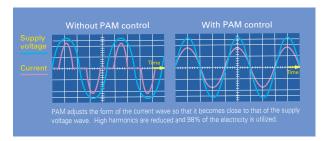
### Smooth wave pattern

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)

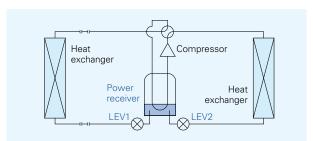
PAM is a technology that controls the current waveform so that it resembles the supply voltage wave, thereby reducing loss and realising more efficient use of electricity. Using PAM control, 98% of the input power supply is used effectively.





# Power Receiver and Twin LEV Control

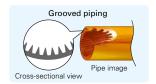
Mitsubishi Electric has developed a power receiver and twin linear expansion valves (LEVs) circuit that optimise compressor performance. This technology ensures optimum control in response to operating waveform and outdoor temperature. Operating efficiency has been enhanced by tailoring the system to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





# **Grooved Piping**

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

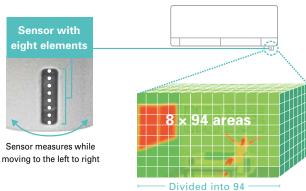


# **FUNCTIONS (1)**

# i-see Sensor

# 3D Fsee Sensor for M SERIES

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.

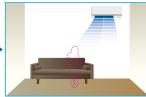




### **Absence Detection**

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.





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.

# 3D i-see Sensor for S SERIES

## Detects number of people

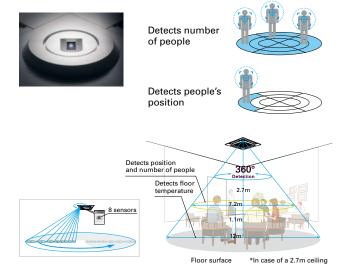
The 3D i-see Sensor detects the number of people in the room and adjusts the power accordingly. This makes automatic power-saving operation possible in places where the number of people changes frequently. Additionally, when the area is continuously unoccupied, the system switches to a more enhanced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

# Detects people's position

Once a person is detected, the angle of the vane is automatically adjusted. Each vane can be independently set to "Direct Airflow" or "Indirect Airflow" according to taste.

### Highly accurate people detection

A total of eight sensors rotate a full 360° in 3-minute intervals. In addition to detecting human body temperature, our original algorithm also detects people's positions and the number of people.



# Detects number of people

# Room occupancy energy-saving mode

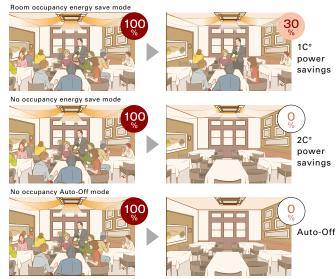
The 3D i-see Sensor detects the number of people in the room. It then calculates the occupancy rate based on the maximum number of people in the room up to that point in time in order to save air-conditioning power. When the occupancy rate is approximately 30%, air-conditioning power equivalent to 1°C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

# No occupancy energy-saving mode

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

# No occupancy Auto-OFF mode

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



\*PAR-32MAA is required for each setting

# Detects people's position

# Direct/Indirect settings\*

The horizontal airflow spreads across the ceiling. When set to "Indirect Airflow" uncomfortable drafty-feeling is eliminated completely!



\*PAR-32MAA is required for each setting.

# Seasonal airflow\*

## When cooling

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

## When heating

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



Cooling mode

\*PAR-32MAA is required for each setting.

# 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.

# Daytime Warmer area



# **ENERGY-SAVING**



# **Econo Cool Energy-Saving Feature**

"Econo Cool" is an intelligent temperature control feature that adjusts the amount of air directed towards the body based on the air-outlet temperature. The setting temperature can be raised by as much as 2°C without any loss in comfort, thereby realising a 20% gain in energy efficiency. (Function only available during manual cooling operation.)

	Conventional	Econo Cool
Ambient temperature	35°C	35°C
Set temperature	25°C	27°C
Perceived temperature	30°C	29.3°C

### Econo Cool Mode

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

Econo Cool on



Conventional cooling mode



### Demand Control

# 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

Temperature distribution (°C)

# **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.



# Fresh-air Intake

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



# High-efficiency Filter

This high-performance filter has a much finer mesh compared to standard filters, and is capable of capturing minute particulates floating in the air that were not previously caught.



# Air Purifying Filter

The filter has a large capture area and deodourise the circulating air.

# Catechin

# 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.

# Silver-ionized Air Purifier Filter

Captures the bacteria, pollen and other allergens in the air and neutralises them.

# **AIR DISTRIBUTION**



# Double Vane

Double vane separates the airflow in the different directions to deliver airflow not only across a wide area of the room, but also simultaneously to two people in different locations.

# Horizontal Vane

The air outlet vane swings up and down so that the airflow is spread evenly throughout the room.

# Vertical Vane

The air outlet fin swings from side to side so that the airflow reaches every part of the room.

# High Ceiling Mode

In the case of rooms with high ceilings, the outlet-air volume can be increased to ensure that air is circulated all the way to the floor.

# Low Ceiling Mode

If the room has a low ceiling, the airflow volume can be reduced for less draft.

# ₩ Auto Fan Speed Mode

The airflow speed mode adjusts the fan speed of the indoor unit automatically according to the present room conditions.

# **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.







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

### Q≑Ö ACO

# Auto Changeover

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



# Low-temperature Cooling

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



# Ampere Limit Adjustment

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

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



# **Operation Lock**

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**

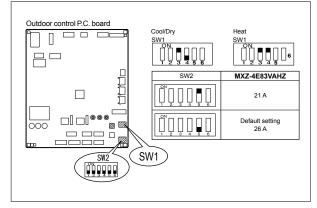
Especially useful at the time of power outages, the unit turns back on automatically when power is restored.



# 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-5E102)



# **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)

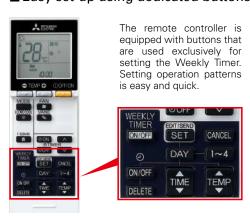
600 800 1000 1200	ON 20°C	ON 20°C	ON 20°C Automatically change	ON 20°C es to high-power opera	ON 20°C tion at wake-up time	ON 20°C	ON 20°C
8:00 10:00	OFF		Automatically change	es to high-power opera	tion at wake-up time		
10:00	OFF						
16:00		OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
14:00		Automatio	cally turned off during v	work hours		Midday is warmer, so the temperature	e is set lower
1P: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 20:00		Automatically tur	ns on, synchronized w	ith arrival at home		Automatically raises tem match time when outsid	nperature setting to de-air temperature is low
	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	at night	

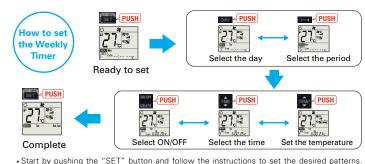
**Settings** 

Pattern Settings: Input up to four settings for each day

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

# ■ Easy set-up using dedicated buttons -





- 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-32MAA/PAC-YT52CRA

Units are compatible for use with the PAR-32MAA or PAC-YT52CRA remote controller, which has a variety of management functions.



# Group Control 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 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.

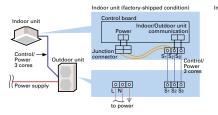
# Wiring Reuse of Existing Wiring

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

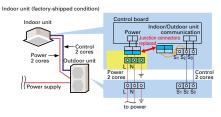
The wiring method has been improved, making it possible to use methods different from that utilized for control and power supply. Units are compatible with the dual harness control line/power line method and the separate power supply method. Using a power supply terminal kit, wire can be efficiently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

\*Optional. Usage may be limited due to wiring type diameter.

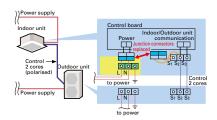
### Single Harness Control/Power Line Method (Current method)



### **Dual Harness Control Line/Power Line Method**



### Separate Power Supply Method



# Wiring/Piping Correction Function\*

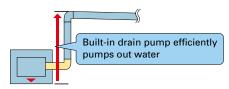
The push of a single button is all that is required to confirm that piping and wiring are properly connected. Corrections are made automatically if a wiring error is detected, eliminating the need for complicated wiring confirmation work when expanding the number of rooms served

\* This function cannot be used when the outdoor temperature is below 0°C. The correction process requires 10-20 minutes, and only works when the unit is set to the Cooling mode.

# matches pipes and wir

# **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





# **MAINTENANCE**



# Self-Diagnostic Function (Check Code Display)

Check codes are displayed on the remote controller or the operation indicator to inform the user of malfunctions detected.



# Failure Recall Function

Operation failures are recorded, allowing confirmation when needed.

# MELCloud (WiFi interface)

### MELCloud for fast, easy remote control and monitoring

MELCloud is a Cloud-based solution for controlling air-conditioner either locally or remotely by computer, tablet or smartphone via the Internet. Setting up and remotely operating via MELCloud is simple and straight forward. All you need is wireless computer connectivity in your home or the building where the air-conditioner is installed and an Internet connection on your mobile or fixed terminal. To set up the system, the router and the 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 air-conditioner via MELCloud from virtually anywhere an Internet connection is available.

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

## Key control and monitoring features

- Turn system on/off
- See status of operating & adjust set point
- Live weather feed from your location

Schedule timer - Set 7 day weekly schedule Error status











MELCloud uses the MAC-557 IF-E interface

# **FUNCTION LIST (1)**

Category	Icon													M SER											
	nation	Indoor unit		MS	Z-FH25	/35/50\	/E2		MSZ-	-EF18/2	2/25/35	5/42/50\	/E3(W)	(B)(S)		MSZ	Z-SF15/	20VA			MSZ	-SF25/3	35/42/50	OVE3	
	Combination	Outdoor unit	MUZ -FH	MXZ -2D/E	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	MUZ -EF	MXZ -2D/E	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	MXZ -2D/E	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	MUZ -SF	MXZ -2D/E	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D
chnology	DC Inverter		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Joint Lap DC Motor	•	•	•	•	72/83VA	•		•	•	•	72/83VA	•		•	•	72/83VA	•		•	•	•	72/83VA	•	
	Magnetic Flux Vector	Sine Wave Drive																							
	Reluctance DC Rotar	y Compressor				83	•	•				83	•	•			83	•	•				83	•	•
	Highly Efficient DC S	croll Compressor																							
	Heating Caulking (C	Compressor)	•	•	•	72/83VA	•		•	•	•	72/83VA	•		•	•	72/83VA	•			•	•	72/83VA	•	
	DC Fan Motor		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Vector-Wave Eco II	nverter																							
	PAM (Pulse Amplitu	ude Modulation)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Power Receiver and	Twin LEV Control			•	72						72				•	72					•	72		
	Grooved Piping		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
i-see Sensor	Felt Temperature Contr	ol (3D i-see Sensor)	•	•	•	•	•	•																	
	AREA Temperature	Monitor	•	•	•	•	•	•																	
Energy Saving	Econo Cool Energy	-saving Feature	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9	Standby Power Co	nsumption Cut	•						•											•					
	Demand Function																								
Attractive	Pure White		•	•	•	•	•	•	VEW	VEW	VEW	VEW	VEW	VEW	•	•	•	•	•	•	•	•	•	•	•
	Auto Vane		•	•		•		•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•
Air Quality	Plasma Quad		•	•	•	•	•	•																	
	Fresh-air Intake																								
	Silver-ionized Air Pu	ırifier Filter	•	•	•	•	•	•	•	•	•	•	•	•						Opt	Opt	Opt	Opt	Opt	Opt
	High-efficiency Filte	er																							
	Catechin Filter																								
	Air Purifying Filter								•	•	•	•	•	•						•	•	•	•	•	•
	Oil Mist Filter																								
	Long-life Filter																								
	Filter Check Signal																								
Air Distribution	Double Vane		•	•	•	•	•	•																	
Distribution	Horizontal Vane		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Vertical Vane		•	•	•	•	•	•																	
	High Ceiling Mode																								
	Silent Mode																								
	Auto Fan Speed M	ode	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Convenience	On/off Operation Ti	mer	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Convenience	"i save" Mode		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Auto Changeover		•	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	•	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	• *1	•*1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	•	●*1	●*1	<b>•</b> *1	• *1	• *1
	Auto Restart		•	•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Low-temperature C	ooling	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Low-noise Operation			•	•	•	•	•		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•
	Ampere Limit Adjus	tment		2E		83	•	•		2E		83	•	•	2E		83	•	•		2E		83	•	•
	Operation Lock			•	•	•	•	•		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•
	Built-in Weekly Tim		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Rotation, Back-up and 2nd																								
System Control	PAR-32MAA Contro	ol *3	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 Co		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/Off		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 Con		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	*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	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2		<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>*</b> 2		<b>*</b> 2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2
Installation	Cleaning-free Pipe	Reuse	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Reuse of Existing V	Viring																							
	Wiring/Piping Corre	ection Function		•	•	•		•		•	•	•	•	•		•	•	•	•		•	•	•	•	•
	Drain Pump																								
	Pump Down Switch	1																							
	Flare Connection		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Maintenance	Self-Diagnosis Function (	Check Code Display)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•
		tion	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

<sup>\*1</sup> When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible.
\*2 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on page 97 for details.
\*3 Please refer to "System Control" on pages 31-32 for details.

<sup>\*4</sup> Please refer to page 18 for details.

												M s	ERIES									
	MSZ-	-GF60/7	1VE2		MSZ	Z-DM25/3	85VA	MSZ-	·HJ25/35	/50VA	MSZ- HJ60/ 71VA			<j25 35="" <="" th=""><th>50VE2</th><th></th><th></th><th></th><th>MLZ-ł</th><th>(A25/35/</th><th>/50VA</th><th></th></j25>	50VE2				MLZ-ł	(A25/35/	/50VA	
MUZ -GF	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	MUZ -DM	MXZ -2DM	MXZ -3DM	MUZ -HJ	MXZ -2DM	MXZ -3DM	MUZ -HJ	MUFZ -KJ	MXZ -2D/E	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	MXZ -2D/E	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	72/83VA	•		•	•	•	•	•	•	•	•	•	•	72/83VA	•		•	•	72/83VA	•	
		83	•	•											83	•	•			83	•	•
		70/00//4			35			35							70/00/4					70,000,14		
•	•	72/83VA	•	•	•	•	•	50	•	•	•	•	•	•	72/83VA	•	•	•	•	72/83VA	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	72	•	•	•	•	•	•	•	•	•	•	•	•	72	•	•	•	•	72	•	•
	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•
•												•										
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Opt	Opt	Opt	Opt	Opt								•	•	•	•	•	•	Opt	Opt	Opt	Opt	Opt
																		Opt	Opt	Opt	Opt	Opt
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•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
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					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1								<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1
•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•		•	•		•	•			•	•	•	•	•	•	•	•	•	•
	•	83	•	•		•	•		•				2E	•	83	•	•	2E	•	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
	<b>•</b> *2	<b>*</b> 2	<b>•</b> *2	<b>•</b> *2		<b>•</b> *2	<b>•</b> *2		<b>•</b> *2	<b>*</b> 2			<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•	•	•	•		•	•		•	•			•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•			•					•	The figur	oc listed	in the tal	olo aro "c	only who	o combin	od with a	n outdo	•	th the on	•	•	

The figures listed in the table are "only when combined with an outdoor unit with the appropriate capacity range".
 Opt: Separate parts must be purchased.

# **FUNCTION LIST (2)**

Category	Icon								S se	RIES									Psi	ERIES				
		tion	Indoor unit		SLZ-	KF25/35	5/50/60V	12 *5			SEZ-KE	25/35/50	0/60/71V	AL/VAQ			PL	A-(Z)RP	35/50/60	0/71/100/	125/140	ВА		
		Combination	Outdoor unit	SUZ -KA	MXZ -2D/E	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	SUZ -KA	MXZ -2D/E	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	PUHZ -SHW	PUHZ -ZRP	PUHZ -P	SUZ -KA	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	
echnology	DC Inverter			•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Joint Lap DC Mot	tor		•	•	•	72/83VA	•		•	•	•	72/83VA	•			35-71		•	•	72/83VA	•		
	Magnetic Flux Vect		Sine Wave Drive													•	•	•						
	Reluctance DC Rot						83	•	•				83	•	•			100-140			83	•	•	
	Highly Efficient DC	Scr	oll Compressor													•	100-250	200/250						
	Heating Caulking	g (Co	ompressor)	•	•	•	72/83VA	•		•	•	•	72/83VA	•			35-71		•	•	72/83VA	•		
	DC Fan Motor			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Vector-Wave Eco	o Inv	verter .													•	•	•						
	PAM (Pulse Amp	lituc	de Modulation)	•	•	•	•	•	•	•	•	•	•	•	•	•	35-140	100-140	•	•	•	•	•	
	Power Receiver an	nd Tv	win LEV Control			•	72					•	72			•	35-140			•	72			
	Grooved Piping			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
i-see Sensor	Felt Temperature Co	ntrol	(3D i-see Sensor)	Opt	Opt	Opt	Opt	Opt	Opt															
	AREA Temperatu	ıre l	Monitor	Opt	Opt	Opt	Opt	Opt	Opt															
Energy Saving	Demand Function	n														Opt	Opt	Opt						
Attractive	Pure White			•	•	•	•	•	•							•	•	•	•	•	•	•	•	
	Auto Vane			•	•	•	•	•	•							•	•	•	•	•	•	•	•	
Air Quality	Fresh-air Intake			•	•	•	•	•	•							•	•	•	•	•	•	•	•	
	High-efficiency Fi	ilter														Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	Oil Mist Filter																							
	Long-life Filter			•	•	•	•	•	•							•	•	•	•	•	•	•	•	
	Filter Check Sign	nal		•	•	•	•	•	•							•	•	•	•	•	•	•	•	
Air	Horizontal Vane			•	•	•	•	•	•							•	•	•	•	•	•	•	•	
Distribution	Vertical Vane			•	•	•	•	•	•															
	High Ceiling Mod	de		•	•	•	•	•	•							•	•	•	•	•	•	•	•	
	Low Ceiling Mode	le														•	•	•	•	•	•	•	•	
	Auto Fan Speed	Mod	de	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Convenience	On/off Operation	Tim	ner	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Auto Changeover	r		•	<b>•</b> *1	●*1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	•	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	•	•		•	<b>•</b> *1	<b>●</b> *1	<b>•</b> *1	<b>●</b> *1	
	Auto Restart			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
su	Low-temperature	Co	oling	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Functions	Low-noise Opera	ation	(Outdoor Unit)		•	•	•	•	•		•	•	•	•	•	•	•	•		•	•	•	•	
Ī	Ampere Limit Adj	justr	ment		2E		83	•	•		2E		83	•	•	112/140	60-140V 200/250				83	•	•	
	Operation Lock				•	•	•	•	•		•	•	•	•	•					•	•	•	•	
	Rotation, Back-up and 2	2nd S	Stage Cut-in Functions													Opt	Opt	Opt						
	Dual Set Point *7	7															•	200/250						
System	PAR-32MAA Con	ntrol	*3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
Control	PAC-YT52CRA C	Cont	trol *3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	Centraliesd On/O	Off C	Control *3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	System Group Co	ontr	ol *3	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	
	COMPO *4															•	71-250	•						
	MXZ Connection	ı			<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2		<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2					<b>•</b> *2	•*2	<b>•</b> *2	<b>*</b> 2	
Installation	Cleaning-free Pip	pe F	Reuse	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Reuse of Existing	g W	iring													Opt	Opt	Opt						
	Wiring/Piping Cor	rrec	tion Function		•	•	•	•	•		•	•	•	•	•					•	•	•	•	
	Drain Pump			•	•	•	•	•	•	Opt	Opt	Opt	Opt	Opt	Opt	•	•	•	•	•	•	•	•	
	Pump Down Swit	tch														•	•	•						
	Flare Connection	1		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Maintenance	Self-Diagnosis Functio	on (C	heck Code Display)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Maintenance	_	,																						_

<sup>\*2</sup> For the possible connectivity of MX2 outdoor units, please refer to the list on page 97 for details.

\*3 Please refer to "System Control" on pages 31-32 for details.

\*4 Please refer to page 18 for details.

SEZ-NF00VAZ Carlin be commercian to MXZ.
 PEAD-RP JALQ are not equipped with a drain pump.
 This function is only available with PAR-32MAA, PAC-YT52CRA.

								PE	Δ.			PSE	RIES		l							Γ			
	PEA	D-RP35	/50/60/7	1/100/12	25/140JA	(L)Q		RP20 /400/50	0/250	RP35/	KA- /50HAL	PKA-R	P60/71/1	100KAL		PCA-F	RP35/50/	60/71/10	00/125/14	10KAQ		PCA-RP	71HAQ	PSA-F 100/125	
PUHZ -SHW	PUHZ -ZRP	PUHZ -P	SUZ -KA	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	PUHZ -ZRP	PUHZ -P	PUHZ -ZRP	PUHZ -P	PUHZ -SHW	PUHZ -ZRP	PUHZ -P	PUHZ -ZRP	PUHZ -P	SUZ -KA	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	PUHZ -ZRP	PUHZ -P	PUHZ -ZRP	PUHZ -P
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	35-71		•	•	72/83VA	•				35-71			60-71		50-71		•	•	•	•	•	71		71	
•	•	•						•	•	•	•	•	•	•	•	•						•	•	•	•
		100-140			83	•	•				100-140			100-140		100-140			83	•	•		100/125		100-140
•	100-250	200/250						•	•	100-200	200	•		200/250		200/250						100-250	250	100-250	200/250
	35-71		•	•	72/83VA	•				35-71			35-71		35-71		•	•	72			35-71		35-71	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	05.440	100.110	•	•	•	•	•			05.440	100.110	•	00.440	100.110	50.440	100.110	•	•		•	•	74.440	105/140	74.440	100.110
•	35-140 35-140	100-140		•	72					35-140 35-140	100-140	•	60-140	100-140	35-140	100-140		•	72	•	•	71-140	125/140	71-140	100-140
•	33-140	•	•	•	•	•	•	•	•	33-140	•	•	00-140	•	33-140	•	•	•	•	•	•	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				
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•	•	•	•	•	•	•	•								•	•	•	•	•	•	•			•	•
•	•	•	•	•	•	•	•			Opt	Opt	Opt	Opt	Opt	•	•	•	•	•	•	•	•	•	•	•
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•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	<b>•</b> *1	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•		•	•	•	•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•	•
110/140	60-140V				83	•	•	•		60-140V	•	112/140	60-140V	_	60-140V			•	83	•	•	71-140V	•	71-140V	
112/140	200/250				03					200/250		112/140	200/250		200/250			•	00	•	•	200/250		200/250	
Opt	Opt	Opt								Opt	Opt	Opt	Opt	Opt	•	•		•	•	•	•	•	•		
- 20	Орг	200/250						•	•	•	200	- Pr		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	Opt	Opt	Opt	Opt
•	•	•	Opt	Opt	Opt	Opt	Opt	•	•	Opt	Opt	Opt	Opt	Opt	•	•	Opt	•	•	•	•	•	•	Opt	Opt
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
•	71-250	•								71-250	•	•	71-250	•	71-250	•						71-250	•	71-250	•
				<b>•</b> *2	<b>*</b> 2	<b>•</b> *2	<b>*</b> 2											<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2				
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Opt	Opt	Opt								Opt	Opt	Opt	Opt	Opt	Opt	Opt						Opt	Opt	Opt	Opt
				•	•	•	•											•	•	•	•				
<b>•</b> *6	<b>•</b> *6	<b>•</b> *6	<b>•</b> *6	<b>•</b> *6	<b>•</b> *6	<b>•</b> *6	<b>•</b> *6			Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt				
•	•	•						•	•	•	•	•	•	•	•	•						•	•		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•		•	•	•	•	•	•		•		•			•	•	•		•	e feature	•	•		•	•	•

<sup>If a numerical figure is listed, the feature is only available with the outdoor unit of that capacity.
Opt: Optional parts must be purchased.</sup> 

# **CONTROL TECHNOLOGIES**



# **User-friendly Deluxe Remote Controller with Excellent Operability and Visibility**

### PAR-32MAA

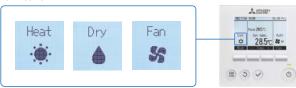
### Easy To Read & Easy To Use

## 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



## Control panel operation in eight different languages

Choose the desired language, among the following languages.

PAR-32MAA			
English	Spanish	Italian	Turkish
French	Greek	Portuguese	Swedish
PAR-32MAAG			
English	German	French	Russian
Polish	Czech	Hangarian	Dutch

# Temperature Control



# Two preset temperatures

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

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



<sup>\*</sup>Please refer to the function list on pages 23-24 for the combination of the available units

### **Energy-efficient Control**

# **Operation Control Functions**

Energy-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

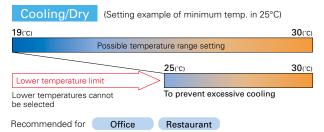
This function monitors the room temperature and automatically activates the heating mode when the temperature drops below the preset minimal temperature setting. It has the same function for cooling, automatically activating the cooling mode when the temperature rises above the preset maximum temperature 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

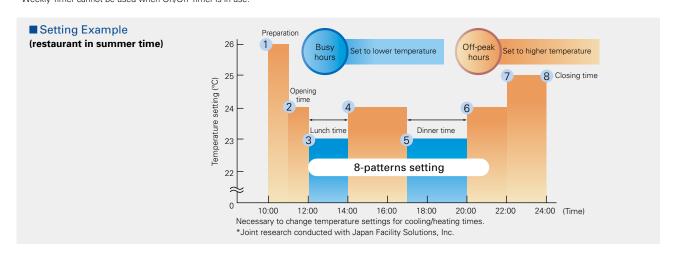
Hospital Computer server facility

Weekly Timer

# 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.

\*Weekly Timer cannot be used when On/Off Timer is in use.



# **CONTROL TECHNOLOGIES**

# Installation/Maintenance Support Functions



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

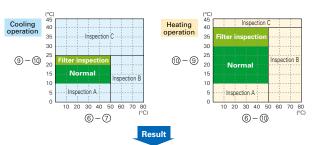
	Compressor	6	OU TH4 temp. (°C)
1	COMP. current (A)	7	OU TH6 temp. (°C)
2	COMP. run time (Hr)	8	OU TH7 temp. (°C)
3	COMP. ON/OFF (times)		Indoor Unit
4	COMP. frequency (Hz)	9	IU air temp. (°C)
	Outdoor Unit	100	IU HEX temp. (°C)
(5)	Sub cool (°C)	11	IU filter operating time* (Hr)

<sup>\*</sup>IU filter operating time is the time elapsed since filter was reset.

# Inspection Guidelines

The computed temperature difference is plotted as in the graph below and operating status is determined.

		ltem
Caalina		(⑥ OU TH4 temp.) – (⑦ OU TH6 temp.)
Cooling	Temp. difference	(9 IU air temp.) – (10 IU HEX temp.)
Hantin n		(⑥ OU TH4 temp.) – (⑩ IU HEX temp.)
Heating		(@ IU HEX temp.) – (@ 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
- The above graphs are based on trial data. Results may vary depending on installation/temperature conditions.
   Stable operation may not be possible under the following temperature conditions:

   a) In cooling mode when the outdoor induction temperature is over 40°C or the indoor induction temperature is below 23°C.
   b) In heating mode when the outdoor induction temperature is over 20°C or when the indoor induction temperature is over 25°C.
   of the above temperature conditions do not apply and stable operation is not achieved after 30 minutes has passed, please inspect the units.
   The operating status may change due to frost on the outdoor heat exchanger.

Manual Vane Angle Setting (4-way ceiling cassette)

## Direction of vertical airflow for each vane can be set

Setting the vertical airflow direction for each individual vane can be performed simply via illustrated display. Seasonal settings such as switching between cooling and heating are easily changed as well.

Autodescending **Panel** Operation

## Easily raise/lower panels using the remote controller

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



### 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



### Three outdoor noise level setting

The outdoor noise level can be reduced on demand according to the surrounding environment. Select from three setting mode: standard mode (rated), silent mode and ultra-silent mode.



# Password for initial settings

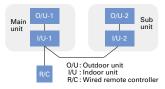
A password is required (default setting is "0000") for initial settings such as time and display language.

# Rotation, Back-up and 2nd Stage Cut-in Functions (PAR-32MAA)

### (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

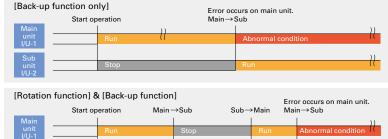
### **Function Outline**

- · 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



# 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 July button will switch the vane direction.



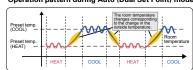
# **★** MEENRE Flat 120mm (4-23/32 in back ○○●変 70mm (2-3/4 in) 14.5mm (9/16 in)

# **Dual Set Point**

# Two preset temperatures

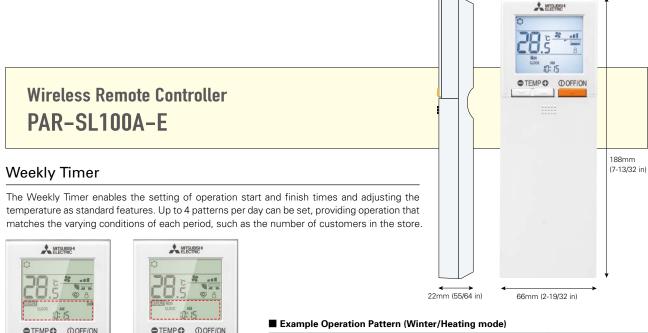
When the operation mode is set to the Auto (Dual Set Point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the COOL or HEAT mode and keep the room temperature within the preset range.

## Operation pattern during Auto (Dual Set Point) mode



- \*Please refer to the function list on pages 23-24 for the combination of the available units
- \* The settable vane directions vary depending on the indoor unit model to be connected.
- \* If the unit has no vane function, the vane direction cannot be set. In this case, the vane icon flashes when the 🏿 🗓 button is pressed.

# **CONTROL TECHNOLOGIES**



	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
c.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 changes to high-power operation at wake-up time						
800							
10:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00	Automatically turned off during work hours				Midday is warmer, so the temperature is set lower		
15:00							
1800	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
2000 2000	Automatically turns on, synchronized with arrival at home Automatically raise match time when or				Automatically raises ten match time when outsid	nperature setting to de-air temperature is low	
(during sleeping	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
hours)	Automatically lowers temperature at bedtime for energy-saving operation at night						

<sup>\*</sup>Weekly Timer cannot be used when On/Off Timer is in use. \*Only for SLZ-KF25/35/50/60VA2

# **Backlight**

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

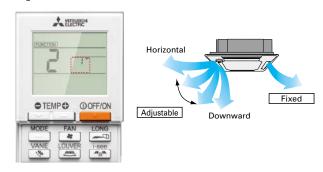
ON/OFF NEEKLY @ EDIT





# Individual Vane Settings

The airflow directions of the four vanes can each be adjusted independently. Easily set the optimum airflow according to the room set-



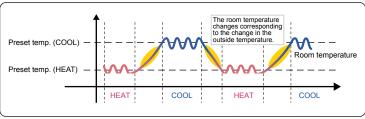
# **Dual Set Point**

When the operation mode is set to the Auto (Dual Set Point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, the indoor unit will automatically operate in either the COOL or HEAT mode and keep the room temperature within the preset range.





### Operation pattern during Auto (Dual Set Point) mode



<sup>\*</sup> Only available for compatible models.

# **Battery Replacement Sign**



Previous wireless remote controllers were not easy to read, understand or use sometimes because the battery was low. Beginning with the PAR-SL100A-E, a battery charge indicator that shows the charge status is included in the LCD so it can be seen when the battery is low and needs to be changed.

# 3D i-see Sensor (Direct/Indirect Airflow)

Pressing the i-see button enables direct or indirect setting of all vanes.





	Vane setting			
	Direct Indirect			
Cooling	horizontal → swing	keep horizontal		
Heating	keep downward	downward → horizontal		





\*Only available for models equipped with 3D i-see Sensor.

# **Basic Functions**

Functions	Button	Liquid crystal		
OFF / ON	① OFF/ON			
Preset temperature	● TEMP ●	<b>88</b> .5		
Mode	MODE	Cool Dry Heat Fan Auto Dual set point *Dual Set Point function not operational first use.		
Fan speed	FAN	Some Some Some Some Some Some Some Some		
Vane angle	VANE	5-step Swing Auto		
3D i-see Sensor	i-see	Direct Indirect		
Send sign		*		
Battery replacement sign				
Function setting		(FUNCTION)		
Test run		TEST		
Self check		CHECK		
Not available		N/A		

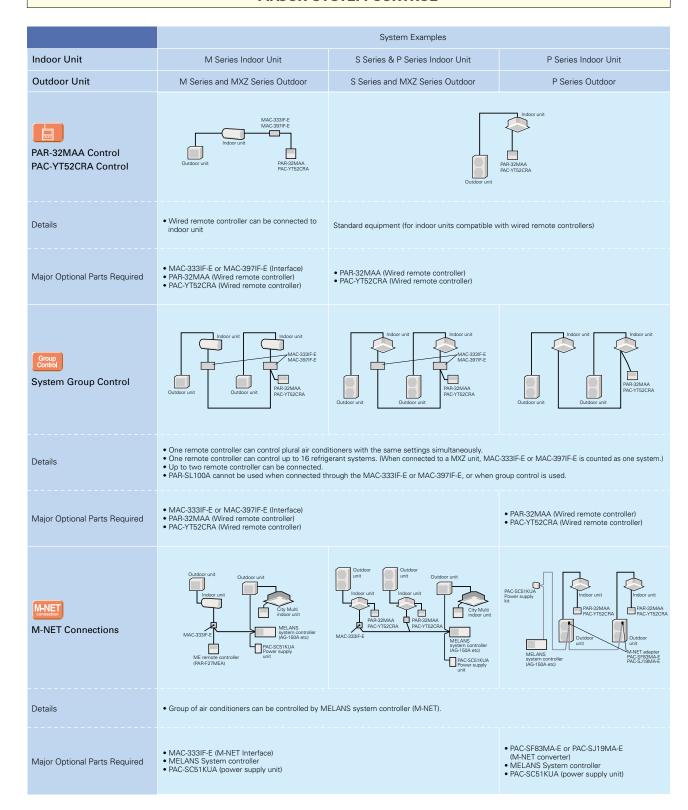
 $<sup>{\</sup>rm *This\ remote\ controller\ is\ only\ compatible\ with\ the\ following\ models:\ SLZ-KF25/35/50/60VA2\ and\ PLFY-P15/20/25/32/40/50-E1.}$ 

<sup>\*</sup>Functions available vary according to the model.

# SYSTEM CONTROL

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

# MAJOR SYSTEM CONTROL

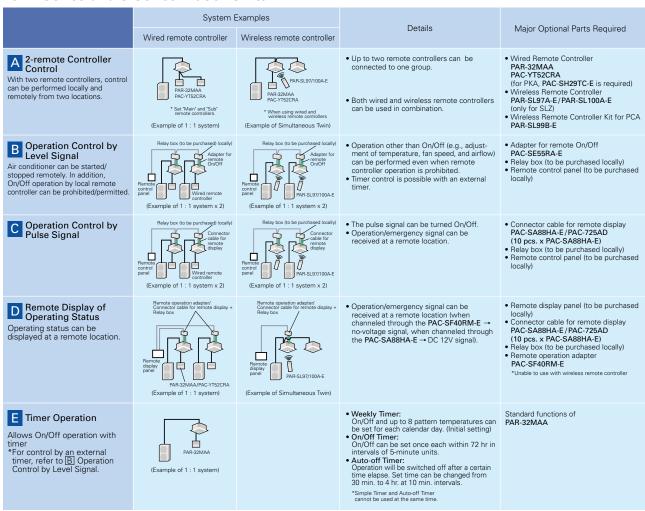


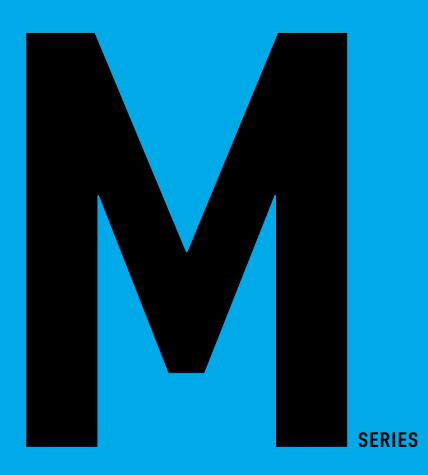
# **OTHERS**

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

		•		
	System Examples	Connection Details	Control Details	Major Optional Parts Required
Remote On/Off Operation  • Air conditioner can be started/ stopped remotely.  ( and ( can be used in combination)	MAC-333IF-E MAC-397IF-E MAC-39	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.  (	MAC-333IF-E Power supply MAC-397IF-E Power supply Resistance LED T 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





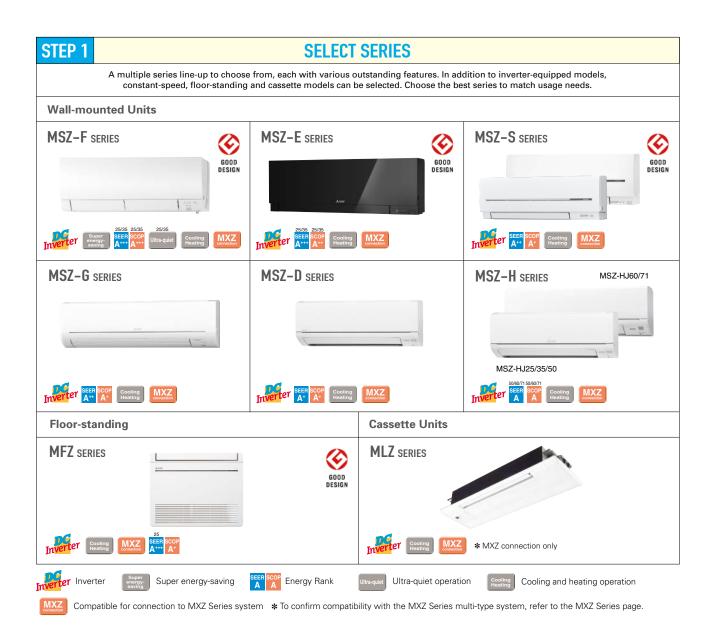






# **SELECTION**

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<sub>SERIES</sub>

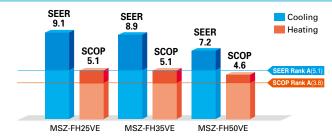
The F Series is designed for optimum cooling/heating performance as well as operational comfort. Quiet, energy-saving operation is supported by some of Mitsubishi Electric's latest technologies. Advanced functions such as "3D i-see Sensor" temperature control and the Plasma Quad air purification system 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  $-25^{\circ}\text{C}$ , 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

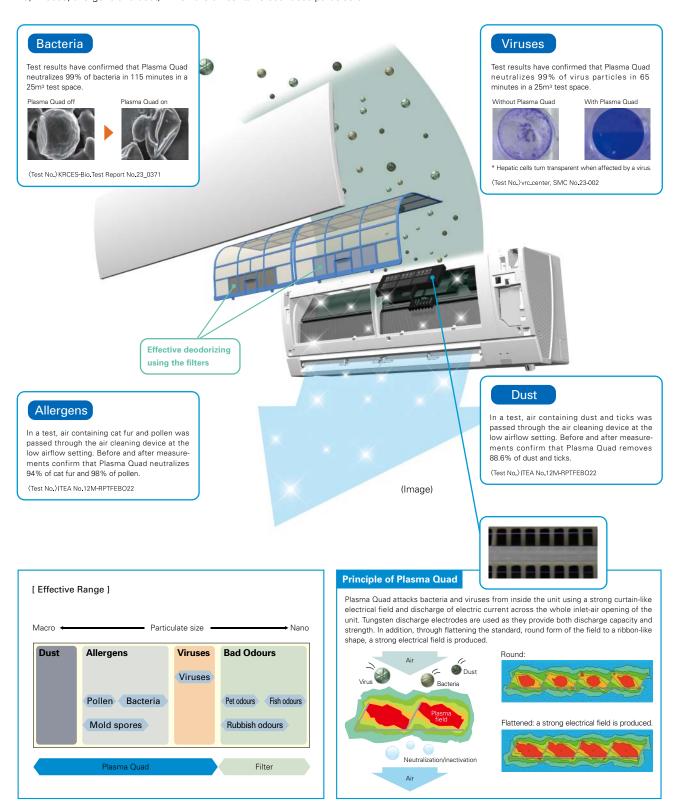
In regions with the following conditions, there is a possibility that water resulting from condensation on the outdoor unit when operating in the heating mode will freeze and not drain from the base.

- 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.

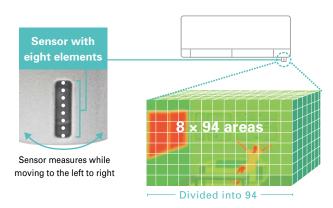


Air, like water, is something we use everyday unconsciously. Yet, clean, fresh air is a vital part of creating a healthy space for humans. Achieving this healthy air is Plasma Quad, a plasma-based filter system that effectively removes four kinds of air pollutants; namely, bacteria, viruses, allergens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



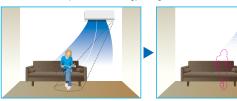
#### **Direct Airflow**

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.

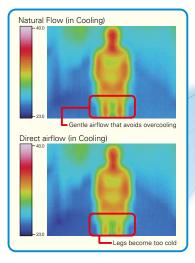


The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60 minutes.

#### **Natural Flow**

24-hour Timer

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

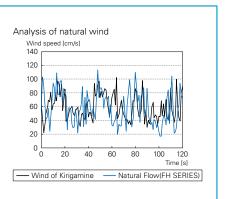
Mitsubishi Electric's double vane separates the airflow in the left and right directions to deliver airflow not only across a wide area of the room, but also simultaneously to two people in different locations

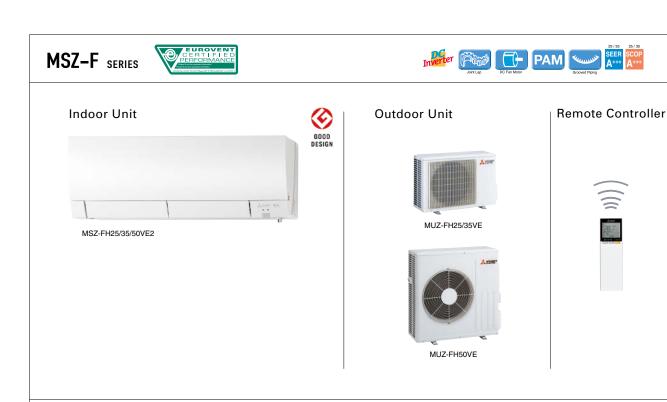
Through realizing airflow that imitates a natural breeze, we have avoided the unpleasant feeling of being hit directly by constant, unnatural airflow.

#### **Base data for Natural Flow**



measuring actual data of natural wind 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.





_							
уре				1407 5 100 50	Inverter Heat Pump	1075,000	
door Ur				MSZ-FH25VE2	MSZ-FH35VE2	MSZ-FH50VE2	
tdoor I				MUZ-FH25VE	MUZ-FH35VE	MUZ-FH50VE	
frigera					R410A <sup>(*1)</sup>		
wer	Source				Outdoor Power supply		
pply	Outdoor (V / Ph	ase / Hz )			230/Single/50	5.0	
	Design load	(44)	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		A+++	A+++	A++	
	Capacity	Rated	kW	2.5	3.5	5.0	
		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	1	kW	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	
	Declared	at reference design temperature		3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	
	Capacity	at bivalent temperature	kW	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	
		at operation limit temperature	kW	2.5(-15°C)	3.2(-15°C)	5.2(-15°C)	
ating	Back up heating		kW	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	
erage	Annual electricity	consumption (*2)	kWh/a	819	986	1372	
ason)(*5)	SCOP (*4)			5.1	5.1	4.6	
L		Energy efficiency class	_	A+++	A+++	A++	
	Capacity	Rated	kW	3.2	4.0	6.0	
		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	
peratin	g Current (Max)		Α	9.6	10.0	14.0	
	Input	Rated	kW	0.029	0.029	0.031	
	Operating Curre		A	0.4	0.4	0.4	
	Dimensions	H*W*D	mm	305(+17)-925-234	305(+17)-925-234	305(+17)-925-234	
door	Weight		kg	13.5	13.5	13.5	
uoor nit	Air Volume (SLo-Lo-	Cooling	m³/min	3.9-4.7-6.3-8.6-11.6	3.9-4.7-6.3-8.6-11.6	6.4-7.4-8.6-10.1-12.4	
	Mid-Hi-SHi <sup>t*3)</sup> (Dry/Wet))	Heating	m³/min	4.0-4.7-6.4-9.2-13.2	4.0-4.7-6.4-9.2-13.2	5.7-7.2-9.0-11.2-14.6	
	Sound Level (SPL)	Cooling	dB(A)	20-23-29-36-42	21-24-29-36-42	27-31-35-39-44	
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	20-24-29-36-44	21-24-29-36-44	25-29-34-39-46	
	Sound Level (PWL)	Cooling	dB(A)	58	58	60	
	Dimensions	H*W*D	mm	550-800-285	550-800-285	880-840-330	
	Weight		kg	37	37	55	
	Air Volume	Cooling	m³/min	31.3	33.6	48.8	
tdoor	· • Oldino	Heating	m³/min	31.3	33.6	51.3	
itaoor it	Sound Level (SPL)	Cooling	dB(A)	46	49	51	
	` ′	Heating	dB(A)	49	50	54	
	Sound Level (PWL)	Cooling	dB(A)	60	61	64	
	Operating Curre	nt (Max)	Α	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	
ct. pina	Max.Length	Out-In	m	20	20	30	
P9	Max.Height	Out-In	m	12	12	15	
uarante	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	
ange (C	Outdoor)	Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	

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



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



#### **Energy-efficient Operation**







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

Rank A for single connection		. ,									
MUZ-EF25/35VE(H) MUZ-FF42/50VF		MXZ									
MUZ-EF42/50VE	2D33VA	2D42VA2	2D53VA2	3E54VA	3E68VA	4E72VA	4E83VA	5E102VA	6D122VA		
_	~	~	<b>&gt;</b>	>	~	~	~	~			
_	~	~	<b>&gt;</b>	>	~	~	~	~	~		
A +++/ A++(A++*)	~	>	>	>	~	>	~	~	~		
A +++/ A++(A+*)		~	<b>&gt;</b>	>	~	~	~	~	<b>_</b>		
A++/A++			<b>&gt;</b>	>	~	~	~	~	~		
A++/A+			<b>&gt;</b>	>	~	~	~	~	~		
	MUZ-EF42/50VE  -  A ***/A**(A***)  A ***/A**  A **/A**	MUZ-EF25/35VE(H) MUZ-EF42/50VE  2D33VA	MUZ-EF25/35VE(H) MUZ-EF42/50VE	MUZ-EF25/35VE(H) MUZ-EF42/50VE	MUZ-EF25/35VE(H) MUZ-EF42/50VE  2D33VA 2D42VA2 2D53VA2 3E54VA	MUZ-EF25/35VE(H) MUZ-EF42/50VE  2D33VA 2D42VA2 2D53VA2 3E54VA 3E68VA  -	MUZ-EF25/35VE(H) MUZ-EF42/50VE  2D33VA 2D42VA2 2D53VA2 3E54VA 3E68VA 4E72VA  -	MUZ-EF25/35VE(H) MUZ-EF42/50VE  2D33VA 2D42VA2 2D53VA2 3E54VA 3E68VA 4E72VA 4E83VA	MUZ-EF25/35VE(H) MUZ-EF42/50VE  2D33VA  2D42VA2  2D53VA2  3E54VA  3E68VA  4E72VA  4E83VA  5E102VA		

#### 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.



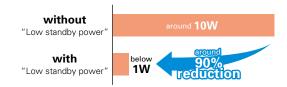
# Superior Exterior and Operating Design Concept

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

(25/35

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



### MSZ-E SERIES











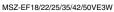






#### Indoor Unit





MSZ-EF18/22/25/35/42/50VE3S



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



#### **Outdoor Unit**



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



#### Remote Controller

















\_# == |

Silver





















Туре



















































Туре							Inverter F	leat Pump			
Indoor Ur	nit			MSZ-EF18VE3	MSZ-EF22VE3	MSZ-EF25VE3	MSZ-EF25VE3	MSZ-EF35VE3	MSZ-EF35VE3	MSZ-EF42VE3	MSZ-EF50VE3
Outdoor	Unit			for MXZ o	onnection	MUZ-EF25VE	MUZ-EF25VEH	MUZ-EF35VE	MUZ-EF35VEH	MUZ-EF42VE	MUZ-EF50VE
Refrigera	nt						R41	OA <sup>(*1)</sup>			
Power	Source						Outdoor Po				
Supply	Outdoor (V / Ph	ase / Hz )						ngle/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)	concumption	T. T. T. G.	_	_	8.5	8.5	8.5	8.5	7.7	7.2
Cooling		Energy efficiency class		_	-	A+++	A+++	A+++	A+++	A++	A++
Cooming		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	nateu	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)
	Design load	1. ( )	_	-		, ,	, ,	, ,	. ,	. ,	, ,
	Declared	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)
	Capacity	at bivalent temperature	_	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)	3.8(-10°C)	4.2(-10°C)
		at operation limit temperature	kW	-	-	2.0(-15°C)	1.6(-20°C)	2.4(-15°C)	1.7(-20°C)	3.4(-15°C)	3.5(-15°C)
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		-	-	A++	A++	A++	A+	A++	A+
	Capacity	Rated	kW	-	-	3.2	3.2	4.0	4.0	5.4	5.8
	Oupdoity	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	nt(Max)	А	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
Unit	Mid-Hi-SHi(1-3)(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
	_	Cooling	m³/min	-	-	32.6	32.6	33.6	33.6	35.2	44.6
	Air Volume	Heating	m³/min	_	_	32.2	32.2	33.6	33.6	33.6	44.6
Outdoor		Cooling	dB(A)			47	47	49	49	50	52
Unit	Sound Level (SPL)	Heating	dB(A)			48	48	50	50	51	52
	Sound Level (PWL)		dB(A)	-	-	58	58	61	61	62	65
	,		- ' '	-	-	7.0	7.0	8.2	8.2	9.2	12.0
	Operating Curre	riit (IVIdX)	A	-							
	Breaker Size	I	Α	-	-	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
Ext. Piping	Max.Length	Out-In	m	-	-	20	20	20	20	20	30
	Max.Height	Out-In	m	-	-	12	12	12	12	12	15
	uaranteed Operating Cooling *C			-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
Range (C	that an took operating					-15 ~ +24	-15 ~ +24				

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

40

# 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.



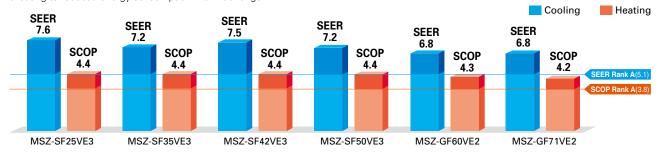
#### "Rank A++/A+" Energy Savings Achieved for Entire Range of Series







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.



MSZ-SF25 / 35 / 42 / 50VE3

#### 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)

45mm less

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.	
5.00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	
6:00			Automatically change	es to high-power opera	tion at wake-up time			
8:00								
(0:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C	
15:00		A	aller to orange all aff allerings.	and become		Midday is warmer,		
14:00		Automatic	ally turned off during v		so the temperature	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	
2000		Automatically turn	ns on, synchronized wi	th arrival at home		Automatically raises ten		
22:00		/ tatornationly tall	15 OH, SYNOHIOHIZOG WI	I I I I I I I I I I I I I I I I I I I		match time when outsid	de-air temperature is low	
(during sleeping hours)	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	
		Automa	tically lowers tempera	ture at bedtime for ene	ergy-saving operation a	t night		

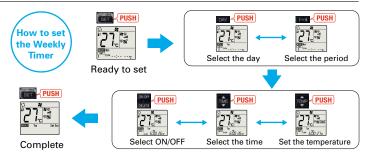
**Settings** 

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 -

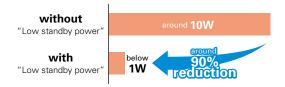




- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired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

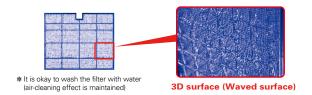
Electrical devices consume standby power even when they are not in actual use. While we obviously strive to reduce power consumption during actual use, reducing this wasted power that cannot be seen is also very important.



#### Air Purifying Filter

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

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



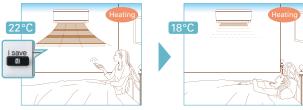
#### Outdoor Units for Cold Region

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.

#### "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.





# Inverter MSZ-S SERIES Remote Controller Indoor Unit Outdoor Unit GOOD DESIGN For MXZ Connection Only MSZ-SF15/20VA Pure White Want Auto Control Want Swing Timer Weekly Timer Save To Auto Restart The Control Co

Туре						Inverter H	leat Pump					
ndoor Ur	nit			MSZ-SF15VA	MSZ-SF20VA	MSZ-SF25VE3	MSZ-SF25VE3	MSZ-SF35VE3	MSZ-SF35VE3			
Outdoor	Unit			for MXZ o	onnection	MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH			
Refrigera	nt					R41	OA(*1)					
Power	Source					Outdoor Po	ower supply					
Supply	Outdoor (V / Ph	ase / Hz )		230/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	kW	-	=	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)			
leating	Back up heating		kW	-	=	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)			
Average	Annual electricity	consumption (*2)	kWh/a	-	-	764	790	923	948			
Season)(*5)	SCOP (*4)			-	-	4.4	4.3	4.4	4.3			
	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			
	Total Input	Rated	kW	-	-	0.780	0.780	1.030	1.030			
peratin	g Current (Max)		А	-	-	8.4	8.4	8.5	8.5			
	Input	Rated	kW	0.017	0.019	0.024	0.024	0.027	0.027			
	Operating Current(Max)		Α	0.17	0.19	0.2	0.2	0.3	0.3			
	Dimensions	H*W*D	mm	250-760-168	250-760-168	299-798-195	299-798-195 299-798-195		299-798-195			
	Weight		kg	7.7	7.7	10	10	10	10			
ndoor Jnit	Air Volume (SLo-Lo-	Cooling	m³/min	3.5 - 3.9 - 4.6 - 5.5 - 6.4	3.5 - 3.9 - 4.6 - 5.5 - 6.9	3.2 - 4.1 - 5.6 - 7.2 - 9.1 3.2 - 4.1 - 5.6 - 7.2 -		3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.			
) I I I	Mid-Hi-SHi(1-3)(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			
	Sound Level (SPL)	Cooling	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 <sup>(16)</sup> - 24 - 30 - 36 - 42	19 <sup>(*6)</sup> - 24 - 30 - 36 - 42	19 <sup>(*6)</sup> - 24 - 30 - 36 - 42	19(16) - 24 - 30 - 36 - 4			
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 <sup>(16)</sup> - 24 - 34 - 39 - 45	19 <sup>(16)</sup> - 24 - 34 - 39 - 45	19 <sup>(16)</sup> - 24 - 34 - 40 - 46	19(16) - 24 - 34 - 40 - 4			
	Sound Level (PWL)	Cooling	dB(A)	59	60	57	57	57	57			
	Dimensions	H*W*D	mm	-	=	550-800-285	550-800-285	550-800-285	550-800-285			
	Weight		kg	-	=	31	31	31	31			
	Air Volume	Cooling	m³/min	-	=	31.1	31.1	35.9	35.9			
S	Aii Volulile	Heating	m³/min	-	=	30.7	30.7	35.9	35.9			
Dutdoor Jnit	Sound Level (SPL)	Cooling	dB(A)	-	=	47	47	49	49			
	Souliu Level (SPL)	Heating	dB(A)	-	=	48	48	50	50			
	Sound Level (PWL)	Cooling	dB(A)	-	=	58	58	62	62			
	Operating Curre	ent (Max)	Α	-	=	8.2	8.2	8.2	8.2			
	Breaker Size		Α	-	=	10	10	10	10			
- I	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. Piping	Max.Length	Out-In	m	-	=	20	20	20	20			
Pilig	Max.Height	Out-In	m	-	=	12	12	12	12			
Guarante	eed Operating	Cooling	°C	-	=	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46			
Range (C	ange (Outdoor) Heating		°C	-	-	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24			

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

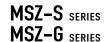
(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) 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).



















Remote Controller

#### Indoor Unit



MSZ-SF25/35/42/50VE3



**Outdoor Unit** 



MUZ-SF25/35/42VE(H)























































Туре						inverter F	leat Pump					
Indoor Ur	nit			MSZ-SF42VE3	MSZ-SF42VE3	MSZ-SF50VE3	MSZ-SF50VE3	MSZ-GF60VE2	MSZ-GF71VE2			
Outdoor l	Jnit			MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH	MUZ-GF60VE	MUZ-GF71VE			
Refrigerar	nt					R41	OA <sup>(*1)</sup>					
Power	Source			Outdoor Power supply								
Supply	Outdoor (V / Ph	nase / Hz )		230/Single/50								
	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)	- Contracting to Cont	I KTTI II C	7.5	7.5	7.2	7.2	6.8	6.8			
Cooling		Energy efficiency class		A++	A++	A++	A++	A++	A++			
0009		Rated	kW	4.2	4.2	5	5	6.1	7.1			
	Capacity	Min-Max	kW	0.8-4.5	0.8-4.5	1.4-5.4	1.4-5.4	1.4-7.5	2.0-8.7			
	Total Input	Rated	kW	1.340	1,340	1.660	1.660	1.790	2.130			
	Design load	riated	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)			
	Design load	at reference design temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)			
	Declared	at bivalent temperature	kW		3.8 (-10°C)	4.2 (-10°C) 4.2 (-10°C)	4.2 (-10°C) 4.2 (-10°C)	· /	6.7 (-10°C)			
	Capacity		_	3.8 (-10°C) 3.4 (-15°C)	` '	` '	` '	4.6 (-10°C)	1 /			
	Darley on have	at operation limit temperature	kW kW		2.2 (-20°C)	3.4 (-15°C)	2.3 (-20°C)	3.7 (-15°C)	5.4 (-15°C)			
Heating	Back up heating			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)(15)	SCOP (4)			4.4	4.3	4.4	4.3	4.3	4.2			
		Energy efficiency class		A+	A+	A+	A+	A+	A+			
	Capacity	Rated	kW	5.4	5.4	5.8	5.8	6.8	8.1			
	, ,	Min-Max	kW	1.3-6.0	1.3-6.0	1.4-7.3	1.4-7.3	2.0-9.3	2.2-9.9			
	Total Input	Rated	kW	1.580	1.58	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			
İ	Input	Rated	kW	0.027	0.027	0.035	0.035	0.062	0.058			
	Operating Current(Max)		Α	0.3	0.3	0.3	0.3	0.5	0.5			
	Dimensions	H*W*D	mm	299-798-195	299-798-195	299-798-195	299-798-195	325-1100-238	325-1100-238			
Indoor	Weight		kg	10	10	10	10	16	16			
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			
	Mid-Hi-SHi <sup>(13)</sup> (Dry/Wet))	Heating	m³/min	4.7 - 5.8 - 7.2 - 9.1 - 11.4	4.7 - 5.8 - 7.2 - 9.1 - 11.4	5.1 - 6.4 - 8.0 - 9.8 - 12.0	5.1 - 6.4 - 8.0 - 9.8 - 12.0	9.8-11.3-13.4-15.6-18.3	10.2-11.5-13.3-15.4-17.8			
	Sound Level (SPL)	Cooling	dB(A)	26 <sup>(*6)</sup> - 31 - 34 - 38 - 42	26 <sup>(*6)</sup> - 31 - 34 - 38 - 42	28 <sup>(7)</sup> - 33 - 36 - 40 - 45	28 <sup>(7)</sup> - 33 - 36 - 40 - 45	29 - 37 -41 - 45 - 49	30 - 37 - 41 - 45 - 49			
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	26 <sup>(16)</sup> - 31 - 36 - 42 - 47	26 <sup>(*6)</sup> - 31 - 36 - 42 - 47	28 <sup>(7)</sup> - 33 - 38 - 43 - 49	28 <sup>(17)</sup> - 33 - 38 - 43 - 49	29 - 37 - 41 - 45 - 49	30 - 37 - 41 - 45 - 49			
	Sound Level (PWL)	Cooling	dB(A)	57	57	58	58	65	65			
	Dimensions	H*W*D	mm	550-800-285	550-800-285	880-840-330	880-840-330	880-840-330	880-840-330			
	Weight		kg	35	35	55	55	50	53			
	4: 1/ 1	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		Cooling	dB(A)	50	50	52	52	55	55			
Unit	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		Α .	9.2	9.2	12	12	14	16.1			
	Breaker Size	,	A	10	10	16	16	20	20			
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7	6.35/15.88	9.52/15.88			
xt.	Max.Length	Out-In	m	20	20	30	30	30	30			
Piping	Max.Height	Out-In	m	12	12	15	15	15	15			
Guaranta	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			
··ange (O		r reaurity	L ∪	-10 ~ +24	-20 ~ +24	-10 ~ +24	-20 ~ +24	-10 ~ +24	-10 ~ +24			

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# MSZ-D SERIES

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

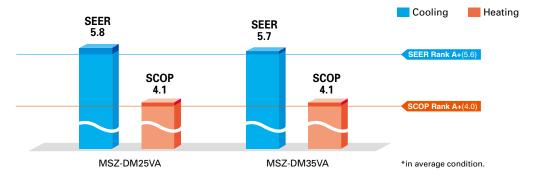
# Advanced Inverter Control – Efficient Operation All the Time





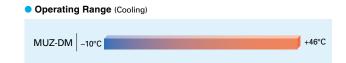


Mitsubishi Electric's cutting-edge inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises an Energy Rank "A+".



#### Wider Cooling Operating Range

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



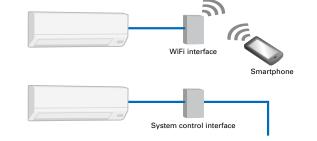
#### Wi-Fi and System Control

#### Wi-Fi Interface

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

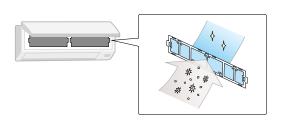
#### **System Control Interface**

- •Remote on/off operation is possible by input to the connector.
- Depending on the interface used, connecting a wired remotecontrol such as the PAR-32MASS is possible.
- •Centralized control is possible when connected to M-NET.



#### Silver-ionized Air Purifying Filter

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



#### **Compact Units**

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























MSZ-DM25/35VA

#### **Outdoor Unit**



MUZ-DM25/35VA







































Гуре	_			Inverter	Heat Pump					
ndoor Ur	nit			MSZ-DM25VA	MSZ-DM35VA					
Outdoor I	Jnit			MUZ-DM25VA	MUZ-DM35VA					
Refrigera	nt				10A <sup>(*1)</sup>					
Power	Source			Indoor Po	ower supply					
Supply	Outdoor (V/Ph	ase / Hz )		230V/Single/50Hz						
	Design load		kW	2.5	3.1					
	Annual electricity	consumption (*2)	kWh/a	149	190					
	SEER (*4)			5.8	5.7					
Cooling		Energy efficiency class		A <sup>+</sup>	A <sup>+</sup>					
	0	Rated	kW	2.5	3.15					
	Capacity	Min-Max	kW	1.3 - 3.0	1.4 - 3.5					
	Total Input	Rated	kW	0.710	1.020					
	Design load		kW	1.9 (-10°C)	2.4 (-10°C)					
		at reference design temperature	kW	1.9 (-10°C)	2.4 (-10°C)					
	Declared Capacity	at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)					
	Capacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)					
leating	Back up heating	capacity	kW	0.0 (-10°C)	0.0 (-10°C)					
Average	Annual electricity	consumption (*2)	kWh/a	647	809					
eason)(*5)	SCOP (*4)			4.1	4.1					
ŕ	Energy efficiency class			A <sup>+</sup>	A <sup>+</sup>					
		Rated	kW	3.15	3.6					
	Capacity	Min-Max	kW	0.9 - 3.5	1.1 - 4.1					
	Total Input	Rated	kW	0.850	0.975					
Operatin	g Current (Max)		А	5.8	6.5					
•	Input	Rated	kW	0.020	0.021					
	Operating Curre	nt(Max)	Α	0.3	0.3					
	Dimensions	H*W*D	mm	290-799-232	290-799-232					
	Weight		kg	9	9					
ndoor Jnit	Air Volume (SLo-Lo-	Cooling	m³/min	3.8 - 5.5 - 7.3 - 9.5	3.8 - 5.7 - 7.8 - 10.9					
Init	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					
	Sound Level (SPL)	Cooling	dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 45					
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	23 - 30 - 37 - 43	23 - 30 - 37 - 44					
	Sound Level (PWL)	Cooling	dB(A)	57	60					
	Dimensions	H*W*D	mm	538-699-249	538-699-249					
	Weight		kg	24	25					
		Cooling	m³/min	31.5	31.5					
	Air Volume	Heating	m³/min	31.5	31.5					
Outdoor		Cooling	dB(A)	50	51					
Jnit	Sound Level (SPL)	Heating	dB(A)	50	51					
	Sound Level (PWL)		dB(A)	63	64					
	Operating Curre		Α	5.5	6.2					
	Breaker Size		Α	10	10					
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52					
Ext.	Max.Length	Out-In	m	20	20					
Piping	Max.Height	Out-In	m	12	12					
Guarante	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46					

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

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

(\*3) SHI: Super High

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

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



#### Stylish Design with Flat Panel Front

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



# Advanced Inverter Control – Efficient Operation All the Time







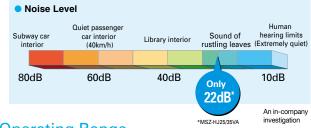




Mitsubishi Electric's cutting-edge inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises an Energy Rank "A" rating for 25/35 classes and "A\*" for 50/60/71 classes.

#### Silent Operation

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



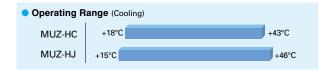
#### Long Piping Length

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

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

#### **Operating Range**

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



#### **Compact Units**

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

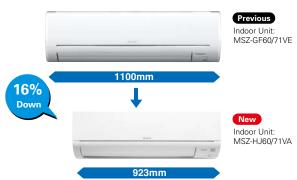
installation in smaller, tighter spaces possible.

Indoor Unit: MSZ-HJ25/35/50VA Outdoor Unit: MUZ-HJ25/35VA





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



















Remote Controller







## **Outdoor Unit**

















































MUZ-HJ60/71VA

.,,,,,							·	
Indoor Ur	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 <sup>(*1)</sup>		
Power	Source					Indoor Power supply		
Supply	Outdoor (V / Ph	ase / Hz )				230V/Single/50Hz		
	Design load		kW	2.5	3.1	5.0	6.1	7.1
	Annual electricity	consumption (*2)	kWh/a	171	212	292	354	441
	SEER (*4)	·		5.1	5.1	6.0	6.0	5.6
Cooling		Energy efficiency class	,	A	A	A+	A+	A+
·		Rated	kW	2.5	3.15	5.0	6.1	7.1
	Capacity	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)
	Dooig. Toda	at reference design temperature	_	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
	Declared	at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
	Capacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
	Back up heating		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
Heating (Average	Annual electricity		kWh/a	698	885	1267	1544	1854
Season)(*5)	SCOP (*4)	Consumption	KVVII/a	3.8	3.8	4.2	4.1	4.0
	3001	Energy efficiency class	. +	A A	A A	4.2 A+	A+	4.0 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
	Takal lawas		_			1.480	1.970	
•	Total Input	Rated	kW	0.870	0.995			2.440
Operatin	g Current (Max)	Rated	A	5.8 0.020	6.5 0.021	9.8	12.5 0.055	12.5 0.055
	Input		kW			0.037	0.055	
	Operating Current(Max)		A	0.3	0.3	***	***	0.5
	Dimensions	H*W*D	mm	290-799-232	290-799-232	290-799-232	305-923-250	305-923-250
Indoor	Weight	T	kg	9	9	9	13	13
Unit	Air Volume (SLo-Lo-	Cooling	m³/min	3.8 - 5.5 - 7.3 - 9.5	3.8 - 5.7 - 7.8 - 10.9	6.3 - 9.1 - 11.1 - 12.9	9.3 - 12.2 - 15.0 - 19.9	10.0 - 12.2 - 15.0 - 19.9
	Mid-Hi-SHi <sup>(+3)</sup> (Dry/Wet))		m³/min	3.5 - 5.5 - 7.5 - 10.0	3.5 - 5.5 - 7.5 - 10.3	6.1 - 8.3 - 11.1 - 14.3	9.4 - 12.5 - 16.0 - 19.9	10.3 - 12.7 - 16.4 - 19.9
	Sound Level (SPL)	Cooling	dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 45	28 - 36 - 40 - 45	31 - 38 - 44 - 50	33 - 38 - 44 - 50
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	23 - 30 - 37 - 43	23 - 30 - 37 - 44	27 - 34 - 41 - 47	31 - 38 - 44 - 49	33 - 38 - 44 - 49
	Sound Level (PWL)	Cooling	dB(A)	57	60	60	65	65
	Dimensions	H*W*D	mm	538-699-249	538-699-249	550-800-285	880-840-330	880-840-330
	Weight	T - "	kg	24	25	36	55	55
	Air Volume	Cooling	m³/min	31.5	31.5	36.3	47.9	49.3
Outdoor		Heating	m³/min	31.5	31.5	34.8	47.9	47.9
Unit	Sound Level (SPL)	Cooling	dB(A)	50	50	50	55	55
	. ,	Heating	dB(A)	50	50	51	55	55
	Sound Level (PWL)		dB(A)	63	64	64	65	66
	Operating Curre	ent (Max)	A	5.5	6.2	9.4	12	12
	Breaker Size	1	A	10	10	12	16	16
Ext.	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/12.7	6.35/15.88	9.52/15.88
Piping	Max.Length	Out-In	m	20	20	20	30	30
	Max.Height	Out-In	m	12	12	12	15	15
	eed Operating	Cooling	°C	+15 ~ +46	+15 ~ +46	+15 ~ +46	+15 ~ +46	+15 ~ +46
Range (C	Outdoor)	Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24

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

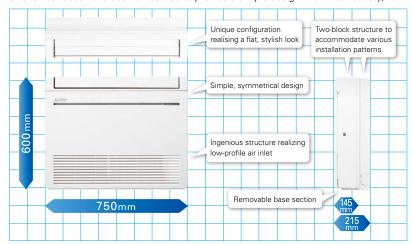
# MFZ SERIES

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.

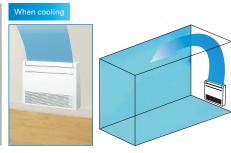




#### Multi-flow Vane

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



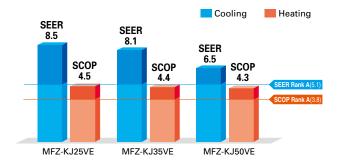


\*The downward airflow is also possible as well as heating.

#### **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.

#### MFZ-KJ SERIES



















#### **Outdoor Unit**



MUFZ-KJ25/35VE





#### Remote Controller































































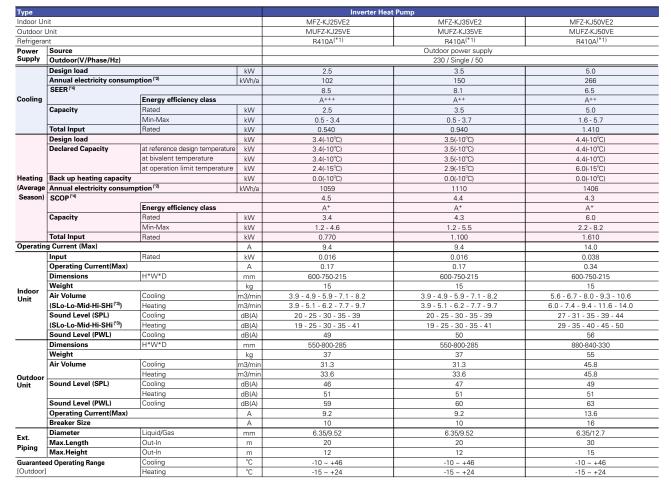












<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of 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

<sup>(\*4)</sup> 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**

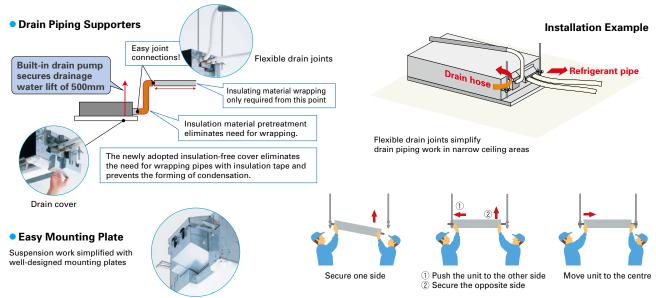
Outlet vanes can be moved left and right, and up and down using the remote controller. This improved airflow control feature solves the problem of drafts.

Left and Right



#### **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-443W AUTO Silver-ion VANE Silver-io

уре					Inverter Heat Pump	
door Unit		<u> </u>		MLZ-KA25VA	MLZ-KA35VA	MLZ-KA50VA
utdoor Ur	nit				for MXZ connection	
frigerant					R410A <sup>(*1)</sup>	
ower S	ource				Outdoor Power supply	
	outdoor (V / Ph	ase / Hz )			230V / Single / 50Hz	
0	esign load		kW	-	-	-
Α	nnual electricity	consumption (*2)	kWh/a	-	-	-
	EER (*4)			-	-	-
ooling		Energy efficiency class		-	-	-
1		Rated	kW	-	-	-
10	Capacity	Min-Max	kW	=	-	-
Т	otal Input	Rated	kW	-	-	-
С	esign load		kW	-	-	-
		at reference design temperature	kW	-	-	-
	eclared	at bivalent temperature	kW	-	-	-
C	Capacity	at operation limit temperature	kW	-	-	-
eating E	Back up heating		kW	-	-	-
	nnual electricity		kWh/a	-	-	
	COP (*4)	puo		_	-	
		Energy efficiency class		_	-	
H		Rated	kW	-	-	
C	apacity	Min-Max	kW	-	_	
-	otal Input	Rated	kW	_	_	
	Current (Max)	ridica	A	0.4	0.4	0.4
	nput	Rated	kW	0.040	0.040	0.040
_	• • •		A	-	-	-
	Operating Current(Max)  Dimensions H*W*D		mm	175-1102-360	175-1102-360	175-1102-360
		H W D		15	175-1102-360	175-1102-360
door -	Weight		kg m³/min		-	
	ir Volume (SLo-Lo- lid-Hi-SHi <sup>(*3)</sup> (Dry/Wet))	Cooling Heating	m³/min	7.2-8.0-8.8 7.0-8.2-9.2	7.3-8.4-9.4 7.7-8.8-9.9	8.3-9.8-11.4
<u> </u>		ŭ				8.8-10.3-11.8
	ound Level (SPL) SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Cooling	dB(A)	29-32-35	31-34-37	34-38-43
		Heating	dB(A)	28-32-36	31-35-38	34-39-43
	ound Level (PWL)	Cooling	dB(A)	52	54	60
	Dimensions	H*W*D	mm	34-1200-414	34-1200-414	34-1200-414
	Veight	LINAMO	kg	3.5	3.5	3.5
_ <u>_</u>	imensions	H*W*D	mm	-	-	
V	Veight	0 "	kg	-	-	÷ .
Α	ir Volume	Cooling	m³/min	-	-	<u> </u>
ıtdoor		Heating	m³/min	-	-	Α
	ound Level (SPL)	Cooling	dB(A)	-	-	-
L		Heating	dB(A)	=	-	=
	ound Level (PWL)	Cooling	dB(A)	=	-	<u> </u>
	perating Curre	nt (Max)	A	-	-	<u>-</u>
	reaker Size		A	-	-	-
-	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/12.7
	fax.Length	Out-In	m	-	-	-
P19	/lax.Height	Out-In	m	-	-	-
uarantee	d Operating	Cooling	*C	-	-	-
lange (Out	tdoor)	Heating	°C	_	_	=

<sup>(\*1)</sup> Refigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 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	Unit			MUZ-FH25VE	MUZ-FH25VEHZ	MUZ-FH35VE	MUZ-FH35VEHZ	MUZ-FH50VE	MUZ-FH50VEHZ
Refrigera	nt					R41	0A (*1)		•
	Design load		kW	2.5	2.5	3.5	3.5	5.0	5.0
Cooling	Annual electricity consumption (*2) kWh/a			96	96	138	138	244	244
0009	SEER			9.1	9.1	8.9	8.9	7.2	7.2
		Energy efficiency class		A+++	A+++	A+++	A+++	A++	A++
	Design load kW			1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)
		at reference design temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)
	Declared 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)
(warmer Season)	Back up heating	g capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
ocasony	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-EF25VE2		MSZ-EF35VE2		MSZ-EF42VE2	MSZ-EF50VE2
Outdoor I	Jnit			MUZ-EF25VE	MUZ-EF25VEH	MUZ-EF35VE	MUZ-EF35VEH	MUZ-EF42VE	MUZ-EF50VE
Refrigera	nt					R41	0A (*1)		
	Design load kW				2.5	3.5	3.5	4.2	5.0
	Annual electricity 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	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)					
Coasonj	Annual electricity	Annual electricity 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-S	F25VE2	MSZ-S	F35VE2	MSZ-S	F42VE2	MSZ-SF50VE2		
Outdoor	Unit			MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH	MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH	
Refrigera	nt			R410A <sup>(1)</sup>								
	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++	A++	A++	A++	A++	A++	A++	A++	
	Design load		kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)	
		at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)	
	Declared 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	g capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	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+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++		

Туре				Inverter H	eat Pump
Indoor Ur	nit			MSZ-GF60VE	MSZ-GF71VE
Outdoor I	Jnit			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	Capacity	at operation limit temperature	kW	3.7 (-15°C)	5.4 (-15°C)
Season)	Back up heatin	g capacity	kW	0.0 (2°C)	0.0 (2°C)
Season)	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	MSZ-DM25VA	MSZ-DM35VA
Outdoor l	Jnit			MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA	MUZ-DM25VA	MUZ-DM35VA
Refrigerar	nt					R410A (*1)		
	Design load		kW	2.5	3.1	5.0	2.5	3.1
Cooling	Annual electricity consumption (*2) kWh/a			171	212	292	149	190
Cooming	SEER			5.1	5.1	6.0	5.8	5.7
	Energy efficiency cla			Α	Α	A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>
	Design load kW			1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	1.1 (2°C)	1.3 (2°C)
		at reference design temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	1.1 (2°C)	1.3 (2°C)
	Declared Capacity	at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	1.1 (2°C)	1.3 (2°C)
Heating	Capacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	1.9 (-10°C)	2.4 (-10°C)
(Warmer Season)	Back up heating	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)
Coasony	Annual electricity	Annual electricity consumption (*2) kWh/a			426	539	325	386
	SCOP			4.3	4.3	5.5	4.7	4.7
		Energy efficiency class		A <sup>+</sup>	A <sup>+</sup>	A+++	A++	A++

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

## **Specification on Warmer Condition**

Туре						Inverter H	eat Pump		
Model		Indoor		MFZ-K	J25VE	MFZ-k	J35VE	MFZ-Ł	KJ50VE
Model		Outdoor	Outdoor		MUFZ-KJ25VEHZ	MUFZ-KJ35VE	MUFZ-KJ35VEHZ	MUFZ-KJ50VE	MUFZ-KJ50VEHZ
	Sound power levels Inside dl			49	49	50	50	56	56
on coolin	g mode	Outside	dB	59	59	60	60	63	63
Refrigera	nt					R410A G	NP 1975 <sup>(*1)</sup>		
	SEER			8.5	8.5	8.1	8.1	6.5	6.5
Cooling	Energy efficiency 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	cy class		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	Back up heating capacity kW			0.0 (-10°C)/0.0 (2°C)				

Туре						Inverter H	leat Pump		
Mandal		Indoor		MSZ-F	H25VE	MSZ-F	H35VE	MSZ-FH50VE	
Model		Outdoor		MUZ-FH25VE	MUZ-FH25VEHZ	MUZ-FH35VE	MUZ-FH35VEHZ	MUZ-FH50VE	MUZ-FH50VEHZ
Sound po	Sound power levels Inside dB			58	58	58	58	60	60
on coolin	on cooling mode Outside		dB	60	60	61	61	64	64
Refrigera	nt					R410A G	WP 1975 <sup>(*1)</sup>		
	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		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 capacity			0.0 (-10°C)/0.0 (2°C)					

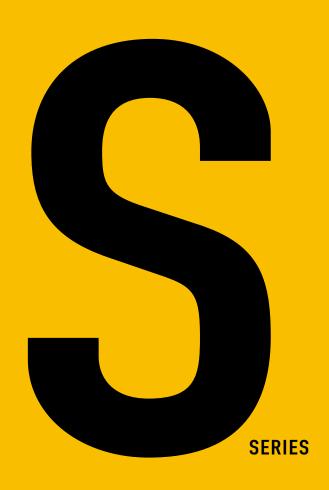
Туре						Inverter H	eat Pump		
Model		Indoor		MSZ-E	F25VE	MSZ-E	F35VE	MSZ-EF42VE	MSZ-EF50VE
Model		Outdoor		MUZ-EF25VE	MUZ-EF25VEH	MUZ-EF35VE	MUZ-EF35VEH	MUZ-EF42VE	MUZ-EF50VE
	Sound power levels Inside dB			60	60	60	60	60	60
on cooling	on cooling mode		dB	58	58	61	61	62	65
Refrigera	nt					R410A G	NP 1975 (*1)		
	SEER				8.5	8.5	8.5	7.7	7.2
Cooling	Energy efficiency class			A+++	A+++	A+++	A+++	A++	A++
	Annual electricity consumption (*2)		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 efficience			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 capacity kW				0.0 (-10°C)/0.0 (2°C)				

Туре							Inverter H	leat Pump			
Model		Indoor		MSZ-S	F25VE2	MSZ-S	F35VE2	MSZ-S	F42VE2	MSZ-S	F50VE2
wodei		Outdoor		MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH	MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH
Sound po	Sound power levels Inside dB			57	57	57	57	57	57	58	58
on coolin	on cooling mode		dB	58	58	62	62	63	63	65	65
Refrigera	nt						R410A G	WP 1975 (*1)			
	SEER			7.6	7.6	7.2	7.2	7.5	7.5	7.2	7.2
Cooling	Energy efficiency class			A++							
	Annual electricity consumption (*2) k\		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		·		4.3/5.4	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+++							
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)
, [	Capacity	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)							

Туре							In	verter Heat Pum	ıp			
Model		Indoor		MSZ-GF60VE	MSZ-GF71VE	MSZ-HJ25VA	MSZ-HJ35VA	MSZ-HJ50VA	MSZ-HJ60VA	MSZ-HJ71VA	MSZ-DM25VA	MSZ-DM35VA
wodei		Outdoor		MUZ-GF60VE	MUZ-GF71VE	MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA	MUZ-HJ60VA	MUZ-HJ71VA	MUZ-DM25VA	MUZ-DM35VA
Sound po	ound power levels Inside dB			65	65	57	60	60	65	65	57	60
on coolin	n cooling mode Outside dB		dB	65	65	63	64	64	65	66	63	64
Refrigera	Refrigerant				WP 1975 (*1)		F	R410A GWP 1975	5 (*1)		R410A G	WP 1975 (*1)
	SEER			6.8	6.8	5.1	5.1	6.0	6.0	5.6	5.8	5.7
Cooling	Cooling Energy efficiency class			A++	A++	A	A	A <sup>+</sup>				
Cooming	Annual electricity consumption (*2) kWh/a		kWh/a	311	364	171	212	292	354	441	149	190
	Design load kV		kW	6.1	7.1	2.5	3.1	5.0	6.1	7.1	2.5	3.1
	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	4.1/4.7	4.1/4.7
	Energy efficiend	cy class		A+/A+++	A+/A+++	A/A <sup>+</sup>	A/A <sup>+</sup>	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	647/325	809/386
(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)	1.9 (-10°C)/1.1 (2°C)	2.4 (-10°C)/1.3 (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)	1.9 (-10°C)/1.1 (2°C)	2.4 (-10°C)/1.3 (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)	1.9 (-10°C)/1.1 (2°C)	2.4 (-10°C)/1.3 (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)	1.9 (-10°C)/1.9 (-10°C)	2.4 (-10°C)/2.4 (-10°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)	0.0 (-10°C)/0.0 (2°C)	

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

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









### **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-KF25VA2

SLZ-KF35VA2

SLZ-KF50VA2

SLZ-KF60VA2

#### Grilles

SLP-2FA (only panel)

SLP-2FAL (with signal receiver)

SLP-2FAE (with 3D i-see Sensor)

SLP-2FALE (with 3D i-see Sensor and signal receiver)

SLP-2FALM (with signal receiver and wireless

remote controller)

SLP-2FALME (with singal receiver, 3D i-see Sensor and wireless remote controller)



#### **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-KA25/35VA5



SUZ-KA50/60/71VA5

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



SLZ-KF25/35/50/60VA2

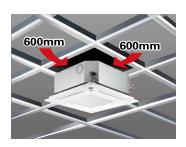
Compact, lightweight ceiling cassette units with 4-way air outlets provide maximum comfort by evenly distributing airflow throughout the entire room.



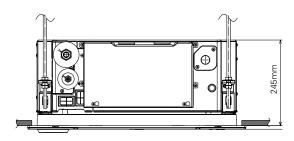
#### New design

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

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



#### The height above ceiling of 245mm



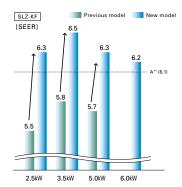
The height above ceiling of 245mm enables fitting into narrow ceiling space. Installation is simple, even when the ceiling spaces are narrow to make the ceilings higher. Of course, in addition to our products, replacing competitors' product is simplified too.

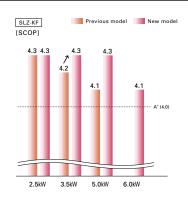
#### Lineup

	25	35	50	60
SLZ-KA	•	•	•	
		↓		
SLZ-KF	•	•	•	•

6.0kW has been introduced to expand the lineup. The diverse selection enables the best solution for both customer and location.

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

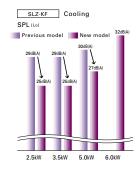




The energy-saving performance increased approximately 10%, achieving a SEER rating of A<sup>++</sup>.

#### Quietness





The sound level has been reduced by 2-4dB thanks to the introduction of a 3D turbo fan, for quieter and more comfortable air conditioning

#### **Horizontal Airflow**

[Airflow distribution]\*
S1Z-KF60VAZ-TH
Flow angle, cooling at 20°C (ceiling height 2.7m)

2.7

2.7

2.5

E

E

D

T

1

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

#### Easy installation

\*Vane angle: Horizontal

#### Temporary hanging hook

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





#### No need to remove screws

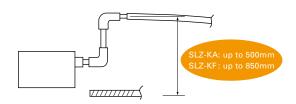
Installation is possible without removing the screws for control box simply loosen them. This eliminates the risk of losing screws.







#### **Drain lift**



As the result of using a larger drain pan, the maximum drain lifting height has been increased from 500mm to 850mm, greatly enhancing construction flexibility compared to the existing model.

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

#### Detects number of people

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

#### Detects people's position

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

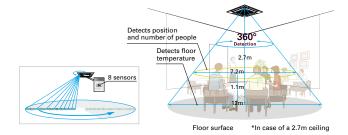


Detects number of people



Detects people's position





#### Detects number of people

#### Room occupancy energy-saving mode

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

#### No occupancy energy-saving mode

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

#### No occupancy Auto-OFF mode

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

# No occupancy energy save mode No occupancy energy save mode





\*PAR-32MAA is required for each setting

1C°

2C°

power

savings

power

savings

#### Detects people's position

#### Direct/Indirect settings\*

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



\*PAR-32MAA is required for each setting

#### Seasonal airflow\*

#### <When cooling>

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

#### <When heating>

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



\*PAR-32MAA is required for each setting.

#### **SLZ-KF** SERIES

















GOOD DESIGN

SLZ-KF25/35/50/60VA2

#### Grilles

SLP-2FA (only panel) SLP-2FAL (with signal receiver) SLP-2FAE (with 3D i-see Sensor) SLP-2FALE (with signal receiver and 3D i-see Sensor) SLP-2FALM (with signal receiver and wireless remote controller) SLP-2FALME (with signal receiver, 3D i-see Sensor and wireless remote controller)

#### **Outdoor Unit**



SUZ-KA25/35VA5



SUZ-KA50/60VA5

#### Remote Controller



Enclosed in SLP-2FALM/SLP-2FALME

























































	Inverter F	leat Pump	

Indoor Ur	nit			SLZ-KF25VA2	SLZ-KF35VA2	SLZ-KF50VA2	SLZ-KF60VA2
Outdoor I	Unit			SUZ-KA25VA5	SUZ-KA35VA5	SUZ-KA50VA5	SUZ-KA60VA5
Refrigera	nt				R41	0A*1	
Power	Source				Outdoor po	wer supply	
Supply	Outdoor (V/Phase/F	łz)			230 / Si	ngle / 50	
Cooling	Capacity	Rated	kW	2.6	3.5	4.6	5.6
		Min - Max	kW	1.5 - 3.2	1.4 - 3.9	2.3 - 5.2	2.3 - 6.5
	Total Input	Rated	kW	0.684	0.972	1.394	1.767
	Design Load		kW	2.6	3.5	4.6	5.6
	Annual Electricity Co	onsumption*2	kWh/a	144	188	256	316
	SEER			6.3	6.5	6.3	6.2
		Energy Efficiency Class		A++	A++	A++	A++
Heating	Capacity	Rated	kW	3.2	4.0	5.0	6.4
Average		Min - Max	kW	1.3 - 4.2	1.7 - 5.0	1.7 - 6.0	2.5 - 7.4
Season)	Total Input	Rated	kW	0.886	1.108	1.558	2.278
	Design Load	•	kW	2.2	2.6	3.6	4.6
	Declared Capacity	at reference design temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.0 (-10°C)
		at bivalent temperature	kW	2.0 (-7°C)	2.3 (-7°C)	3.2 (-7°C)	4.0 (-7°C)
		at operation limit temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.0 (-10°C)
	Back Up Heating Ca	pacity	kW	0.2	0.3	0.4	0.4
	Annual Electricity Co	onsumption*2	kWh/a	716	845	1172	1572
	SCOP	-		4.3	4.3	4.3	4.1
		Energy Efficiency Class		A+	A+	A+	A+
Operatin	g Current (max)	•	Α	7.2	8.4	12.3	14.4
ndoor	Input Rated			0.02	0.02	0.03	0.04
Jnit	Operating Current (	Operating Current (max)		0.20	0.24	0.32	0.43
	Dimensions <panel></panel>	H × W × D	mm	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>
	Weight <panel></panel>		kg	15 <3>	15 <3>	15 <3>	15 <3>
	Air Volume [Lo-Mid-	Hi]	m³/min	6.5 - 7.5 - 8.5	6.5 - 8.0 - 9.5	7.0 - 9.0 - 11.5	7.5 - 11.5 - 13.0
	Sound Level (SPL) [I	_o-Mid-Hi]	dB(A)	25 - 28 - 31	25 - 30 - 34	27 - 34 - 39	32 - 40 - 43
	Sound Level (PWL)		dB(A)	48	51	56	60
Outdoor	Dimensions	$H \times W \times D$	mm	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330	880 - 840 - 330
Unit	Weight	•	kg	30	35	54	50
	Air Volume	Cooling	m³/min	32.6	36.3	44.6	40.9
		Heating	m³/min	34.7	34.8	44.6	49.2
	Sound Level (SPL)	Cooling	dB(A)	47	49	52	55
		Heating	dB(A)	48	50	52	55
	Sound Level (PWL)	Cooling	dB(A)	58	62	65	65
	Operating Current (	max)	А	7.0	8.2	12.0	14.0
	Breaker Size		А	10	10	20	20
Ext.	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88
Piping	Max. Length	Out-In	m	20	20	30	30
	Max. Height	Out-In	m	12	12	30	30
Guarante	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46
[Outdoor]	1	Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24
	r	. · ·				1	

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with 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.

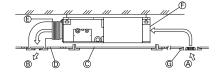




This concealed ceiling-mounted indoor unit series is compact, and fits easily into rooms with lowered ceilings. Highly reliable energy-saving performance makes it a best match choice for concealed unit installations.

#### **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.



- A Air inlet B Air outlet
- © Access door

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

#### **Dimension Comparison**



SEZ-KA35VA



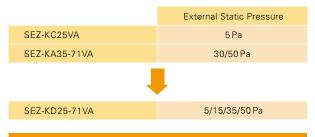


SEZ-KD35VAQ



#### 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.



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-KA25/35VA5



SUZ-KA50/60/71VA5

#### Remote Controller



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



\*optional (for SEZ-KD VAQ)



\*optional (for SEZ-KD VAQ)





























						Inverter Heat Pump		
ndoor Un	nit			SEZ-KD25VAQ/VAL	SEZ-KD35VAQ/VAL	SEZ-KD50VAQ/VAL	SEZ-KD60VAQ/VAL	SEZ-KD71VAQ/VAL
Outdoor U	Unit			SUZ-KA25VA5	SUZ-KA35VA5	SUZ-KA50VA5	SUZ-KA60VA5	SUZ-KA71VA5
Refrigerar	nt					R410A*1		
Power	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		kW	2.5	3.5	5.1	5.6	7.1
	Annual Electricity Co	onsumption*2	kWh/a	168	219	313	376	477
	SEER*3			5.2	5.6	5.7	5.2	5.2
		Energy Efficiency Class		A	A <sup>+</sup>	A <sup>+</sup>	A	A
leating	Capacity	Rated	kW	2.9	4.2	6.4	7.4	8.1
Average		Min - Max	kW	1.3 - 4.5	1.7 - 5.0	1.7 - 7.2	2.5 - 8.0	2.6 - 10.4
Season)	Total Input	Rated	kW	0.803	1.130	1.800	2.200	2.268
	Design Load		kW	2.2	2.8	4.6	5.5	6.0
	Declared Capacity	at reference design temperature	kW	1.9 (-10°C)	2.5 (-10°C)	4.1 (-10°C)	4.5 (-10°C)	5.3 (-10°C)
	' '	at bivalent temperature	kW	1.9 (-7°C)	2.5 (-7°C)	4.1 (-7°C)	4.8 (-7°C)	5.3 (-7°C)
		at operation limit temperature	kW	1.9 (-10°C)	2.5 (-10°C)	4.1 (-10°C)	4.5 (-10°C)	5.3 (-10°C)
	Back Up Heating Ca		kW	0.3	0.3	0.5	1.0	0.7
	Annual Electricity Co	'	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)	, , , , , , , , , , , , , , , , , , , ,	Α	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		Α	0.4	0.5	0.7	0.7	0.9
	Dimensions <panel></panel>		mm	200 - 790 - 700	200 - 990 - 700	200 - 990 - 700	200 - 1190 - 700	200 - 1190 - 700
	Weight <panel></panel>	1	kg	18	21	23	27	27
	Air Volume [Lo-Mid-	Hil	m³/min	6-7-9	7 - 9 - 11	10 - 13 - 15	12 - 15 - 18	12 - 16 - 20
	External Static Press	·	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		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
	Dimensions	$H \times W \times D$	mm	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330	880 - 840 - 330	880 - 840 - 330
utdoor								1 000 0.0 000
		IIIAIIAB			35		50	53
	Weight		kg	30	35 36.3	54	50 40.9	53 50.1
		Cooling	kg m³/min	30 32.6	36.3	54 44.6	40.9	50.1
	Weight Air Volume	Cooling Heating	kg m³/min m³/min	30 32.6 34.7	36.3 34.8	54 44.6 44.6	40.9 49.2	50.1 48.2
	Weight	Cooling Heating Cooling	kg m³/min m³/min dB(A)	30 32.6 34.7 47	36.3 34.8 49	54 44.6 44.6 52	40.9 49.2 55	50.1 48.2 55
	Weight Air Volume Sound Level (SPL)	Cooling Heating Cooling Heating	kg m³/min m³/min dB(A) dB(A)	30 32.6 34.7 47 48	36.3 34.8 49 50	54 44.6 44.6 52 52	40.9 49.2 55 55	50.1 48.2 55 55
	Weight Air Volume  Sound Level (SPL)  Sound Level (PWL)	Cooling Heating Cooling Heating Cooling	kg m³/min m³/min dB(A) dB(A) dB(A)	30 32.6 34.7 47 48 58	36.3 34.8 49 50 62	54 44.6 44.6 52 52 52 65	40.9 49.2 55 55 65	50.1 48.2 55 55 69
	Weight Air Volume  Sound Level (SPL)  Sound Level (PWL)  Operating Current (r	Cooling Heating Cooling Heating Cooling	kg m³/min m³/min dB(A) dB(A) dB(A)	30 32.6 34.7 47 48 58 7.0	36.3 34.8 49 50 62 8.2	54 44.6 44.6 52 52 65 12.0	40.9 49.2 55 55 65 14.0	50.1 48.2 55 55 69 16.1
Jnit	Weight Air Volume Sound Level (SPL) Sound Level (PWL) Operating Current (r Breaker Size	Cooling Heating Cooling Heating Cooling Cooling Max)	kg m³/min m³/min dB(A) dB(A) dB(A) A	30 32.6 34.7 47 48 58 7.0	36.3 34.8 49 50 62 8.2	54 44.6 44.6 52 52 65 12.0	40.9 49.2 55 55 65 14.0 20	50.1 48.2 55 55 69 16.1 20
Jnit	Weight Air Volume Sound Level (SPL) Sound Level (PWL) Operating Current (r Breaker Size Diameter	Cooling Heating Cooling Heating Cooling Tooling Tooling Taxl	kg m³/min m³/min dB(A) dB(A) dB(A) A A	30 32.6 34.7 47 48 58 7.0 10 6.35/9.52	36.3 34.8 49 50 62 8.2 10 6.35 / 9.52	54 44.6 44.6 52 52 65 12.0 20 6.35/12.7	40.9 49.2 55 55 65 14.0 20 6.35 / 15.88	50.1 48.2 55 55 69 16.1 20 9.52 / 15.88
Jnit	Weight Air Volume  Sound Level (SPL)  Sound Level (PWL) Operating Current (r Breaker Size Diameter Max. Length	Cooling Heating Cooling Heating Cooling max) Liquid / Gas Out-In	kg m³/min m³/min dB(A) dB(A) dB(A) A A mm m	30 32.6 34.7 47 48 58 7.0 10 6.35/9.52	36.3 34.8 49 50 62 8.2 10 6.35/9.52	54 44.6 44.6 52 52 65 12.0 20 6.35/12.7 30	40.9 49.2 55 55 65 14.0 20 6.35 / 15.88 30	50.1 48.2 55 55 69 16.1 20 9.52 / 15.88 30
Outdoor Unit	Weight Air Volume Sound Level (SPL) Sound Level (PWL) Operating Current (r Breaker Size Diameter	Cooling Heating Cooling Heating Cooling Tooling Tooling Taxl	kg m³/min m³/min dB(A) dB(A) dB(A) A A	30 32.6 34.7 47 48 58 7.0 10 6.35/9.52	36.3 34.8 49 50 62 8.2 10 6.35 / 9.52	54 44.6 44.6 52 52 65 12.0 20 6.35/12.7	40.9 49.2 55 55 65 14.0 20 6.35 / 15.88	50.1 48.2 55 55 69 16.1 20 9.52 / 15.88

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
\*3 SEER/SCOP are measured at ESP 35Pa.





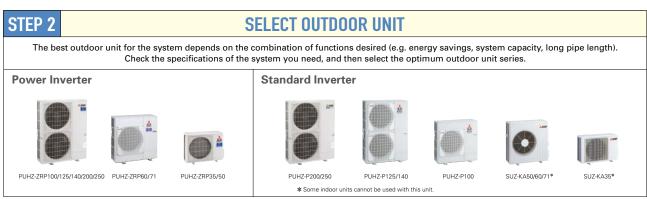




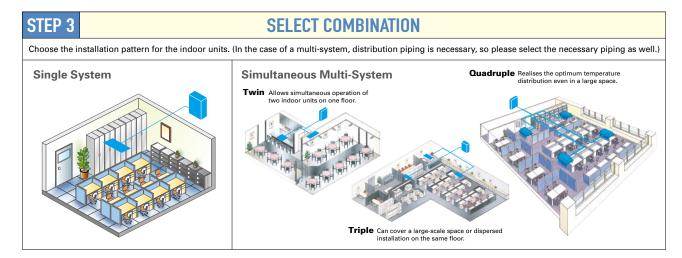
#### **SELECTION**

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

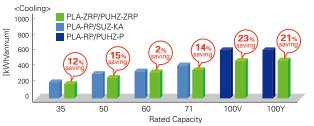
Our new Power Inverter Series is designed to achieve industry-leading seasonal energy-efficiency through use of new technologies and high-performance compressor. Installation is now even easier thanks to outdoor units with a side-flow configuration, a maximum piping length of 120m and pipe-replacement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

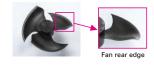
#### Fan opening of 550mm <100-250>

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>

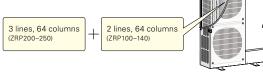
A newly designed fan has been adopted, increasing airflow capacity and reducing operation noise.



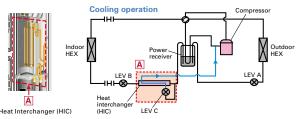
#### Highly efficient heat exchanger

#### High-density heat exchanger <100-250>

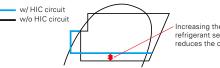
ZRP 100-250 use 7.94mm-diameter pipe. The high-density heat exchanger contributes to efficient heat exchange and reduces the amount of refrigerant used, which is better for the environment.



#### 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
3-phase	Max.	8.7	10.3	12.1
3-priase	Breaker size	16	16	
Power Supply		PUHZ-ZRP100VKA2	PUHZ-ZRP125VKA2	PUHZ-ZRP140VKA2
1-phase	Max.	27.2	27.3	29.1
i-piiase	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

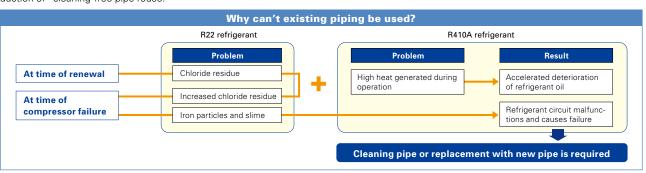
When the total control/power cable length exceeds 80m, separate power sources are required for the indoor and outdoor units. (An optional power-supply terminal kit is needed for indoor units with no power-supply terminal block.)
\*PUHZ-ZRP200/250 only

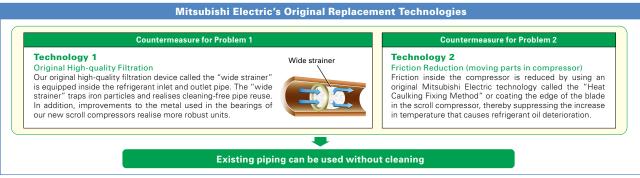
#### Cleaning-free Pipe Reuse Technology

#### 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

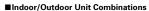
#### ■Key Technologies for Higher Energy Efficiency

#### New Heat Exchanger Design

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

#### Pre-grooved Piping

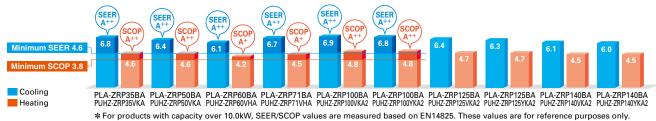
High-performance pre-grooved piping is utilised, increasing the heat exchange area.





#### "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<sup>++</sup> for cooling and A<sup>+</sup> or higher for heating.



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

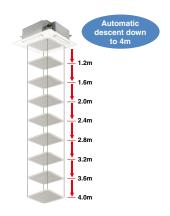
An automatic grille lowering function is available for easy filter maintenance. Special wired and wireless remote controllers can be used to lower the grille for maintenance.

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

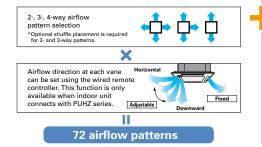


#### **Optimum Airflow**

#### 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

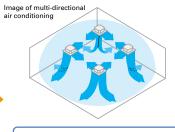


#### Wide Airflow

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.

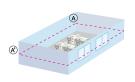
#### Wave Airflow – Thoroughly warming all corners of the room!

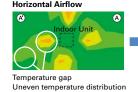
#### **Wave Airflow Operation**

"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





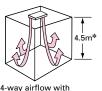
\* Wave Airflow is possible only when using the heating mode Wave Airflow 24°C

Temperature gap is minimized. Warm air is supplied throughout the room, minimizing uneven temperature distribution.

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.

#### 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.



high-ceiling setting





4-way airflow with low-ceiling setting

#### ■ Airflow Range

Model	3	35-71 class		100-140 class					
Airflow pattern	High-ceiling setting	Standard setting	Low-ceiling setting	High-ceiling setting	Standard setting	Low-ceiling setting			
4-Way	<b>3.5</b> m	2.7m	<b>2.5</b> m	<b>4.5</b> m	3.2m	<b>2.7</b> m			
3-Way	<b>3.5</b> m	3.0m	<b>2.7</b> m	<b>4.5</b> m	3.6m	<b>3.0</b> m			
2-Way	<b>3.5</b> m	3.3m	<b>3.0</b> m	<b>4.5</b> m	4.0m	<b>3.3</b> m			

#### Horizontal Airflow

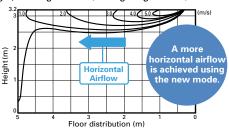
A "Horizontal Airflow" function has been added to reduce drafty-feeling distribution. Horizontal Airflow prevents cold drafts from striking the body directly, thereby keeping the body from becoming over-chilled.



#### [Airflow Distribution]

PLA-RP125BA

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



Airflow pattern	High-ceiling setting	Standard setting	Low-ceiling setting	High-ceiling setting	Standard setting	Low-ceiling setting
4-Way	<b>3.5</b> m	2.7m	<b>2.5</b> m	<b>4.5</b> m	3.2m	<b>2.7</b> m
3-Way	<b>3.5</b> m	3.0m	<b>2.7</b> m	<b>4.5</b> m	3.6m	<b>3.0</b> m
2-Way	<b>3.5</b> m	3.3m	<b>3.0</b> m	<b>4.5</b> m	4.0m	<b>3.3</b> m

#### 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?

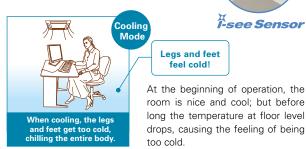
The "i-see Sensor" is the answer to your problems!

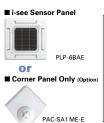


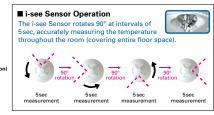
Even though the temperature on the remote controller is at a preset temperature, the temperature at floor level remains cold. As a result, there's no feeling of getting warmer.

# "Fsee 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.



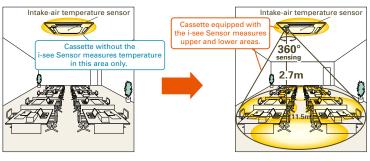




# A comfortable room environment cannot be maintained by monitoring only the temperature at the ceiling.

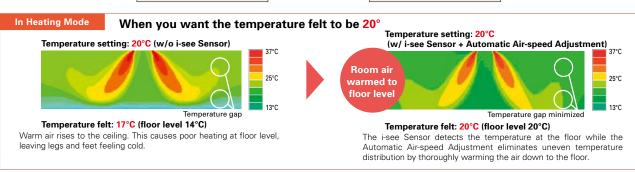
#### Without "i-see Sensor"

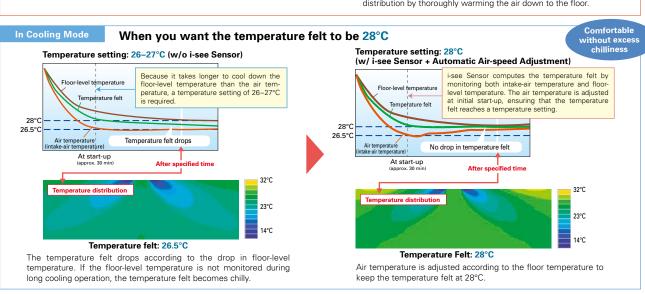
Only intake-air temperature at the ceiling was measured, tending to overlook uneven temperature distribution at floor level.

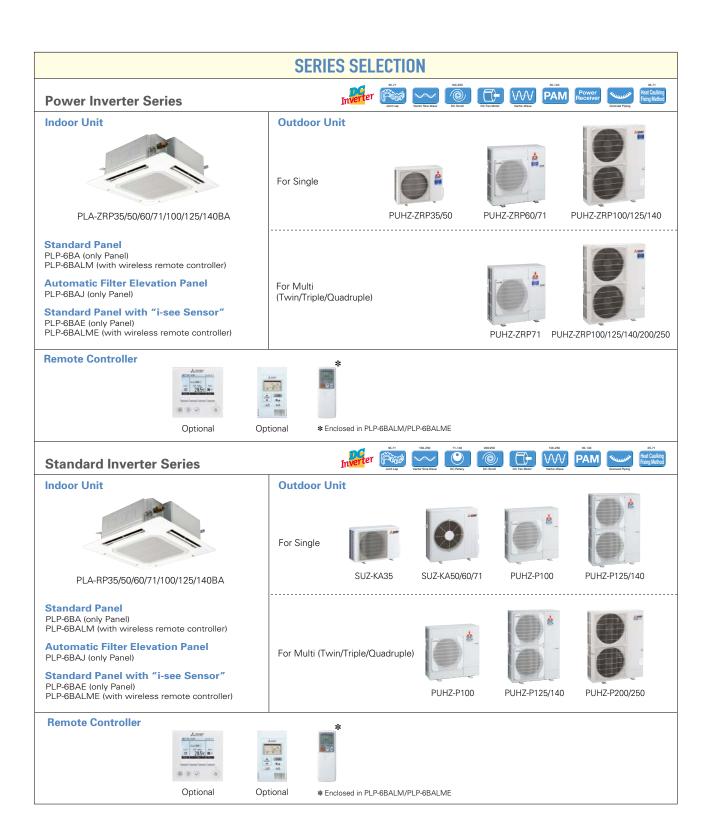


## Equipped with 4-Way Ceiling "i-see Sensor"

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.

		Outdoor Unit Capacity																			
Indoor	Indoor Unit Combination		For Single									For Twin					For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Inverter (PUHZ-ZRP)	35x1	50x1	60x1	71x1	100x1	125x1	140×1	-	-	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	-	MSDD-50TR-E MSDE		MSDD-	50WR-E	VR-E MSDT-111R-E		R-E	E MSDF-1111R-E			
Standa	ard Inverter (PUHZ-P & SUZ)	35x1	50x1	60x1	71x1	100x1	125x1	140×1	-	-	_	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	_	-	_	-	-	_	-	MSI	DD-50	ΓR-E	MSDD-	50WR-E	MSI	DT-111	R-E	MSDF-1	1111R-E



























































				Optional	Optonial	Optional	Opo	ona		Optional			
Туре								Inverter H	leat Pump				
Indoor U	nit			PLA- ZRP35BA	PLA- ZRP50BA	PLA- ZRP60BA	PLA- 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				•		•	R41	0A*1	•	•	•	•
Power	Source							Outdoor po	wer supply				
Supply	Outdoor (V/Phase	/Hz)					VKA·VKA2·	VHA:230 / Singl	le / 50, YKA2:40	0 / Three / 50			
Cooling	Capacity	Rated	l kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.5	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0
	Total Input	Rated	kW	0.79	1.43	1.78	1.77	2.16	2.16	3.87	3.87	4.37	4.37
	EER			-	-	-	_	-	-	3.23	3.23	3.07	3.07
		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	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
		<b>Energy Efficiency Class</b>		A++	A++	A++	A++	A++	A++	-	-	-	-
Heating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	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°0
		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°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 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
		<b>Energy Efficiency Class</b>		A++	A++	A+	Α+	A++	A++	-	_	-	-
	ng Current (max)		A	13.3	13.3	19.3	19.5	27.2	8.7	27.3	10.3	29.1	14.1
ndoor	Input	Rated	kW	0.04	0.04	0.04	0.05	0.08	0.08	0.09	0.09	0.12	0.12
Jnit	Operating Current		A	0.28	0.30	0.30	0.45	0.74	0.74	0.80	0.80	1.07	1.07
	Dimensions <panel></panel>	[H×W×D	mm		0 - 840 <35 - 95		05.0	00.0		0 - 840 <35 - 95		07.0	07.0
	Weight <panel></panel>		kg	23 <6>	23 <6>	23 <6>	25 <6>	26 <6>	26 <6>	27 <6>	27 <6>	27 <6>	27 <6>
	Air Volume [Lo-Miz		m³/min dB(A)		12-14-16-18 28-29-31-32	12-14-16-18	17-19-21-23 28-30-34-36	20-23-26-30	20-23-26-30	22-25-28-31	22-25-28-31	24-26-29-32	
	Sound Level (SPL)		dB(A)	54	55	55				66	66	70	70
Jutdoor	Sound Level (PWL	)   H × W × D			09 - 300		- 330 (+30)	65	65		) - 330 (+40)	70	//
Jutaoor Jnit	Dimensions Weight	[H × W × D	mm ka	43	19 - 300 1 46	943 - 950 · 67	67	116	123	1338 - 1050	125	118	131
J	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
	All volume			45.0				110.0	110.0	120.0	120.0	120.0	120.0
				4E 0	45.0								
	Sound Level (CDL)	Heating	m³/min	45.0	45.0	55.0	55.0						50
	Sound Level (SPL)	Cooling	m³/min dB(A)	44	44	47	47	49	49	50	50	50	50 52
		Cooling Heating	m³/min dB(A) dB(A)	44 46	44 46	47 48	47 48	49 51	49 51	50 52	50 52	50 52	52
	Sound Level (PWL)	Cooling Heating Cooling	m³/min dB(A) dB(A) dB(A)	44 46 65	44 46 65	47 48 67	47 48 67	49 51 69	49 51 69	50 52 70	50 52 70	50 52 70	52 70
	Sound Level (PWL) Operating Current	Cooling Heating Cooling	m³/min dB(A) dB(A) dB(A)	44 46 65 13.0	44 46 65 13.0	47 48 67 19.0	47 48 67 19.0	49 51 69 26.5	49 51 69 8.0	50 52 70 26.5	50 52 70 9.5	50 52 70 28.0	52 70 13.0
Fvt	Sound Level (PWL) Operating Current Breaker Size	Cooling Heating Cooling (max)	m³/min dB(A) dB(A) dB(A) A	44 46 65 13.0 16	44 46 65 13.0 16	47 48 67 19.0 25	47 48 67 19.0 25	49 51 69 26.5 32	49 51 69 8.0 16	50 52 70 26.5 32	50 52 70 9.5 16	50 52 70 28.0 40	52 70 13.0 16
Ext. Piping	Sound Level (PWL) Operating Current Breaker Size Diameter	Cooling Heating Cooling (max) Liquid / Gas	m³/min dB(A) dB(A) dB(A) A A A	44 46 65 13.0 16 6.35 / 12.7	44 46 65 13.0 16 6.35 / 12.7	47 48 67 19.0 25 9.52 / 15.88	47 48 67 19.0 25 9.52 / 15.88	49 51 69 26.5 32 9.52 / 15.88	49 51 69 8.0 16 9.52 / 15.88	50 52 70 26.5 32 9.52 / 15.88	50 52 70 9.5 16 9.52 / 15.88	50 52 70 28.0 40 9.52 / 15.88	52 70 13.0 16 9.52 / 15.88
Ext. Piping	Sound Level (PWL) Operating Current Breaker Size Diameter Max. Length	Cooling Heating Cooling (max)  Liquid / Gas Out-In	m³/min dB(A) dB(A) dB(A) A A A mm	44 46 65 13.0 16 6.35 / 12.7 50	44 46 65 13.0 16 6.35 / 12.7 50	47 48 67 19.0 25 9.52 / 15.88 50	47 48 67 19.0 25 9.52 / 15.88 50	49 51 69 26.5 32 9.52 / 15.88 75	49 51 69 8.0 16 9.52 / 15.88 75	50 52 70 26.5 32 9.52 / 15.88 75	50 52 70 9.5 16 9.52 / 15.88 75	50 52 70 28.0 40 9.52 / 15.88 75	52 70 13.0 16 9.52 / 15.8
Piping	Sound Level (PWL) Operating Current Breaker Size Diameter	Cooling Heating Cooling (max)  Liquid / Gas Out-In Out-In	m³/min dB(A) dB(A) dB(A) A A A	44 46 65 13.0 16 6.35 / 12.7	44 46 65 13.0 16 6.35 / 12.7	47 48 67 19.0 25 9.52 / 15.88	47 48 67 19.0 25 9.52 / 15.88	49 51 69 26.5 32 9.52 / 15.88	49 51 69 8.0 16 9.52 / 15.88	50 52 70 26.5 32 9.52 / 15.88	50 52 70 9.5 16 9.52 / 15.88	50 52 70 28.0 40 9.52 / 15.88	52 70 13.0 16 9.52 / 15.88

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

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

\*3 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.



































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Туре				Inverter Heat Pump										
Indoor Ur	nit			PLA- RP35BA	PLA- RP50BA	PLA- RP60BA	PLA- RP71BA	PLA-RF	2100BA	PLA-RF	2125BA	PLA-RP	140BA2	
Outdoor				SUZ- KA35VA5	SUZ- KA50VA5	SUZ- KA60VA5	SUZ- KA71VA5	PUHZ- P100VHA4	PUHZ- P100YHA2	PUHZ- P125VHA3	PUHZ- P125YHA	PUHZ- P140VHA3	PUHZ- P140YHA	
Refrigera				R410A*1										
Power	Source													
Supply	Outdoor (V/Phase	/Hz)		VA5 • VHA3 • VHA4:230 / Single / 50, YHA • YHA2:400 / Three / 50										
Cooling	Capacity	Rated	kW	3.6	5.5	6.1	7.1	9.4				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	1.090	1.660	1.910	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		-	-	-	-	
	Annual Electricity	Consumption*2	kWh/a	210	321	355	429	628		-	-	-	-	
	SEER			6.0	6.0	6.0	5.8	5.2		-	-	-	-	
		<b>Energy Efficiency Class</b>		A <sup>+</sup>	A <sup>+</sup>	A+	A+	Α	A	-	_	-	_	
	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2			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				5.0 - 18.0	5.0 - 18.0	
Season)	Total Input	Rated	kW	1.040	1.750	2.060	2.247	3.280	3.280			4.980	4.980	
	COP			-	_	-	_	-	-			3.21	3.21	
		EEL Rank		-	_	_	_	_	-	В	В	С	C	
	Design Load		kW	2.6	4.3	4.6	5.8	8.0		-	-	-	-	
	<b>Declared Capacity</b>	at reference design temperature	kW	2.3 (-10°C)	3.8 (-10°C)	4.0 (-10°C)	4.7 (-10°C)	6.3 (-10°C)		-	_	-	-	
		at bivalent temperature	kW	2.3 (-7°C)	3.8 (-7°C)	4.1 (-7°C)	5.1 (-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)		-	-	-	-	
	Back Up Heating (		kW	0.3	0.5	0.6	1.1	1.7		-	-	-	-	
	Annual Electricity	Consumption*2	kWh/a	867	1503	1562	1913	2945		-	-	-	-	
	SCOP			4.2	4.0	4.1	4.3	3.8		-	-	-	-	
		<b>Energy Efficiency Class</b>		A <sup>+</sup>	A <sup>+</sup>	A+	Α+	A				-	-	
	g Current (max)		Α	8.4	12.4	14.4	16.6	28.9				30.5	14.0	
Indoor	Input	Rated	kW	0.03	0.05	0.05	0.07	0.14				0.15	0.15	
Unit	Operating Current		Α	0.22	0.36	0.36	0.51	0.94	RP100BA PLA.RP125BA  PUHZ- PUHZ- PUHZ- P125YHA  110A**  power supply (50, YHA · YHAZ-400 / Three / 50  9.4 12.3 12.3  4.9-11.2 5.5-14.0 5.5-14.0  3.120 4.090 4.090  - 3.01 3.01  - B B B  9.4 628 5.2 A 11.2 14.0 14.0  4.5-12.5 5.0-16.0 5.0-16.0  3.280 4.110 4.110  - B B B  8.0 10.63 (-10°C)  - 7.1 (-7°C)  - 7.1 (-7°C)  1.7 2945 1.7 2945 1.3.8 1.3.9 29.0 14.0  0.14 0.15 0.15  0.14 0.15 0.15  0.14 0.15 0.15  0.19 0.14 0.15 0.15  0.19 0.14 0.15 0.15  0.19 0.14 0.15 0.15  0.19 0.14 0.15 0.15  0.10 0.2-32-630 22-25-28-31 22-25-28-31 10 32-33-40 100 0.00  60.0 100.0 100.0 100.0 60.0 60.0 100.0 60.0 100.0 60.0 100.0 150.0 150 150 150 150 150 150 150 150 150 15	1.00	1.00			
	Dimensions <panel></panel>	[H×W×D	mm			<35 - 950 - 950								
	Weight <panel></panel>		kg	22 <6>	22 <6>	23 <6>	23 <6>	25 <6>				27 <6>	27 <6>	
	Air Volume [Lo-Mi		m³/min			12-14-16-18		20-23-26-30	20-23-26-30	22-25-28-31				
	Sound Level (SPL)		dB(A)											
0.11	Sound Level (PWL	H×W×D	dB(A)	54 550 - 800 - 285	55	55 880 - 840 - 330	56	62		63		70	70	
Unit		[H×W×D	mm		54		53			00		- 330 (+30) 99	T 101	
Ollit	Weight	I Company	kg	35 36.3		50		75					100.0	
	Air Volume	Cooling	m³/min		44.6	40.9	50.1	60.0				100.0	100.0	
	Sound Level (SPL)	Heating	m³/min	34.8 49	44.6	49.2 55	48.2	60.0 50				100.0 52	52	
	Sound Level (SPL)	Cooling	dB(A)		52		55					52	52	
	Sound Level (PWL)	Heating	dB(A)	50 62	52 65	55 65	55 69	54 70				73	73	
				62 8.2	12.0	14.0	16.1	28.0				29.5	13.0	
	Operating Current	(max)	A	8.2	12.0	14.0	16.1	32				29.5 40	16	
F. A	Breaker Size	II :: / C		6.35 / 9.52	6.35 / 12.7			9.52 / 15.88					9.52 / 15.88	
Ext. Piping	Diameter	Liquid / Gas	mm			6.35 / 15.88 30	9.52 / 15.88					9.52 / 15.88 50	50	
	Max. Length	Out-In	m	20	30	30	30	50 30				30	30	
	Max. Height	Out-In	m	12	30	30	30	30	30	30	30	30	30	

Guaranteed Operating Range [Outdoor] Cooling\* \*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 CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

\*2 Energy consumption based on standard test results. Actual energy consumption based on standard test results are reference purpose only.

## PLZ-RP SERIES















Ampere Rotation Back-up Group Control Compo Wi-Fi v) MXZ Wiring Reuse Lift Up Down connection Composition















				Optional	Optional	Optional	Opt	ional		Optional					
Туре								Inverter H	eat Pump						
Indoor U	nit			PLA- RP35BA	PLA- RP50BA	PLA- RP60BA	PLA- RP71BA	PLA-RF	P100BA	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			2HF35VKA 2H 56VKA 2H 56VKA 2H 74VKA 2H 76VKA 2H 72VKA 2H 72VKA 2H 72VKA 2H 74VKA 2H											
Power	Source				Outdoor power supply										
Supply	Outdoor (V/Phase	e/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		
Operating Indoor Unit	SEER Energy Efficiency Class			6.5 A++	5.6 A+	5.7 A+	6.4 A++	6.5 A++	6.4 A++	5.0*4	4.9*4	5.5*4	5.5*4		
Heating	Capacity	Rated	l kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0		
	Capacity	Min - Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0		
	Total Input	Rated	kW	0.96	1.82	2.0 - 0.2	2.21	2.95	2.95	3.91	3.91	4.76	4.76		
,	COP	Triated	I KVV	- 0.50	-	-	-	-	-	3.58	3.58	3.36	3.36		
	00.	EEL Rank			_	_	_	_	_	-		-	- 0.00		
	Design Load		kW	2.3	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	2.3 (-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 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	kW 2.3 (-10°C) 3.8 (-10° kW 2.2 (-11°C) 3.7 (-11° kW 0 0	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		
	Annual Electricity	Consumption*2	kWh/a	750	1313	1576	1521	2511	2511	3304	3304	3746	3746		
	SCOP			4.3	4.1	3.9	4.3	4.3	4.3	3.9*4	3.9*4	4.0*4	4.0*4		
	L	Energy Efficiency Class		Α+	A+	Α	A+	Α+	Α+	_		-	-		
	g Current (max)	In	kW	13.2	13.4 0.05	19.4 0.05	19.5 0.07	27.4 0.14	8.9 0.14	27.5	10.5	29.1	14.1		
	Input Operating Current	Rated	A	0.03 0.22	0.05	0.05	0.07	0.14	0.14	0.15 1.00	0.15 1.00	0.16 1.07	0.16 1.07		
Oiiit	Dimensions <panel></panel>		mm			<35 - 950 - 950		0.94		298 - 840 - 840			1.07		
	Weight <panel></panel>	HXWXD	ka	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		12-14-16-18					22-25-28-31					
	Sound Level (SPL)		dB(A)			28-29-31-32		32-34-37-40		34-36-39-41					
	Sound Level (PWL		dB(A)	54	55	55	56	62	62	63	63	70	70		
Outdoor	Dimensions	H×W×D	mm		09 - 300		330 (+30)	-			- 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	t (max)	A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0		
Ext.	Breaker Size Diameter	Liquid / Gas	A	16 6.35 / 12.7	16 6.35 / 12.7	25 9.52 / 15.88	25 9.52 / 15.88	32 9.52 / 15.88	16 9.52 / 15.88	32 9.52 / 15.88	16 9.52 / 15.88	40 9.52 / 15.88	16 9.52 / 15.88		
Ext. Piping	Max. Length	Out-In	mm m	6.35 / 12.7 50	50	9.52 / 15.88	9.52 / 15.88 50	75	9.52 / 15.88 75	9.52 / 15.88 75	9.52 / 15.88 75	9.52 / 15.88 75	9.52 / 15.88 75		
, ibilia	Max. Length	Out-In	m	30	30	30	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	-15 ~ +46	-15 ~ +46	-15 ~ +46		
Outdoor		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-20 ~ +21		
, 5 0 10 00 1	,	pricating		11~ TZ1	'II'~ TZI	20~ TZ1	20 ~ TZ1	1 '20 ~ TZ I	1 '20 ~ TZ1	20 ~ TZ1	1 20 ~ TZ I	·20 ~ +21	1 ZU~ TZI		

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

\*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.





































































<del>-</del>			Optional	Optional	Optional Optional	Optional	Optional						
Гуре							leat Pump						
ndoor U	nit			PLA-ZR	P100BA	PLA-ZR	P125BA	PLA-ZRP140BA					
utdoor	Unit			PUHZ-P100VHA4	PUHZ-P100YHA2	PUHZ-P125VHA3	PUHZ-P125YHA	PUHZ-P140VHA3	PUHZ-P140YHA				
efrigera						R41							
ower	Source			Outdoor power supply									
upply	Outdoor (V/Phase/Hz)			230 / Single / 50	400 / Three / 50	230 / Single / 50	400 / Three / 50	230 / Single / 50	400 / Three / 50				
ooling	Capacity	Rated	kW	9.4	9.4	12.3	12.3	13.6	13.6				
		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			-	_	3.06	3.06	2.63	2.63				
		EEL Rank		-	_	В	В	D	D				
	Design Load		kW	9.4	9.4	-	-	-	-				
			kWh/a	610	610	-	_	_	-				
	SEER			5.4	5.4	_	-	-	ı				
		Energy Efficiency Class		A	A	-	-	_	-				
	Capacity	Rated	kW	11.2	11.2	14.0	14.0	16.0	16.0				
verage		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)	Total Input	Rated	kW	3.137	3.137	3.989	3.989	4.938	4.938				
	COP				-	3.51	3.51	3.24	3.24				
		EEL Rank			_	В	В	С	С				
	Design Load		kW	8.0	8.0	-	-	-	_				
		at reference design temperature	kW	6.3 (-10°C)	6.3 (-10°C)	-	-	-	-				
		at bivalent temperature	kW	7.1 (-7°C)	7.1 (–7°C)	-	-	-	-				
		at operation limit temperature	kW	5.0 (-15°C)	5.0 (-15°C)	-	-	-	-				
	Back Up Heating C		kW	1.7 2800	1.7 2800	-	-	-	-				
	Annual Electricity SCOP	Consumption*2	kWh/a			-	-	-					
	Energy Efficiency Class			4.0 A+	4.0 A+	-	-	_					
	g Current (max)	Energy Efficiency Class	Ι Δ	28.7	13.7	28.8	13.8	30.6	14.1				
door		Rated	kW	0.08	0.08	0.09	0.09	0.12	0.12				
aoor nit	Input Operating Current		A	0.08	0.08	0.80	0.80	1.07	1.07				
	Dimensions <panel></panel>		mm	0.74	0.74	298 - 840 - 840 -		1.07	1.07				
	Weight <panel></panel>			26 <6>	26 <6>	27 <6>	27 <6>	27 <6>	27 <6>				
			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 (PWL		dB(A)	65	65	66	66	70	70				
ıtdoor	Dimensions	H × W × D mm			- 330 (+30)	- 00		- 330 (+30)	70				
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				
	7 70	Heating	m³/min	60.0	60.0	100.0	100.0	100.0	100.0				
	Sound Level (SPL)	Cooling	dB(A)	50	50	51	51	52	52				
		Heating	dB(A)	54	54	55	55	56	56				
			dB(A)	70	70	71	71	73	73				
			A	28.0	13.0	28.0	13.0	29.5	13.0				
	Breaker Size		A	32	16	32	16	40	16				
ct.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88				
	Max. Length	Out-In	m	50	50	50	50	50	50				
	Max. Height	Out-In	m	30	30	30	30	30	30				
uarante		Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46				
			_			:							

Heating °C -15 ~ +21 -15 ~ +21 -15 ~ +21 I 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 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +21 | -15 +





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 wide-ranging 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 optional motor) Pa							
PEAD-RP GA	-	-		10/50/70Pa – –							
PEAD-RP JA			3	5/50/70/100/150Pa	a						

#### 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

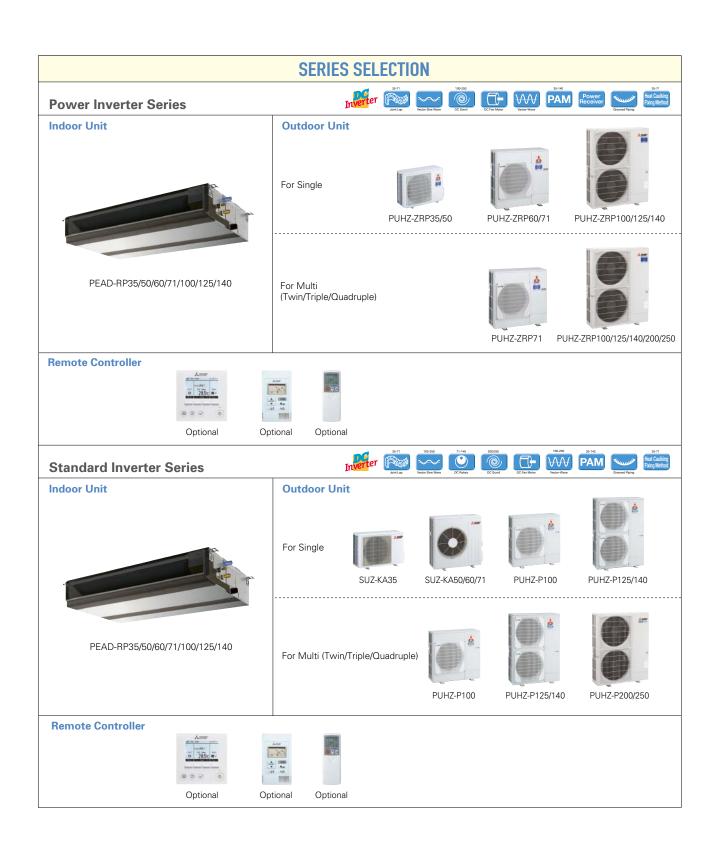






PEAD-RP JALQ  $\rightarrow$  No drain pump

\* 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.

		Outdoor Unit Capacity																			
Indoor	Indoor Unit Combination			For Single									For Twin						For Triple		
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Inverter (PUHZ-ZRP)	35x1	50x1	60x1	71x1	100x1	125x1	140×1	-	-	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	-	N	MSDD-	50TR-	E	MSDD-	50WR-E	MS	DT-111	1R-E	MSDF-1	1111R-E
Standa	ard Inverter (PUHZ-P&SUZ)	35x1	50x1	60x1	71x1	100x1	125x1	140x1	-	-	-	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	_	_	_	-	_	-	-	-	-	-	MSI	DD-50	ΓR-E	MSDD-	50WR-E	MS	DT-111	1R-E	MSDF-1	1111R-E









































Туре								nverter Heat P	ump				
Indoor Ur	nit			PEAD- RP35JA(L)Q	PEAD- RP50JA(L)Q	PEAD- RP60JA(L)Q	PEAD- RP71JA(L)Q	PEAD-RP1	I 00JA(L)Q	PEAD-RP	125JA(L)Q	PEAD-RP	140JA(L)Q
Outdoor I	Jnit			PUHZ- ZRP35VKA	PUHZ- ZRP50VKA	PUHZ- ZRP60VHA	PUHZ- ZRP71VHA	PUHZ- ZRP100VKA2	PUHZ- ZRP100YKA2	PUHZ- ZRP125VKA2	PUHZ- ZRP125YKA2	PUHZ- ZRP140VKA2	PUHZ- ZRP140YKA:
Refrigera	nt					•		R410		•	•	•	•
	Source							Outdoor po					
Supply	Outdoor (V/Phase	·/Hz)					VKA • VH	A:230 / Single /	50, YKA:400 / T	Three / 50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
•		Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.3	6.2 - 15.3
	Total Input	Rated	kW	0.89(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 (4.29)
	EER*5			-	-	-	_	-	-	3.24 (3.26)	3.24 (3.26)	3.10 (3.12)	3.10 (3.12)
		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	F F#:		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)*4
	0 '	Energy Efficiency Class		A+ (A+)	A(A+)	A+(A++)	A+ (A+)	A+ (A+)	A(A+)	-	-	-	-
Heating (Average	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
(Average Season)	T	Min - Max	kW	1.6 - 5.2 0.95	2.5 - 7.3 1.50	2.8 - 8.2 1.79	3.5 - 10.2 2.03	4.5 - 14.0 2.60	4.5 - 14.0 2.60	5.0 - 16.0 3.51	5.0 - 16.0 3.51	5.7 - 18.0 4.07	5.7 - 18.0 4.07
Jeason)	Total Input COP*5	Rated	KVV	0.95	1.50	1.79	2.03	2.00	2.60	3.99	3.99	3.93	3.93
	COP	EEL Rank		_			_	_		3.99	3.99	3.93	3.93
	Design Load	EEL NAIIK	l kW	2.4	3.8	4.4	4.9	7.8	7.8	9.3	9.3	10.6	10.6
		at reference design temperature		2.4 (-10°C)	3.8 (-10°C)	4.4(-10°C)	4.9 (-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	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.9 (-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)	3.7 (-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°C)
	Back Un Heating (	ack Up Heating Capacity kW			0.7(11.0)	0	0.7 ( 20 0)	0.0 ( 2.0 0)	0	0	0	0	0
	Annual Electricity		kWh/a	0 839	1231	1513	1762	2627	2627	3370	3370	3763	3763
	SCOP*5		1	4.0	4.3	4.1	3.9	4.2	4.2	3.9*4	3.9*4	4.0*4	4.0*4
		<b>Energy Efficiency Class</b>		A+	A+	A+	A	A+	A+	-	_	-	-
Operatin	g Current (max)		Α	14.1	14.4	20.6	21.0	29.2	10.7	29.3	12.3	30.8	15.8
Indoor	Input [Cooling / He	ating] Rated	kW					0.25(0.23)/0.23					
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 × W × D	mm		00-732		00-732			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-Mi		m³/min	10.0-12.0-14.0	12.0-14.5-17.0	14.5-18.0-21.0	17.5-21.0-25.0	24.0-29.0-34.0		29.5-35.5-42.0	29.5-35.5-42.0	32.0-39.0-46.0	32.0-39.0-46.
	External Static Pro		Pa					35 / 50 / 70					
	Sound Level (SPL)		dB(A)	23 - 27 - 30	26 - 31 - 35	25 - 29 - 33	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	33 - 36 - 40	34 - 38 - 43	34 - 38 - 43
04.1	Sound Level (PWL Dimensions		dB(A)	52 630 - 80	57	55 943 - 950	58	61	61	65	65 0 - 330 (+40)	66	66
Unit	Weight	$H \times W \times D$	kg	43	19 - 300 46	943 - 950 · 67	67	116	123	1338 - 1050	125	118	131
Jan.	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
	All Volume	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
	Country Level (OF L)	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 / 15.88
	Max. Length	Out-In	m	50	50	50	50	75	75	75	75	75	75
Piping		1	_		30	30	30	30	30	30	30	30	30
	Max. Height	Out-In	m	30	30	30	30	30	30		30	30	] 30
	ed Operating Range	Out-In Cooling*3	°C °C	-15 ~ +46 -11 ~ +21	-15 ~ +46 -11 ~ +21	-15 ~ +46 -20 ~ +21							

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
\*2 Energy consumption based on standard test results. Actual energy consumption 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 SENSCOP 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. \*6 Only the JAQ model is targeted for EUROVENT registration.







































Optional						
EUROVENT *5	PUHZ	JAQ	PUHZ			
CERTIFIED Coning in the rel	Wiring Reuse Optional	Drain Lift Up	Pump Down	Flare connection	Self Diagnosis	Failure Recal

Type				Inverter Heat Pump									
Indoor Ur	nit			PEAD- RP35JA(L)Q	PEAD- RP50JA(L)Q	PEAD- RP60JA(L)Q	PEAD- RP71JA(L)Q	PEAD-RP1	100JA(L)Ω	PEAD-RP	125JA(L)Q	PEAD-RP1	40JA(L)Q
Outdoor l				SUZ-KA35VA5	SUZ-KA50VA5	SUZ-KA60VA5	SUZ-KA71VA5	PUHZ- P100VHA4	PUHZ- P100YHA2	PUHZ- P125VHA3	PUHZ- P125YHA	PUHZ- P140VHA3	PUHZ- P140YHA
Refrigera								R41					
	Source							Outdoor po					
	Outdoor (V/Phase	/Hz)					45 • VHA3 • VH <i>A</i>						
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			-	_	-	-	-	1	2.91 (2.93)	2.91 (2.93)	3.01 (3.02)	3.01 (3.02)
		EEL Rank		-	-	-	-	-	ı	С	С	В	В
	Design Load		kW	3.6	4.9	5.7	7.1	9.4	9.4	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	229 (213)	318 (301)	351 (335)	429 (413)	716 (694)	716 (694)	-	-	-	-
	SEER*4			5.5 (5.9)	5.4 (5.7)	5.6 (5.9)	5.8 (6.0)	4.6 (4.7)	4.6 (4.7)	1	-	_	-
		Energy Efficiency Class		A (A+)	A (A+)	A+ (A+)	A+ (A+)	В	В	-	-	-	-
	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)	Total Input	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		kW	2.8	4.4	4.5	6.0	8.0	8.0	-	-	-	-
	Declared Capacity	at reference design temperature	kW	2.5 (-10°C)	3.9 (-10°C)	4.1 (-10°C)	5.3 (-10°C)	6.3 (-10°C)	6.3 (-10°C)	_	-	-	-
		at bivalent temperature	kW	2.5 (-7°C)	3.9 (-7°C)	4.1 (-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)	4.1 (-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	980	1466	1569	2153	2945	2945	-	-	-	-
	SCOP*4			4.0	4.2	4.0	3.9	3.8	3.8	-	-	-	-
		<b>Energy Efficiency Class</b>		A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>	A	А	А	-	-	-	-
Operatin	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	0.11(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)/0.37
Unit	Operating Current	(max)	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	250-9	00-732	250-11	00-732		250-14	00-732		250-16	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			29.5-35.5-42.0	29.5-35.5-42.0	32.0-39.0-46.0	32.0-39.0-46.0
	<b>External Static Pre</b>	essure	Pa					/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		943-950-			1350-950		
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
		Heating	dB(A)	50	52	55	55	54	54	55	55	56	56
	Sound Level (PWL)	Cooling	dB(A)	62	65	65	69	70	70	71	71	73	73
	<b>Operating Current</b>	(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	16	20	20	20	32	16	32	16	40	16
Ext.	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
Piping	Max. Length	Out-In	m	20	30	30	30	50	50	50	50	50	50
	Max. Height	Out-In	m	12	30	30	30	30	30	30	30	30	30
Guarantee	ed Operating Range	Cooling	°C	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46*3	-15 ~ +46* <sup>3</sup>	-15 ~ +46*3	-15 ~ +46*3	-15 ~ +46*3	-15 ~ +46*3
[Outdoor]		Heating	°C	10 .24	10 .24	10 .24	10 .24	15 .01	15 .01	15 .01	15 .01	15 .01	15 .21

Warranteed Uperating Kange
Cooling
Coo

### PEA

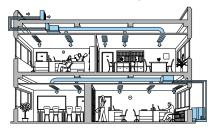
PEA-RP200/250/400/500GAQ

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.

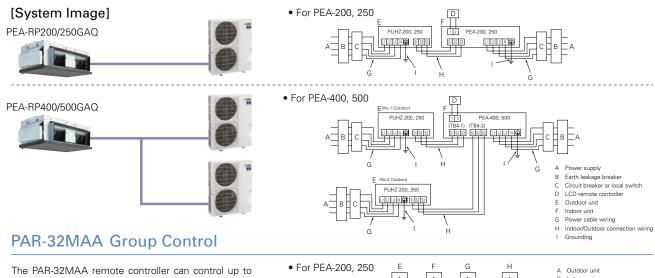


#### Long Refrigerant Piping Length

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.

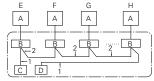
			Inverter ection	Standard Inverter Connection					
		Max. Length	Max. Height	Max. Length	Max. Height				
PEA-RP	200	100m	30m	70m	30m				
	250	100m	30m	70m	30m				
	400	100m	30m	70m	30m				
	500	100m	30m	70m	30m				

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



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.



- 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 \* Two units are used when connecting PEA-RP400/500GAQ. **Remote Controller** Power Standard Inverter Inverter Series Series PUHZ-ZRP200/250 PUHZ-P200/250 Optional PEA-RP200/250/400/500GAO Optional

#### PEZ-RP SERIES















































Гуре						Heat Pump	
Indoor Ur	nit			PEA-RP200GAQ	PEA-RP250GAQ	PEA-RP400GAQ	PEA-RP500GAQ
Outdoor I	Unit			PUHZ-ZRP200YKA	PUHZ-ZRP250YKA	PUHZ-ZRP200YKA x 2	PUHZ-ZRP250YKA x :
Refrigera	nt				R4	10A*1	
Power	Source				Outdoor p	ower supply	
Supply	Outdoor (V/Phase	e/Hz)			400 / 7	hree / 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			2.94	2.65	3.05	2.57
		EEL Rank		-	-	-	-
leating	Capacity	Rated	kW	22.4	27.0	44.8	54.0
Average		Min - Max	kW	9.5 - 25.0	12.5 - 31.0	18.0 - 50.0	25.0- 62.0
eason)	Total Input	Rated	kW	6.94	8.94	13.43	18.36
	СОР	•		3.23	3.02	3.34	2.94
		EEL Rank		_	-	-	-
peratin	g Current (max)	•		21.0	23.3	41.8	47.4
ndoor	Input [Cooling / He	eating] Rated	kW	1.000	1.180	1.550	2.840
Jnit	Operating Curren	t (max)	A	2.0	2.3	3.8	5.4
	Dimensions	H x W x D	mm	400 - 1400 - 634	400 - 1600 - 634	595 - 19	47 - 764
	Weight	<u>'</u>	kg	70	77	130	133
	Air Volume [Lo-M	id-Hi]	m³/min	52.0 - 65.0	64.0 - 80.0	120.0	160.0
	External Static Pr	essure	Pa	150	150	150	150
	Sound Level (SPL	) [Lo-Mid-Hi]	dB(A)	48 - 51	49 - 52	52*2	53*2
	Sound Level (PWI	_)	dB(A)	15	15	15	15
utdoor	Dimensions	H x W x D	mm	1338 - 105	0 - 330(+40)	1338 - 1050	0 - 330(+40)
Init	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 Curren	t (max)	А	19.0	21.0	19.0	21.0
	Breaker Size		А	32	32	32	32
xt.	Diameter	Liquid / Gas	mm	9.52 / 25.4	12.7 / 25.4	9.52 / 25.4	12.7 / 25.4
iping	Max. Length	Out-In	m	100	100	100	100
	Max. Height	Out-In	m	30	30	30	30
Guarante	ed Operating Range	Cooling*3	℃	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
Outdoo		Heating	°C	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21

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



























PE	<u>Z</u> -	P	SER	IES	
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JIANDAI	KU INVEKIEK	Option	al Optional	Down Down	Diagnosis		
Туре					Inverter I	Heat Pump	
Indoor Ur	nit			PEA-RP200GAQ	PEA-RP250GAQ	PEA-RP400GAQ	PEA-RP500GAQ
Outdoor l	Jnit			PUHZ-P200YKA	PUHZ-P250YKA	PUHZ-P200YKA x 2	PUHZ-P250YKA x 2
Refrigera	nt				R41	0A*1	
Power	Source				Outdoor po	ower supply	
Supply	Outdoor (V/Phase	e/Hz)			400 / Ti	nree / 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		=	-	-	=
Heating	Capacity	Rated	kW	22.4	27.0	44.8	54.0
(Average		Min - Max	kW	9.5 - 25.0	12.5 - 31.0	18.0 - 50.0	25.0- 62.0
Season)	Total Input	Rated	kW	7.10	9.31	13.75	19.10
	COP	•	·	3.15	2.90	3.26	2.83
		EEL Rank		-	-	-	-
Operatin	g Current (max)			21.0	23.3	41.8	47.4
Indoor	Input [Cooling / He	eating] Rated	kW	1.000	1.180	1.550	2.840
Unit	Operating Current (max) Dimensions H x W x D		А	2.0	2.3	3.8	5.4
			mm	400 - 1400 - 634	400 - 1600 - 634	595 - 19	47 - 764
	Weight		kg	70	77	130	133
	Air Volume [Lo-Mi	id-Hi]	m³/min	52.0 - 65.0	64.0 - 80.0	120.0	160.0
	External Static Pro	essure	Pa	150	150	150	150
	Sound Level (SPL)	[Lo-Mid-Hi]	dB(A)	48 - 51	49 - 52	52* <sup>2</sup>	53* <sup>2</sup>
	Sound Level (PWL	.)	dB(A)	15	15	15	15
Outdoor	Dimensions	H x W x D	mm	1338 - 1050	) - 330(+40)	1338 - 1050	- 330(+40)
Unit	Weight		kg	127	135	127	135
	Air Volume	Cooling	m³/min	140	140	140	140
		Heating	m³/min	140	140	140	140
	Sound Level (SPL)	Cooling	dB(A)	58	59	58	59
		Heating	dB(A)	60	62	60	62
	Sound Level (PWL)	Cooling	dB(A)	78	77	78	77
	Operating Current	t (max)	A	19.0	21.0	19.0	21.0
	Breaker Size		А	32	32	32	32
Ext.	Diameter	Liquid / Gas	mm	9.52 / 25.4	12.7 / 25.4	9.52 / 25.4	12.7 / 25.4
Piping	Max. Length	Out-In	m	70	70	70	70
	Max. Height	Out-In	m	30	30	30	30
	ed Operating Range	Cooling*3	℃	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
[Outdoor]		Heating	°C	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21

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





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.

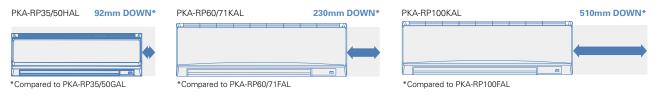
#### Flat Panel & Pure White Finish

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.



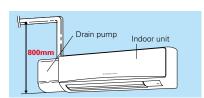
#### ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

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-32MAA and PAC-YT52CRA wired remote controllers can be used as well

\* Connection to PAR-32MAA/PAC-YT52CRA requires PAC-SH29TC-E (optional).

# Main Functions • Night Setback • Energy- saving Mode • Multi Language • Weekly Timer • Refrigerant Leak Check \* For details, please refer to pages 25-28.



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

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

				Outdoor Unit Capacity																		
Indoor	Indoor Unit Combination			For Single								For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250	
Power	Inverter (PUHZ-ZRP)	35x1	50x1	60x1	71x1	100x1	-	-	-	-	35x2	50x2	60x2	71x2	100x2	-	50x3	60x3	71x3	50x4	60x4	
	Distribution Pipe	-	_	-	-	-	-	-	-	-	N	MSDD-	50TR-	E	MSDD-50WR-E	_	MSI	DT-111	IR-E	MSDF-1	1111R-E	
Standa	ard 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	IR-E	MSDF-1	1111R-E	













































	E-thurs
4	Failure
Self	Popol

Туре						Inverter H			
ndoor Ur	nit			PKA-RP35HAL	PKA-RP50HAL	PKA-RP60KAL	PKA-RP71KAL	PKA-RP	100KAL
Outdoor I	Jnit			PUHZ-ZRP35VKA	PUHZ-ZRP50VKA	PUHZ-ZRP60VHA	PUHZ-ZRP71VHA	PUHZ-ZRP100VKA2	PUHZ-ZRP100YKA
efrigera	nt					R41	DA*1	1	
ower	Source					Outdoor po	wer supply		
upply	Outdoor (V/Phase	/Hz)				VKA • VHA:230 / Single /	50, YKA:400 / Three / 50		
ooling	Capacity	Rated	kW	3.6	4.6	6.1	7.1	9.5	9.5
Jooning	Cupuonty	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				_	_			=
		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			5.7	5.3	6.3	6.5	6.1	6.0
		Energy Efficiency Cla	ass	A+	A	A++	A++	A++	A+
eating	Capacity	Rated	kW	4.1	5.0	7.0	8.0	11.2	11.2
verage		Min - Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0
eason)	Total Input	Rated	kW	1.07	1.50	1.96	2.19	3.04	3.04
	COP		·	-	-	-	-	-	-
		EEL Rank		_	-	-	-	-	-
	Design Load		kW	2.4	3.3	4.4	4.7	7.8	7.8
	<b>Declared Capacity</b>	at reference design temperat	ure 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 reference design temperat at bivalent temperature at operation limit temperatu	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		ıre 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	0	0
	<b>Annual Electricity</b>	Consumption*2	kWh/a	847	1160	1473	1532	2608	2608
	SCOP			3.9	4.0	4.2	4.3	4.1	4.1
		Energy Efficiency Cla		A	A+	A+	A <sup>+</sup>	A <sup>+</sup>	A+
	g Current (max)	-	A	13.4	13.4	19.4	19.4	27.1	8.6
	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>	[H×W×D	mm		98 - 249		365 - 11		
	Weight <panel></panel>		kg	13	13	21	21	21	21
	Air Volume [Lo-Mie		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 60	36 - 40 - 43 60	39 - 42 - 45 64	39 - 42 - 45 64	41 - 45 - 49 65	41 - 45 - 49 65
4 . 1	Sound Level (PWL Dimensions	.) H×W×D			09 - 300		- 330 (+30)		) - 330 (+40)
	Weight	I H X VV X D	mm ka	43	46	67	67	116	123
	Air Volume	Cooling	m³/min	45.0	45.0	55.0	55.0	110.0	110.0
	Air volume	Heating	m³/min	45.0 45.0	45.0 45.0	55.0	55.0	110.0	110.0
	Sound Level (SPL)	Cooling	dB(A)	45.0	45.0	47	47	49	49
	Sound Level (SPL)	Heating	dB(A)	46	46	48	48	51	51
	Sound Level (PWL)		dB(A)	65	65	67	67	69	69
	Operating Current		A A	13.0	13.0	19.0	19.0	26.5	8.0
	Breaker Size	(IIIaX)	A	16	16	25	25	32	16
	Diameter	Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	50	50	50	50	75	75
	Max. Height	Out-In	m	30	30	30	30	30	30
Suaranto	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
Outdoorl	or oberaming manage	Heating	- €	-11 ~ +21	-15 ~ +40 -11 ~ +21	-15 ~ +40 -20 ~ +21	-15 ~ +40 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +40 -20 ~ +21
Satuodij						ibute less to global warmin			

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

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

\*3 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.eurovent-certification	com		Optional Optional	
Туре				Inverter H	leat Pump
ndoor Ur	nit			PKA-RF	P100KAL
Outdoor I	Unit			PUHZ-P100VHA4	PUHZ-P100YHA2
Refrigera	nt			R41	0A*1
	Source				ower supply
upply	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
		<b>Energy Efficiency Class</b>		В	В
eating	Capacity	Rated	kW	11.2	11.2
verage		Min - Max	kW	4.5 - 12.5	4.5 - 12.5
eason)	Total Input	Rated	kW	3.490	3.490
	Design Load		kW	7.0	7.0
	Declared Capacity	at reference design temperature		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 (		kW	1.4	1.4
	<b>Annual Electricity</b>	Consumption*2	kWh/a	2579	2579
	SCOP			3.8	3.8
		Energy Efficiency Class		A	A
	g Current (max)		A	28.6	13.6
	Input	Rated	kW	0.08	0.08
	Operating Current		А	0.57	0.57
	Dimensions <panel></panel>	[H×W×D	mm		170 - 295
	Weight <panel></panel>		kg	21	21
	Air Volume [Lo-Mic		m³/min dB(A)	20 - 23 - 26 41 - 45 - 49	20 - 23 - 26 41 - 45 - 49
	Sound Level (SPL) Sound Level (PWL	[LO-IVIIG-HI]	dB(A)	65	65
	Dimensions	H×W×D	mm		- 330 (+30)
	Weight	IH X VV X D	kg	75	- 330 (+30)
	Air Volume	Cooling	m³/min	60.0	60.0
	An volume	Heating	m³/min	60.0	60.0
	Sound Level (SPL)		dB(A)	50	50
	Count Level (SFL)	Heating	dB(A)	54	54
	Sound Level (PWL)		dB(A)	70	70
	Operating Current		A	28.0	13.0
	Breaker Size	1111011	Â	32	16
	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	50	5.02 / 10.00
	Max. Height	Out-In	m	30	30
	ed Operating Range		°C	-15 ~ ±46	-15 ~ ±46





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.

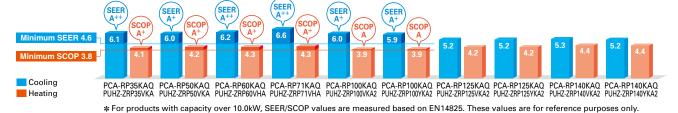
#### Stylish Indoor Unit Design

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.



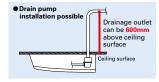
#### ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

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



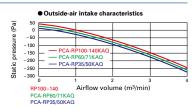
#### Equipped with Automatic Air-speed Adjustment

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



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.







Pull the handle to easily slide the filter out

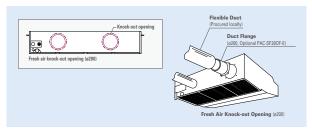
#### Easy Maintenance – Even for Cleaning the Fan

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



#### Fresh Outside-air Intake (Option)

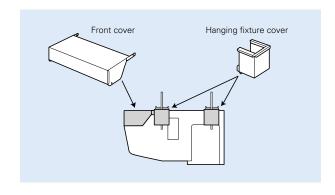
There is a knock-out opening on the rear panel of the unit that can be used to bring fresh air into the unit. This helps to improve ventilation and make the kitchen comfortable.



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

#### Cosmetic Front and Hanging Fixture Covers (Option)

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





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

										Outd	oor Ur	nit Cap	acity								
Indoor	Unit Combination				Fo	or Sing	gle						For	Twin			Fo	or Trip	le	For Qua	adruple
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Power Inverter (PUHZ-ZRP)		50x1	60x1	71x1	100x1	125x1	140x1	-	-	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe		-	-	-	-	-	-	-	-	-	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.

										Outd	oor Ui	nit Cap	acity								
Indoor	Unit Combination				Fo	or Sing	gle						For	Twin			F	or Trip	le	For Qua	adruple
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Inverter (PUHZ-ZRP)	-	-	-	71x1	-	-	-	-	-	-	-	-	71x2	-	-	-	-	71x3	-	_
	Distribution Pipe	-	-	-	-	-	-	-	-	1	-	_	-	MSDD-50TR-E	-	-	-	-	MSDT-111R-E	-	-
Standa	rd Inverter (PUHZ-P)	-	-	-	-	-	-	-	-	-	-	-	-	71x2	-	-	-	-	71x3	-	-
	Distribution Pipe	-	-	-	-	-	-	-	-	ı	ı	-	ı	MSDD-50TR-E	-	-	ī	-	MSDT-111R-E	-	-

























































	www.murovers.combilization		Optional	Optional	Optional	Optional		$\overline{}$	Optional	Optional			
Туре								Inverter H	eat Pump				
Indoor 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- 7RP100VKA2	PUHZ- 7RP100YKA2	PUHZ- 7RP125VKA2	PUHZ- ZRP125YKA2	PUHZ- 7RP140VKA2	PUHZ- 7RP140YKA
Refrigera	nt			ZIII OOTIOT					0A*1				
Power	Source								wer supply				
Supply	Outdoor (V/Phase	/Hz)					VKA • VH	A:230 / Single /		Three / 50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
Jooning	oupuoit,	Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0
	Total Input	Rated	kW	0.86	1.34	1.66	1.82	2.42	2.42	3.98	3.98	3.95	3.95
	EER	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			6.1	6.0	6.2	6.6	6.0	5.9	5.2*4	5.2*4	5.3*4	5.2*4
		<b>Energy Efficiency Class</b>		A++	A+	A++	A++	A+	A+	-	-	-	_
leating	Capacity	Rated	kW	4.1	5.5	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
Average		Min - Max	kW	1.6-5.2	2.5 - 6.6	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Season)	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
	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 1257	0 1458	0 1519	0 2837	0 2837	0	0	0	0
	Annual Electricity SCOP	Consumption**	kWh/a	815 4.1	4.2	4.3	4.3	3.9	3.9	3097 4.2* <sup>4</sup>	3097 4.2* <sup>4</sup>	3366 4.4* <sup>4</sup>	3366 4.4* <sup>4</sup>
	SCOP	Energy Efficiency Class		4.1 A+	4.2 A+	4.3 A <sup>+</sup>	4.3 A+	3.9 A	3.9 A	4.2**	4.2	4.4**	4.4**
Ingratio	g Current (max)	Lifergy Efficiency Class	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
Jnit	Operating Current		A	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76	0.90	0.90
	Dimensions <panel></panel>		mm	230 - 96			80 - 680	0.00	0.00		300 - 680	0.50	0.50
	Weight <panel></panel>		ka	24	25	32	32	36	36	38	38	39	39
	Air Volume [Lo-Mi2	2-Mi1-Hil	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			- 330 (+30)				0 - 330 (+40)		
Jnit	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)	A	13.0	13.0	19.0 25	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size	Liquid / Gas	A	16 6.35 / 12.7	16 6.35 / 12.7	9.52 / 15.88	25 9.52 / 15.88	32 9.52 / 15.88	16 9.52 / 15.88	32 9.52 / 15.88	16 9.52 / 15.88	40 9.52 / 15.88	16 9.52 / 15.8
Ext. Piping	Diameter		mm				9.52 / 15.88	9.52 / 15.88 75	9.52 / 15.88 75				
riping	Max. Length Max. Height	Out-In Out-In	m m	50 30	50 30	50 30	30	30	30	75 30	75 30	75 30	75 30
Zuaranto			°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
Outdoor		Heating	°C	-15 ~ +46 -11 ~ +21	-15 ~ +46 -11 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +4c
Cataool	1	meaurig	L C	-II ~ +ZI	-II ~ +ZI	-20 ~ +21	-20 ~ +21	ZU ~ +Z I	+ZI	-2U ~ +21	1 -20 ~ +21	-2U ~ +21	<del>-</del>

<sup>|</sup> Heating | C | -1| C + 2| | -2| C + 2| | -2

































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Type								Inverter F	leat Pump				
Indoor U	nit			PCA-RP35KAQ	PCA-RP50KAQ	PCA-RP60KAQ	PCA-RP71KAQ	PCA-RP	100KAQ	PCA-RP	125KAQ	PCA-RP	140KAQ
Outdoor	Unit			SUZ-KA35VA5	SUZ-KA50VA5	SUZ-KA60VA5	SUZ-KA71VA5	PUHZ-P100VHA4	PUHZ-P100YHA2	PUHZ-P125VHA3	PUHZ-P125YHA	PUHZ-P140VHA3	PUHZ-P140YH
Refrigera	int							R41	0A*1				
Power	Source							Outdoor po	ower supply				
Supply	Outdoor (V/Phase	/Hz)				VA	45 · VHA3 · VHA	4:230 / Single /	/ 50, YHA • YHA	2:400 / Three / !	50		
Cooling	Capacity	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
	Total Input	Rated	kW	1.050	1.550	1.720	2.060	3.130	3.130	4.090	4.090	4.840	4.840
	EER	•	•	-	-	-	-	-	-	3.01	3.01	2.81	2.81
		EEL Rank		-	-	-	-	-	-	В	В	С	С
	Design Load	•	kW	3.6	5.0	5.7	7.1	9.4	9.4	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a		307	332	414	645	645	-	-	-	-
	SEER			5.9	5.7	6.0	6.0	5.1	5.1	-	-	-	-
		Energy Efficiency Class		A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>	A+	A	A	-	-	_	-
Heating	Capacity	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
Season)	Total Input	Rated	kW	1.130	1.520	1.910	2.180	3.280	3.280	4.120	4.120	4.690	4.690
	COP			-	-	_	-	_	-	3.40	3.40	3.41	3.41
		EEL Rank		-	-	-	-	-	-	С	С	В	В
	Design Load		kW	2.6	4.0	4.8	5.8	8.0	8.0	-	-	-	_
	Declared Capacity	at reference design temperature		2.3 (-10°C)	3.6 (-10°C)	4.0 (-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)	3.6 (-10°C)	4.0 (-10°C)	5.2 (-10°C)	5.0 (-15°C)	5.0 (-15°C)	-	-	-	-
	Back Up Heating (		kW	0.3	0.4	0.8	0.6	1.7	1.7	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a		1398	1678	2028	2945	2945	-	-	-	-
	SCOP			4.1	4.0	4.0	4.0	3.8	3.8	-	-	-	-
•		Energy Efficiency Class		A+	A+	Α+	A+	A	A	-	-	-	-
	ng Current (max)	In	A	8.5	12.4	14.4	16.5	28.7	13.7	28.8	13.8	30.4	13.9
Indoor Unit	Input	Rated	kW	0.04	0.05 0.37	0.06 0.39	0.06	0.09	0.09	0.11	0.11	0.14 0.90	0.14
Ollit	Operating Current		A	230-96		230-12	0.42	0.65	0.65	0.76	0.76 600-680	0.90	0.90
	Dimensions <panel> Weight <panel></panel></panel>	[H × W × D	mm kg	230-96	25	32	32	36	36	38	38	39	39
	Air Volume [Lo-Mi	2 M;1 ⊔;1	m³/min		10 11 12 15	15-16-17-19	16 17 10 20	22 24 26 20	22 24 26 20				
	Sound Level (SPL)		dB(A)	21 22 26 20	22 24 27 40	33-35-37-40	25 27 20 41	22-24-20-28	22-24-20-28	23-25-27-29	23-25-27-29	24-20-29-32 41 42 4E 40	24-20-29-32
	Sound Level (PWL		dB(A)	60	60	60	62	63	63	65	65	68	68
Outdoor	Dimensions	H × W × D	mm	550 - 800 - 285		880 - 840 - 330			- 330 (+30)	00		- 330 (+30)	0
Unit	Weight	III V V V V D	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
	All Volume	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
		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		A	8.2	12.0	14.0	16.1	28.0	13.0	28.0	13.0	29.5	13.0
	Breaker Size	,	À	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
		1	0.0	10 10	-15 ~ +46	15 10	45 40	45 40*3	-15 ~ +46*3	-15 ~ +46*3	-15 ~ +46*3	-15 ~ +46*3	-15 ~ +46* <sup>3</sup>
Guarante	ed Operating Range	Cooling	°C	-10 ~ +46	-15 ~ +40 .	-15 ~ +46	-15 ~ +46	-15 ~ +46*3	-15 ~ +46 ···	-15 ~ +40°°	-15 ~ +40 ***	-15 ~ +46 **	-15 ~ +46""

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

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

\*3 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.







































ое				Inverter Heat Pump
loor U	nit			PCA-RP71HAQ
			-	
itdoor				PUHZ-ZRP71VHA
efrigera				R410A*1
wer	Source	<b></b>		Outdoor power supply
ıpply	Outdoor (V/Phase			230 / Single / 50
ooling	Capacity	Rated	kW	7.1
		Min - Max	kW	3.3 - 8.1
	Total Input	Rated	kW	2.17
	EER			-
		EEL Rank		<del>-</del>
	Design Load		kW	7.1
	<b>Annual Electricity</b>	Consumption*2	kWh/a	447
	SEER			5.6
		<b>Energy Efficiency Class</b>		A+
	Capacity	Rated	kW	7.6
erage/		Min - Max	kW	3.5 - 10.2
ason)	Total Input	Rated	kW	2.35
	COP			-
		EEL Rank		-
	Design Load		kW	4.7
	Declared Capacity	at reference design temperature	kW	4.7 (–10°C)
		at bivalent temperature	kW	4.7 (–10°C)
		at operation limit temperature	kW	3.5 (-20°C)
	Back Up Heating (		kW	0
	Annual Electricity	Consumption*2	kWh/a	1751
	SCOP	•		3.8
		<b>Energy Efficiency Class</b>		A
eratir	ng Current (max)		A	19.4
door	Input	Rated	kW	0.09
nit	Operating Current	(max)	Α	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)	[Lo-Hi]	dB(A)	34 - 38
	Sound Level (PWL	)	dB(A)	56
utdooi	Dimensions	$H \times W \times D$	mm	943 - 950 - 330 (+30)
nit	Weight		kg	67
	Air Volume	Cooling	m³/min	55.0
		Heating	m³/min	55.0
	Sound Level (SPL)		dB(A)	47
		Heating	dB(A)	48
	Sound Level (PWL)	Cooling	dB(A)	67
	Operating Current	(max)	Α	19.0
	Breaker Size		А	25
t.	Diameter	Liquid / Gas	mm	9.52 / 15.88
oing	Max. Length	Out-In	m	50
. •	Max. Height	Out-In	m	30
uarante		Cooling*3	°C	-15 ~ +46
	]	Heating	°C	-20 ~ +21

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

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

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

## PSA SERIES

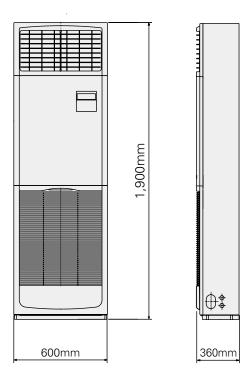
Installation of this floor-standing series is easy and quick. An excellent choice when there is a sudden need for an air conditioner to be installed.



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

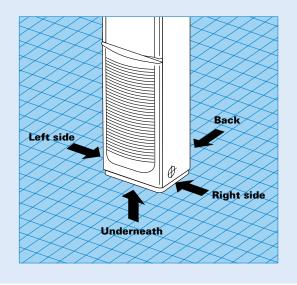
The floor-standing indoor unit is mounted on the floor, enabling quick installation. Its compact body requires only minimal space.

#### 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**

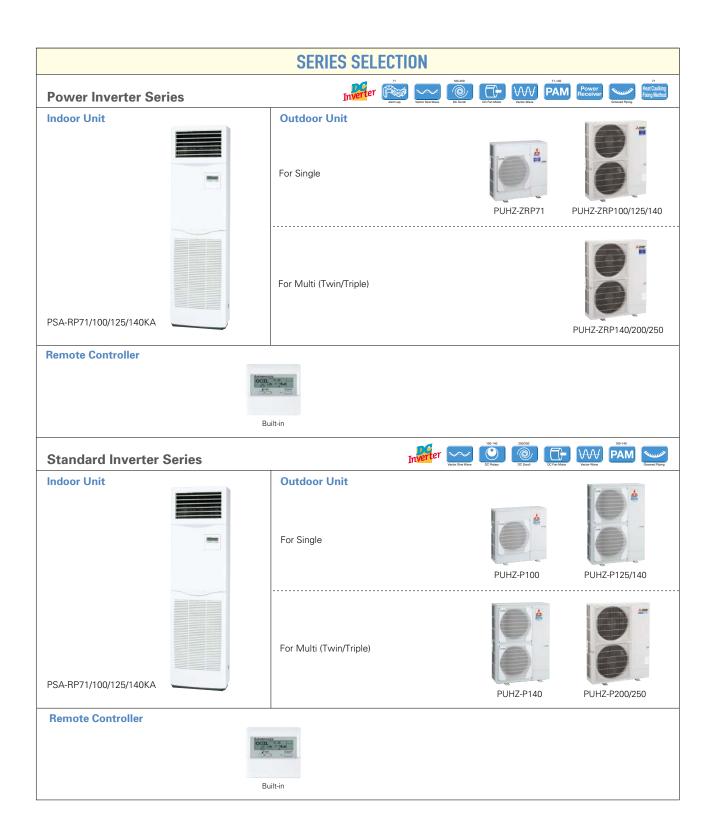
#### Easy Operation with Built-in PAR-21MAA Remote Controller

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	pacity								
Indoor	Unit Combination				Fo	or Sing	gle						For	Twin			Fo	or Trip	le	For Qua	adruple
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Inverter (PUHZ-ZRP)	-	-	-	71x1	100x1	125x1	140x1	-	-	-	-	-	71x2	100x2	125x2	-	-	71x3		-
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	_	-	MSDD-50TR-E	MSDD-	50WR-E	-	-	MSDT-111R-E		-
Standa	rd Inverter (PUHZ-P)	-	-	-	-	100x1	125x1	140x1	-	-	-	-	-	71x2	100x2	125x2	-	-	71x3		_
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	_	-	MSDD-50TR-E	MSDD-	50WR-E	-	-	MSDT-111R-E	-	_









































			Optional							
Туре							Inverter Heat Pump			
Indoor U	nit			PSA-RP71KA	PSA-RF	100KA	PSA-RF	125KA	PSA-RF	140KA
Outdoor	Unit			PUHZ-ZRP71VHA	PUHZ-ZRP100VKA2	PUHZ-ZRP100YKA2	PUHZ-ZRP125VKA2	PUHZ-ZRP125YKA2	PUHZ-ZRP140VKA2	PUHZ-ZRP140YKA
Refrigera	nt						R410A*1			
Power	Source						Outdoor power supply			
Supply	Outdoor (V/Phase	/Hz)				VKA • VHA:23	30 / Single / 50, YKA:40	0 / Three / 50		
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
		<b>Energy Efficiency Class</b>		Α++	Α+	А	_	1	-	1
Heating	Capacity	Rated	kW	7.6	11.2	11.2	14.0	14.0	16.0	16.0
Average		Min - Max	kW	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Season)	Total Input	Rated	kW	2.21	3.08	3.08	4.24	4.24	4.79	4.79
	COP			-	-	-	3.30	3.30	3.34	3.34
		EEL Rank		-			-	-	-	-
	Design Load		kW	4.7	7.8	7.8	9.3	9.3	10.6	10.6
	Declared Capacity	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)
		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	0	0	0	0
	Annual Electricity SCOP	Consumption**	kWh/a	1666	2761	2761	3285 4.0* <sup>4</sup>	3285 4.0* <sup>4</sup>	3331 4.4* <sup>4</sup>	3331 4.4* <sup>4</sup>
	SCOP	Energy Efficiency Class		4.0 A+	4.0 A+	4.0 A+	4.0^7	4.0^7	4.4^*	4.4^*
Onorotin	g Current (max)	Ellergy Elliciency Class	ΙA	19.4	27.2	8.7	27.2	10.2	28.7	13.7
ndoor	Input	Rated	kW	0.06	0.11	0.11	0.11	0.11	0.11	0.11
Jnit	Operating Current		A	0.4	0.71	0.71	0.73	0.73	0.73	0.73
	Dimensions <panel></panel>		mm	0.4	0.71	0.71	1900 - 600 - 360	0.73	0.75	0.73
	Weight <panel></panel>	IIIXVVXD	kg	46	46	46	46	46	48	48
	Air Volume [Lo-Mi	d-Hil	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
Outdoor	Dimensions	H×W×D	mm	943-950-330(+30)				0-330(+40)		
Jnit	Weight	•	kg	67	116	123	116	125	118	131
	Air Volume	Cooling	m³/min	55.0	110.0	110.0	120.0	120.0	120.0	120.0
		Heating	m³/min	55.0	110.0	110.0	120.0	120.0	120.0	120.0
	Sound Level (SPL)	Cooling	dB(A)	47	49	49	50	50	50	50
		Heating	dB(A)	48	51	51	52	52	52	52
	Sound Level (PWL)		dB(A)	67	69	69	70	70	70	70
	Operating Current	t (max)	А	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size		Α	25	32	16	32	16	40	16
xt.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
Piping	Max. Length	Out-In	m	50	75	75	75	75	75	75
	Max. Height	Out-In	m	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
[Outdoor		Heating	°C	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21

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

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

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PSA-RP140KA





















PSA-RP125KA





PSA-RP140KA



JINVERIER
CERTIFIED PERFORMANCE





















PSA-RP125KA













			Optional	Down	Diagnos		recall
Туре							
Indoor U	nit				PSA-RP100KA		PSA-RP100K
Outdoor	Unit				PUHZ-P100VHA4	1	PUHZ-P100YH
Refrigera	nt						
Power	Source						
Supply	Outdoor (V/Ph	nase/Hz)					
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

indoor Ur	1IT			PSA-RPTUUKA	PSA-RPTOUKA	PSA-RP125KA	PSA-RP125KA	PSA-RP140KA	PSA-RP140KA
Outdoor	Unit			PUHZ-P100VHA4	PUHZ-P100YHA2	PUHZ-P125VHA3	PUHZ-P125YHA	PUHZ-P140VHA3	PUHZ-P140YHA
Refrigera						R410		•	
Power	Source					Outdoor po	wer supply		
Supply	Outdoor (V/Phase	/Hz)			VHA	3 · VHA4:230 / Single / 50	, YHA · YHA2:400 / Three	e / 50	
Cooling	Capacity	Rated	kW	9.4	9.4	12.3	12.3	13.6	13.6
g		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	1				2.81	2.81	2.41	2.41
		EEL Rank		_	_	C	C	E	E
	Design Load	,	I kW	9.4	9.4			_	_
	Annual Electricity	Consumption*2	kWh/a	716	716	_	_	_	_
	SEER		1	4.6	4.6	_		_	_
	0	<b>Energy Efficiency Class</b>		B	В	_	_	_	_
leating	Capacity	Rated	kW	11.2	11.2	14.0	14.0	16.0	16.0
Average		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
eason)	Total Input	Rated	kW	3.280	3.280	4.980	4.980	5.690	5.690
	COP			-		2.81	2.81	2.81	2.81
COI		EEL Rank		_	_	D	D	D	D D
	Design Load		kW	8.0	8.0			-	
		at reference design temperature	kW	6.3 (-10°C)	6.3 (-10°C)	_	_	_	_
	Dooiaroa oapaorey	at bivalent temperature	kW	7.1 (–7°C)	7.1 (–7°C)	_	_	_	_
		at operation limit temperature	kW	5.0 (–15°C)	5.0 (-15°C)	_	_	_	_
	Back Up Heating (		kW	1.7	1.7	_	=	_	_
	Annual Electricity		kWh/a	2945	2945	_	_	<u> </u>	_
	SCOP	Consumption	jike en iya	3.8	3.8	_	_	_	_
	000.	<b>Energy Efficiency Class</b>		A A	A	_		_	_
neratin	g Current (max)	zinorgy zimoromoy oraco	I A	28.7	13.7	28.7	13.7	30.2	13.7
ndoor	Input	Rated	kW	0.11	0.11	0.11	0.11	0.11	0.11
Jnit	Operating Current		A	0.71	0.71	0.73	0.73	0.73	0.73
	Dimensions <panel></panel>		mm	0.71	0.71	1900 - 6		0.70	0.70
	Weight <panel></panel>	IIIAWAB	kg	46	46	1 46	46	48	48
	Air Volume [Lo-Mic	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
Jutdoor	Dimensions	H × W × D	mm		-330 (+30)	00		)-330 (+30)	
Jnit	Weight	IIIAWAB	kg	75	77	99	101	99	101
	Air Volume	Cooling	m³/min	60.0	60.0	100.0	100.0	100.0	100.0
	· Volume	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
	Country Level (SFL)	Heating	dB(A)	54	54	55	55	56	56
	Sound Level (PWL)		dB(A)	70	70	71	71	73	73
	Operating Current		A A	28.0	13.0	28.0	13.0	29.5	13.0
	Breaker Size	(IIIaA)	A	32	16	32	16	40	16
xt.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	9.52 / 15.88	9.52 / 15.88	50	9.52 / 15.88	9.52 / 15.88	50
hing	Max. Length	Out-In	m	30	30	30	30	30	30
Cuoront-	ed Operating Range	Coolina*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
Guarante [Outdoor]		Heating	°C	-15 ~ +46 -15 ~ +21	-15 ~ +46 -15 ~ +21	-15 ~ +46 -15 ~ +21	-15 ~ +40 -15 ~ +21	-15 ~ +46 -15 ~ +21	-15 ~ +46 -15 ~ +21
[Outdoor	l	пеаціпу	٦.ر	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +Z1	-15 ~ +21

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

\*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.

# MULTI SPLISSERIES







#### **SELECTION**

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





<sup>\*</sup>Refer to page 105 and page 113 for detailed information.

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

# MXZ SERIES

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



(2-port)

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



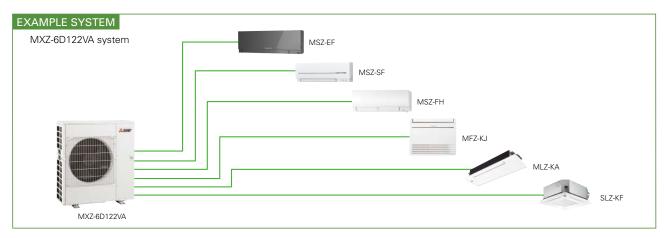
3-port 4-port MXZ-3E54VA MXZ-3E68VA MXZ-4E72VA



4-port 5-port MXZ-4E83VA MXZ-5E102VA



MXZ-6D122VA



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

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

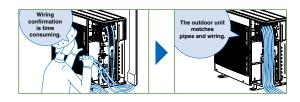
- \* Function cannot be used when the outdoor temperature is below 0°C.
- The correction process requires 10–20 minutes to complete and must be conducted with the unit set to the "Cooling" mode.

#### Ampere Limit Adjustment\*

(4E83/5E102/6D122)

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

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



#### **Operation Lock**

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















Type (Inv	erter Mult	i - Split He	at Pump)	_		Up to 2 In	door Units		Up to 3 In	door Units	Up to 4 In	door Units	Up to 5 Indoor Units
Indoor Ur	iit							F	Please refer to (*	4)			
Outdoor I	Jnit				N: MXZ-2D33VA	N: MXZ-2D42VA2	N: MXZ-2D53VA2	N: MXZ-2D53VAH2	N: MXZ-3E54VA	N: MXZ-3E68VA	N: MXZ-4E72VA	MXZ-4E83VA	MXZ-5E102VA
Refrigera	nt								R410A*1				
Power	Source							Oı	itdoor power sup	ply			
Supply	Outdoor	(V/Phase/H	iz)						230 / Single / 50	1			
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 (Indo	or+Outdoor)	Rated	kW	0.90	1.00	1.54	1.54	1.35	2.19	2.25	2.44	3.15
	Design Lo	oad		kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2	8.3	10.2
			onsumption*2	kWh/a	211	216	262	262	295	425	443	460	537
	SEER*4				5.5	6.8	7.1	7.1	6.4	5.6	5.7	6.3	6.6
			Energy Efficiency (	:lass*4	A	A++	A++	A++	A++	A+	A+	A++	A++
leating	Capacity		Rated	kW	4.0	4.5	6.4	6.4	7.0	8.6	8.6	9.3	10.5
Average			Min - Max	kW	1.0 - 4.1	1.0 - 4.8	1.0 - 7.0	1.0 - 7.0	2.6 - 9.0	2.6 - 10.6	3.4 - 10.7	3.4 - 11.6	4.1 - 14.0
Season)	Input (Indo	or+Outdoor)		kW	0.96	0.93	1.70	1.70	1.59	2.38	2.28	2.00	2.34
	Design Lo		Inateu	kW	2.7	3.2	4.5	4.5	5.0	6.8	7.0	8.7	8.9
			design temperature	kW	2.1	2.7	3.7	3.6	4.0	5.4	5.6	7.1	7.3
	Capacity	at bivalent t		kW	2.4	3.0	4.0	4.0	4.49	6.0	6.2	7.1	7.9
			limit temperature	kW	1.7	2.3	3.3	3.0	3.17	4.4	4.7	6.0	6.3
	Pook Ha I	Heating Ca	<u>'</u>	kW	0.6	0.5	0.8	0.9	1.0	1.4	1.4	1.6	1.6
			onsumption*2	kWh/a	926	1065	1507	1546	1751	2466	2516	2884	2958
	SCOP*4	lectricity Co	onsumption	KVVII/d	4.1	4.2	4.2	4.1	4.0	3.9	3.9	4.2	4.2
	SCOP		Energy Efficiency (	Noo*4	4.1 A+	4.2 A+	4.2 A+	4.1 A+	4.0 A+	3.9 A	3.9 A	4.2 A+	4.2 A+
Any On	roting Cu	rrant (Inda	or+Outdoor)	A	10.0	12.2	12.2	12.2	18.0	18.0	18.0	21.4	21.4
	Dimensio		H × W × D	-	10.0		9) - 285 (+59.5)	12.2		840(+30) - 330		796 - 9	
Juituooi Jnit	Weight	115	lu x M x D	mm	00			00	58				
	Air Volum		Caslina	kg	32	37 27.7	37	38		58	59	62	63
	Air volun	ie	Cooling	m³/min	32.9		32.9	32.9	42.1	42.1	42.1	55.6	65.1
	0	L (ODL)	Heating	m³/min	33.7	33.3	33.3	33.3	43.0	43.0	43.0	55.6	68.0
	Sound Le	vei (SPL)	Cooling	dB(A)	49	46	50	50	50	50	50	49	52
			Heating	dB(A)	50	51	53	53	53	53	53	51	56
		vel (PWL)	Cooling	dB(A)	63	60	64	64	64	64	64	61	65
	Breaker S		I	Α	10	15	15	15	25	25	25	25	25
Ext. Piping	Diameter		Liquid	mm	6.35 × 2	6.35 × 2	6.35 × 2	6.35 × 2	6.35 x 3	6.35 x 3	6.35 x 4	6.35 × 4	6.35 × 5
iping			Gas	mm	9.52 × 2	9.52 × 2	9.52 × 2	9.52 × 2	9.52 x 3	9.52 x 3			12.7×1+9.52×4
		ng Length	-	m	20	30	30	30	50	60	60	70	80
			oing Length (max)	m	15	20	20	20	25	25	25	25	25
	Max. Heig	•		m	10	15 (10)*3	15 (10)* <sup>3</sup>	15 (10)* <sup>3</sup>	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)* <sup>3</sup>	15 (10)*3
	Chargeles			m	20	20	20	20	40	40	40	25	0
	ed Operatin	g Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
[Outdoor]			Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

N: Please refer to the NOTE below.

Type (Inv	erter Multi - Split He	at Pump)		Up to 6 Indoor Units
Indoor Ur	it			Please refer to (*5)
Outdoor l	Jnit			MXZ-6D122VA
Refrigera	nt			R410A*1
Power	Source			Outdoor power supply
Supply	Outdoor (V/Phase/F	lz)		230 / Single / 50
Cooling	Capacity	Rated	kW	12.2
		Min - Max	kW	3.5 - 13.5
	Input*5	Rated	kW	3.66
	EER*6			3.33
		EEL Rank		A
Heating	Capacity	Rated	kW	14.0
		Min - Max	kW	3.5 - 16.5
	Input*5	Rated	kW	3.31
	COP*6			4.23
		EEL Rank		A
0	erating Current (max)*5			
Operatin	g Current (max)*°		Α	26.8
Outdoor	Dimensions	$H \times W \times D$	A mm	26.8 1048 - 950 - 330
_	-	$H \times W \times D$		
Outdoor	Dimensions	H × W × D	mm	1048-950-330
Outdoor	Dimensions Weight		mm kg	1048 - 950 - 330 88
Outdoor	Dimensions Weight	Cooling	mm kg m³/min	1048-950-330 88 63.0
Outdoor	Dimensions Weight Air Volume	Cooling Heating	mm kg m³/min m³/min	1048-950-330 88 63.0 77.0
Outdoor	Dimensions Weight Air Volume	Cooling Heating Cooling	mm kg m³/min m³/min dB(A)	1048-950-330 88 63.0 77.0 55
Outdoor	Dimensions Weight Air Volume Sound Level (SPL)	Cooling Heating Cooling Heating	mm kg m³/min m³/min dB(A) dB(A)	1048-950-330 88 63.0 77.0 55 57
Outdoor Unit	Dimensions Weight Air Volume Sound Level (SPL) Sound Level (PWL)	Cooling Heating Cooling Heating	mm kg m³/min m³/min dB(A) dB(A)	1048-950-330 88 63.0 77.0 55 57 69
Outdoor Unit	Dimensions Weight Air Volume Sound Level (SPL) Sound Level (PWL) Breaker Size	Cooling Heating Cooling Heating Cooling	mm kg m³/min m³/min dB(A) dB(A) dB(A)	1048-950-330 88 63.0 77.0 55 57 69 32
Outdoor Unit	Dimensions Weight Air Volume Sound Level (SPL) Sound Level (PWL) Breaker Size	Cooling Heating Cooling Heating Cooling Liquid Gas	mm kg m³/min m³/min dB(A) dB(A) dB(A)	1048 - 950 - 330 88 63.0 77.0 55 57 69 32 6.35×6
Outdoor Unit	Dimensions Weight Air Volume Sound Level (SPL) Sound Level (PWL) Breaker Size Diameter	Cooling Heating Cooling Heating Cooling Cooling Liquid Gas (max)	mm kg m³/min dB(A) dB(A) dB(A) A mm	1048-950-330 88 63.0 77.0 55 57 69 32 6.35×6 12.7×1+9.52×5 80 25
Outdoor Unit	Dimensions Weight Air Volume Sound Level (SPL) Sound Level (PWL) Breaker Size Diameter Total Piping Length	Cooling Heating Cooling Heating Cooling Cooling Liquid Gas (max)	mm kg m³/min m³/min dB(A) dB(A) dB(A) mm mm mm	1048-950-330 88 63.0 77.0 55 57 69 32 6.35×6 12.7×1+9.52×5 80
Outdoor Unit	Dimensions Weight Air Volume Sound Level (SPL) Sound Level (PWL) Breaker Size Diameter Total Piping Length Each Indoor Unit Piping	Cooling Heating Cooling Heating Cooling Cooling Liquid Gas (max)	mm kg m³/min m³/min dB(A) dB(A) A mm mm m m	1048-950-330 88 63.0 77.0 55 57 69 32 6.35×6 12.7×1+9.52×5 80 25
Outdoor Unit Ext. Piping	Dimensions Weight Air Volume Sound Level (SPL) Sound Level (PWL) Breaker Size Diameter Total Piping Length Each Indoor Unit Piping Max. Height Chargeless Length dd Operating Range	Cooling Heating Cooling Heating Cooling Cooling Liquid Gas (max)	mm kg m³/min dB(A) dB(A) dB(A) mm mm mm	1048-950-330 88 63.0 77.0 55 57 69 32 6.35×6 12.7×1+9.52×5 80 25 15 (10)*3

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-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2

No. of	Pipe le	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

IVIAZ-3E34VA			
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+{(L-40)m×20a/m)}	3200a

#### MXZ-3E68VA MXZ-4E72VA

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

## MXZ-DM SERIES

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





#### Stylish Design with Flat Panel Front

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



#### Easy to create various combinations

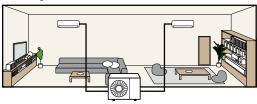
Wide range of simple combinations only possible using multi-port outdoor units.

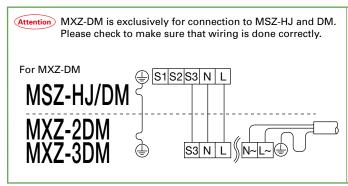


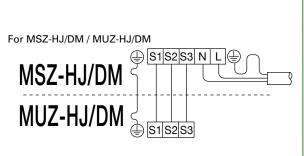




Wide living room



















Type (Inv	erter Multi - Split Hea	at Pump)		Up to 2 Indoor Units	Up to 3 Indoor Units		
Indoor Un	it			Please re	fer to (*4)		
Outdoor U	Jnit			MXZ-2DM40VA	MXZ-3DM50VA		
Refrigerar	nt			R41	0A*1		
Power	Source			Outdoor po	ower supply		
Supply	Outdoor (V/Phase/H	łz)		230 / Sii			
Cooling	Capacity	Rated	kW	4.0	5.0		
	Input*4	Rated	kW	1.05	1.13		
	EER*4	'		3.81	4.42		
		EEL Rank*4		А	A		
	Design Load	'	kW	4.0	5.0		
	Annual Electricity	Consumption*2	kWh/a	226	283		
	SEER*4			6.1	6.1		
		Energy Efficiency C	Class*4	A++	A++		
Heating	Capacity	Rated	kW	4.3	6.0		
(Average	Input	Rated	kW	1.16	1.31		
Season)	COP*4			3.71	4.58		
		EEL Rank*4		А	A		
	Design Load	'	kW	3.2	4.0		
	Declared at referen	ice design temperature	kW	2.73	3.34		
	Capacity at bivalent temperature		kW	3.01	3.73		
	at operation limit temperature		kW	2.27	2.70		
	Back Up Heating Capacity		kW	0.47	0.66		
	Annual Electricity	Consumption*2	kWh/a	1105	1455		
	SCOP*4			4.0	3.8		
		Energy Efficiency C	Class*4	A <sup>+</sup>	A		
Operating	g Current (max)		Α	12.2	18.0		
	Dimensions	$H \times W \times D$	mm	550 - 800 (+69) - 285 (+59.5)	710 - 840 (+30) - 330 (+66)		
Unit	Weight	•	kg	32	57		
	Air Volume	Cooling	m³/min	29.2	37.5		
		Heating	m³/min	31.9	39.6		
	Sound Level (SPL)	Cooling	dB(A)	48	50		
		Heating	dB(A)	52	53		
	Sound Level (PWL)	Cooling	dB(A)	63	64		
	Operating Current	Cooling	Α	5.1	5.0		
		Heating	Α	5.6	5.8		
	Breaker Size		Α	15	25		
Ext.	Port Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35 × 3 / 9.52 × 3		
Piping	Total Piping Length	(max)	m	30	50		
	Each Indoor Unit Pip	oing Length (max)	m	20	25		
	Max. Height		m	15 (10)* <sup>3</sup>	15 (10)* <sup>3</sup>		
	Chargeless Length		m	20	40		
	ed Operating Range	Cooling	°C	-10 <sup>~</sup>	+46		
[Outdoor]		Heating	°C	-15 <i>~</i>	+24		

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

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

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

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

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

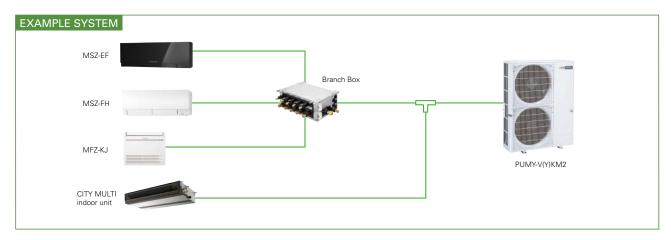
MXZ-3DM50VA MSZ-DM25VA + MSZ-DM25VA + MSZ-DM25VA

# **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.



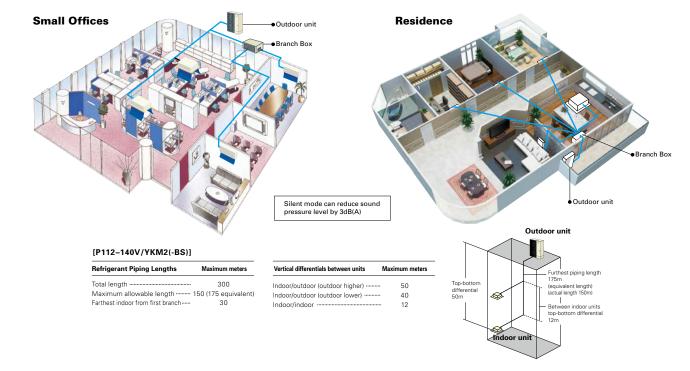
PUMY-P112/125/140VKM2(-BS) PUMY-P112/125/140YKM2(-BS)



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

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

















Model			PUMY-P112VKM2(-BS)	PUMY-P125VKM2(-BS)	PUMY-P140VKM2(-BS)	PUMY-P112YKM2(-BS)	PUMY-P125YKM2(-BS)	PUMY-P140YKM2(-BS
Power Source			1	-phase 220 - 240V 50H	z	3	3-phase 380 - 415V 50h	łz
Cooling Capacity	*1	kW	12.5	14.0	15.5	12.5	14.0	15.5
(nominal)	Power Input	kW	2.79	3.46	4.52	2.79	3.46	4.52
	Current Input	A	12.87 - 12.32 - 11.80	15.97 - 15.27 - 14.64	20.86 - 19.95 - 19.12	4.46 - 4.24 - 4.09	5.53 - 5.26 - 5.07	7.23 - 6.87 - 6.62
	EER	kW/kW	4.48	4.05	3.43	4.48	4.05	3.43
Temp. Range of Cooling*5	Indoor Temp.	W.B.	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C
	Outdoor Temp.	D.B.	-5.0 - 46°C	-5.0 - 46°C	-5.0 - 46°C	-5.0 - 46°C	-5.0 - 46°C	-5.0 - 46°C
Heating Capacity	*2	kW	14.0	16.0	18.0	14.0	16.0	18.0
(nominal)	Power Input	kW	3.04	3.74	4.47	3.04	3.74	4.47
	Current Input	A	14.03 - 13.42 - 12.86	17.26 - 16.51 - 15.82	20.63 - 19.73 - 18.91	4.86 - 4.62 - 4.45	5.98 - 5.68 - 5.48	7.15 - 6.79 - 6.55
	COP	kW/kW	4.61	4.28	4.03	4.61	4.28	4.03
Temp. Range of Heating	Indoor Temp.	D.B.	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C
	Outdoor Temp.	W.B.	-20.0 - 15.0°C	-20.0 - 15.0°C	-20.0 - 15.0°C	-20.0 - 15.0°C	-20.0 - 15.0°C	-20.0 - 15.0°C
Indoor Unit Connectable	Total Capacity				50 to 130% of out	door unit capacity		
	Model / Quantity	City Multi	15 - 140/9	15 - 140/10	15 - 140/12	15 - 140/9	15 - 140/10	15 - 140/12
		Branch Box	15 - 100/8	15 - 100/8	15 - 100/8	15 - 100/8	15 - 100/8	15 - 100/8
		Mixed System	15 - 140*3/10	15 - 140*3/10*4	15 - 140*3/10*4	15 - 140*3/10	15 - 140*3/10*4	15 - 140*3/10*4
Sound Pressure Level (measured in anechoic room)	)	dB <a></a>	49 / 51	50 / 52	51 / 53	49 / 51	50 / 52	51 / 53
Refrigerant Piping Diameter	Liquid Pipe	mm			9.52	Flare		
	Gas Pipe	mm			15.88	Flare		
Fan	Type x Quantity				Propeller	Fan × 2		
	Air Flow Rate	m³/min			11	0		
		L/s			1,8	83		
		cfm			3,8	84		
	Motor Output	kW			0.06 +	- 0.06		
Compressor	Type x Quantity				Scroll hermetic	compressor × 1		
	Starting Method				Inve	rter		
	Motor Output	kW	2.9	3.5	3.9	2.9	3.5	3.9
External Dimensions (H × W ×	D)	mm			1,338×1,050	0×330 (+25)		
Weight		kg		122			125	

#### \*1,\*2 Nominal conditions

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

<sup>\*3</sup> 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					Brand	h Box			
Model Nam	е			PAC-MK51BC	PAC-MK31BC	PAC-MK51BCB	PAC-MK31BCB		
Connectabl	e Number of Indo	of Indoor Units         Max. 5         Max. 3         Max. 5         Max. 3					Max. 3		
Power	Source				Outdoor power supply, Branch Bo	x / Outdoor separate power supply			
Supply Outdoor (V/Phase/Hz)					Single phase, 220/230/240V, 5	0Hz, Single phase, 220V, 60Hz			
Total Input	•		kW	0.003					
Operating (	Current		Α		0.05				
Dimensions	1	$H \times W \times D$	mm		170 - 4	50 - 280			
Weight			kg	7.4	6.7	7.0	6.5		
Piping	Branch Liquid		mm	6.35 × 5	6.35 × 3	6.35 × 5	6.35 × 3		
[diameter]	[Indoor Side]	Gas	mm	9.52 × 4, 12.7 × 1	9.52 × 3	9.52 × 4, 12.7 × 1	9.52 × 3		
	Main	Liquid	mm	9.52					
	[Outdoor Side]	Gas	mm		15	.88			
	Connection Met	hod		FI	lared	Braz	red		
Wiring	to Indoor Unit			3-wire + Earth wire					
	to Outdoor Unit				3-wire + 1	Earth wire			

#### Indoor Unit Compatibility Table

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

		Outdoor Unit					**	- 44		pump type			1 **		
Indoor Unit			MXZ- *4 2D33VA	MXZ- *4 2D42VA2	MXZ- *4 2D53VA(H)2	MXZ- *4 2E53VAHZ	MXZ- *4 2DM40VA	MXZ- *4 3E54VA	MXZ- *4 3E68VA	MXZ- *4 3DM50VA	MXZ- *4 4E72VA	MXZ- *4 4E83VA	MXZ- *4 4E83VAHZ	MXZ- *4 5E102VA	MXZ- 6D122V
M series	Wall-	MSZ-FH25VE2	•	•	•	•			•		•	•	•	•	•
	Mounted	MSZ-FH35VE2		•	•	•		•	•		•	•	•	•	•
		MSZ-FH50VE2							•				•	•	•
		MSZ-EF18VE3W/B/S	•	•	•	•		•	•		•	•	•	•	•
		MSZ-EF22VE3W/B/S			•	•			•				•	•	•
		MSZ-EF25VE3W/B/S	•	•	•	•		•	•		•	•	•	•	•
		MSZ-EF35VE3W/B/S		•	•	•			•				•	•	
		MSZ-EF42VE3W/B/S			•	•		•	•		•	•	•	•	•
		MSZ-EF50VE3W/B/S			•	•			•				•	•	
		MSZ-SF15VA	•	•	•	•		•	•		•	•	•	•	•
		MSZ-SF20VA	•	•	•	•			•		•		•	•	
		MSZ-SF25VE3	•	•	•	•		•	•		•	•	•	•	•
		MSZ-SF35VE3				•		•			•				
		MSZ-SF42VE3			•	•		•	•		•	•	•	•	•
		MSZ-SF50VE3			•	•		•	•		•	•	•	•	•
		MSZ-GF60VE2							*2		*2	*2	*2	*2	*2
		MSZ-GF71VE2										*2	*2	*2	*2
		MSZ-DM25VA					•			•					
		MSZ-DM35VA					•			•					
		MSZ-HJ25VA					•			•					
		MSZ-HJ35VA					•			•					
		MSZ-HJ50VA								•					
	Floor-	MFZ-KJ25VE	*5*6	*5	*5	•		*5	*5		•		•	•	
	Standing	MFZ-KJ35VE		*5	*5	•		*5	*5		•	•	•	•	•
		MFZ-KJ50VE						*5	*5			•	•	•	
	1-way	MLZ-KA25VA	•	•	•	•		•	•		•	•	•	•	•
	Cassette	MLZ-KA35VA											•		
		MLZ-KA50VA						•	•		•	•	•	•	•
S series	4 2404	SLZ-KF25VA2	•	•	•	•		•	•		•	•	•	•	•
5 series	4-way Cassette	SLZ-KF35VA2		•	•	•		•	•		•	•	•	•	•
		SLZ-KF50VA2		•	•	•		•	•		•	•	•	•	•
		SLZ-KF60VA2													
	Ceiling-	SEZ-KD25VAQ*3	•	•	•	•		•	•		•	•	•	•	•
	Concealed	SEZ-KD25VAQ S													
			•	•	•	•		•	•		•	•	•	•	•
		SEZ-KD35VAQ		•	•	•		•	•		•	•	•	•	•
		SEZ-KD35VAL		•	•	•		•	•		•	•	•	•	•
		SEZ-KD50VAQ						•	•		•	•	•	•	•
		SEZ-KD50VAL						•	•		•	•	•	•	•
		SEZ-KD60VAQ							•		•	•	•	•	•
		SEZ-KD60VAL							•		•	•	•	•	•
		SEZ-KD71VAQ										•	•	•	•
		SEZ-KD71VAL										•	0	•	•
P series	4-way Cassette	PLA-RP50BA							•		•	•	•*7	•	•
		PLA-RP60BA							•		•	•	*7	•	•
		PLA-RP71BA										•	*7	•	•
	Ceiling- Suspended	PCA-RP50KAQ						•	•		•	•	*7	•	•
		PCA-RP60KAQ							•		•		*7	•	
		PCA-RP71KAQ										•	•*7	•	•
	Ceiling- Concealed	PEAD-RP50JAQ						<b>●</b> *1	<b>●</b> *1		<b>●</b> *1	<b>●</b> *1	<b>*1*7</b>	<b>●</b> *1	<b>•</b> *1
	Concealed	PEAD-RP50JALQ						<b>●</b> *1	<b>●</b> *1		<b>●*1</b>	<b>●</b> *1	*1*7	<b>●</b> *1	<b>•</b> *1
		PEAD-RP60JAQ										<b>●</b> *1	*1*7		<b>*</b> 1
		PEAD-RP60JALQ										●*1		<b>●</b> *1	<b>●</b> *1
		PEAD-RP71JAQ										●*1	*1*7	<b>●</b> *1	<b>•</b> *1
		PEAD-RP71JALQ										*1	●*1*7		*1

<sup>1</sup> 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(E)/3E/4E/5E 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 92.

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

7 P series cannot be connected with MXZ-4E83VAHZ when ampere limit adjustment function is operated.

#### Conditions for specifications

Temperature conditions are based on JIS B8616.

Cooling	Indoor	27°C DB, 19°C WB
coomig	Outdoor	35°C DB, 24°C WB
Heating	Indoor	20°C DB
Heating	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

.,	- C - C - C - C - C - C - C - C - C - C
М	M: M Series S: S Series
s	"S"= Wall-mounted , "F"= Compact floor-standing , "E"= Compact ceiling-concealed ,
<u> </u>	"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 ,
ПД	"S"= Silver indoor unit , "W"= White indoor unit , "B"= Black indoor unit

#### 2) P Series

Р	P Series
U	"K"= Wall-mounted , "S"= Floor-standing , "L"= 4-way cassette , "E"= Ceiling-concealed , "C"= Ceiling-suspended , "U"= Outdoor unit
Н	"H"= For heating and cooling , "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

М	M Series				
X	Multi-system outdoor unit (heat pump)				
Z	Inverter heat pump				
4	Maximum number of connectable indoor units				
D/E/HJ	Generation / Type				
72	Rated cooling capacity (kW base)				
V	"V"= 230V / Single phase / 50Hz				
A	"A"= R410A with new A control				
HZ	"HZ"= Hyper Heating model , "H"= Anti-freeze heater equipped model				

# POWERFUL HEATING





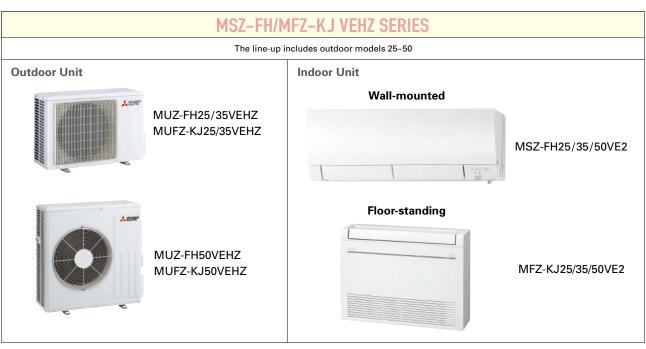


#### **SELECTION**

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.

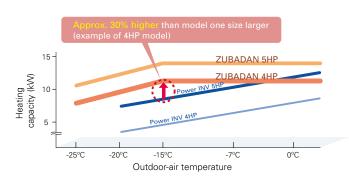


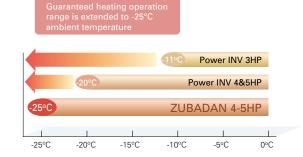
\* Units in photo are Japanese models.

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.

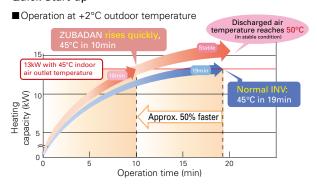




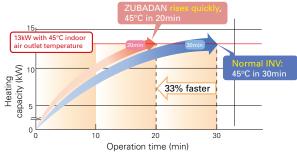
#### **Enhanced Comfort**

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.

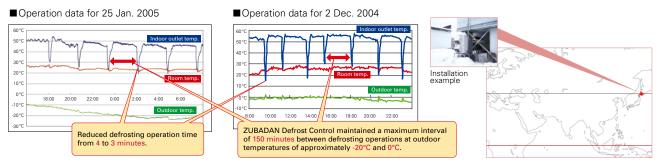
#### Quick Start-up







ZUBADAN Defrost Control and Faster Recovery from Defrost Operation Field Test Results: Office building in Asahikawa, Hokkaido, Japan



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



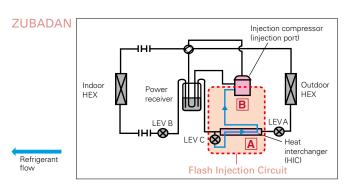
Powerful heating yet annually high energy efficiency in both cooling and heating, achieving rank A and A+.

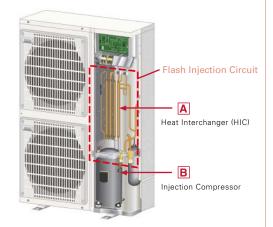


\* For products with capacity over 12.0kW, SEER/SCOP values are measured based on EN14825. These values are for reference purposes only.

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

#### ■Flash Injection Circuit





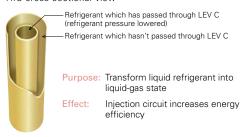
The ZUBADAN Series is equipped with Mitsubishi Electric's original Flash Injection Circuit, which is comprised of a bypass circuit and heat interchanger (HIC). The HIC transforms rerouted liquid refrigerant into a gas-liquid state to lower compression load. This process ensures excellent heating performance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

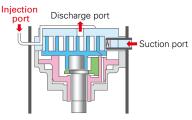
#### A Heat Interchanger (HIC)

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

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

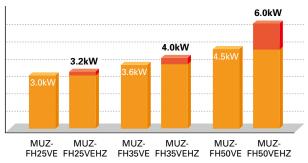
Unlike conventional air conditioning systems, the FH Series doesn't lose heating capacity when it's cold outside. Original technologies ensure excellent heating performance under extremely low outdoor temperatures and an impressive guaranteed operating range.



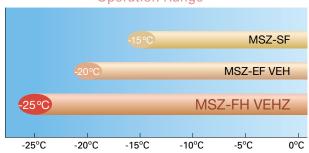
#### **Unparalleled Heating Performance**

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.

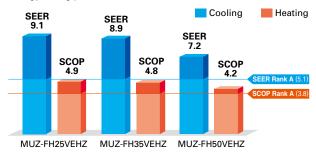




#### High Energy Efficiency – Energy Rank of A<sup>+</sup> or higher for All Models



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



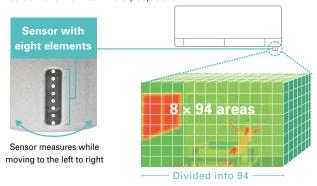
#### Freeze-prevention Heater Equipped as Standard

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



#### 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**

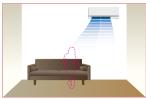
This setting can be used to directly target airflow at people such as for immediate comfort when coming indoors on a hot



#### **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.

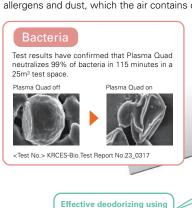




The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60 minutes

#### Plasma Quad

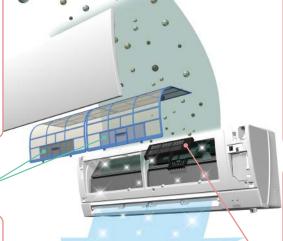
Air, like water, is something we use everyday unconsciously. Yet, clean, fresh air is a vital part of creating a healthy space for humans. Achieving this healthy air is Plasma Quad, a plasma-based filter system that effectively removes four kinds of air pollutants; namely, bacteria, viruses, allergens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





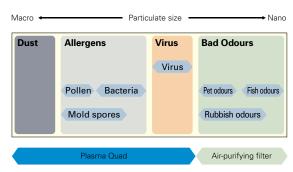
\* Hepatic cells turn transparent when affected by a virus <Test No.> vrc.center, SMC No.23-002

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



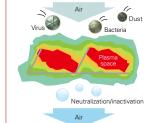
#### [ Effective Range ]

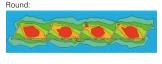


#### Principle of Plasma Quad

(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



# MXZ-VAHZ SERIES

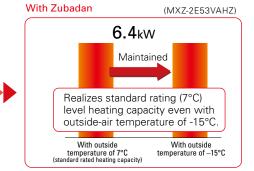
New hyper-heating MXZ allows you to create an oasis of comfort throughout your home and office in the rooms you use most, any time of the year.



#### Standard rated heating capacity is maintained even when the outside-air temperature drops to -15°C.

Maintains high capacity output even when outside-air temperature is low.

(MXZ-2D53VA2) 6.4kW Our conventional model was not able to maintain standard Falls 3.0kW rated heating capacity, making it hard to provide Capacity decreased due to warming in case of low outdoor-air temperature low outside-air temperatures. With outside temperature of –15°C With outside temperature of 7°C (standard rated heating capacity)



#### Can operate at outside-air temperature of -25°C

- 1. Incorporated key parts resistant to cold of up to -25°C after rigorous selection.
- 2. Printed circuit board-core of the air conditioner—is coated on both sides to protect it in harsh environments.

#### Freeze-prevention heater standard equipment

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



#### Continuous heating for long periods

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

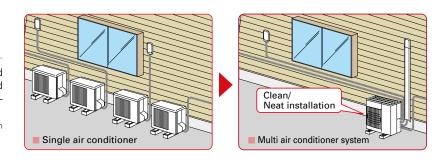


<sup>\*1:</sup> Conventional model performs continuous heating approximately 30min up to a maximum of 90min.

#### One outdoor unit supports multiple indoor units.

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

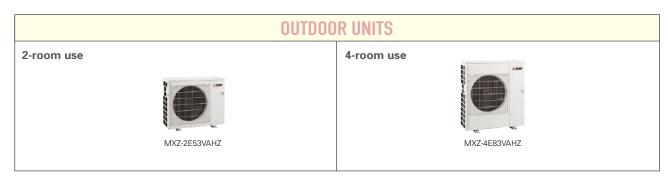
\*Please note that cooling and heating modes cannot be run simultaneously in different rooms.





#### Freedom of combinations in cold region greatly enhanced

The variety of indoor unit connection options in cold regions, restricted until now, has been greatly increased. Increased design freedom.





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























#### 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



Enclosed in PLP-6BALM/PLP-6BALME







































































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Туре					Inverter Heat Pump				
ndoor Ur	nit			PLA-ZI	PLA-ZRP125BA				
Outdoor l	Unit			PUHZ-SHW112VHA(-BS)	PUHZ-SHW112YHA(-BS)	PUHZ-SHW140YHA(-BS)			
Refrigera	nt			R410A*1					
ower	Source			Outdoor power supply					
upply	Outdoor (V/Phase/H	lz)		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	2.786	2.786	4.449			
	EER			-	-	2.81			
		EEL Rank		-	-	-			
	Design Load	•	kW	10.0	10.0	12.5			
	Annual Electricity Co	onsumption*2	kWh/a	633	633	856			
	SEER			5.5	5.5	5.1*4			
		Energy Efficiency Class		A	A	_			
eating	Capacity	Rated	kW	11.2	11.2	14.0			
verage		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0			
Season)	Total Input	Rated	kW	2.667	2.667	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	11.2	14.0			
		at bivalent temperature	kW	11.2	11.2	14.0			
		at operation limit temperature	kW	9.4	9.4	9.5			
	Back Up Heating Capacity kW		kW	1.5	1.5	1.8			
	Annual Electricity Consumption*2 kWh/a		kWh/a	4420	4420	6213			
	SCOP			4.0	4.0	3.5*4			
		Energy Efficiency Class		Α+	A+	_			
peratin	g Current (max)		Α	35.7	13.7	13.8			
door	Input	Rated	kW	0.08	0.08	0.09			
nit	Operating Current (n	nax)	Α	0.74	0.74	0.80			
	Dimensions <panel></panel>	$H \times W \times D$	mm		298-840-840 <35-950-950>				
	Weight <panel></panel>	•	kg	26 <6>	26 <6>	27 <6>			
	Air Volume [Lo-Mi2-Mi1-Hi]		m³/min	20 - 23 - 26 - 30	20 - 23 - 26 - 30	22 - 25 - 28 - 31			
	Sound Level (SPL) [Lo-Mi2-Mi1-Hi]		dB(A)	32 - 34 - 37 - 40	32 - 34 - 37 - 40	34 - 36 - 39 - 41			
	Sound Level (PWL)		dB(A)	65	65	66			
utdoor	Dimensions	$H \times W \times D$	mm		1350 - 950 - 330 (+30)				
nit	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			
	Operating Current (max)		А	35.0	13.0	13.0			
	Breaker Size A		Α	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			
	Max. Height	Out-In	m	30	30	30			
uarante	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46			
Outdoor]		Heating	°C	-25 ~ +21	-25 ~ +21	-25 ~ +21			

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of 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

























































































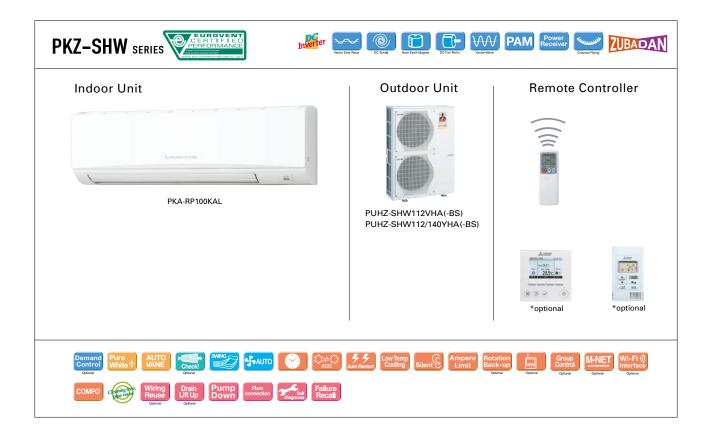






Туре					Inverter Heat Pump		
Indoor Ur	nit			PLA-RI	P100BA	PLA-RP125BA	
Outdoor I	Unit			PUHZ-SHW112VHA(-BS)	PUHZ-SHW112YHA(-BS)	PUHZ-SHW140YHA(-BS)	
Refrigera	nt			R410A*1			
Power	Source				Outdoor power supply		
Supply	Outdoor (V/Phase/H	lz)			VHA:230 / Single / 50, YHA:400 / Three / 50	1	
Cooling	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 Season)		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	
eason)	Total Input	Rated	kW	2.794	2.794	3.879	
	СОР			-	-	3.61	
		EEL Rank		-	-	-	
	Design Load		kW	12.7	12.7	15.8	
	Declared Capacity	at reference design temperature	kW	11.2	11.2	14.0	
		at bivalent temperature	kW	11.2	11.2	14.0	
		at operation limit temperature	kW	9.4	9.4	9.5	
	3 - 1		kW	1.5	1.5	1.8	
	, , , , , , , , , , , , , , , , , , , ,		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	
nit	Operating Current (max)		Α	0.94	0.94 0.94		
	Dimensions <panel></panel>	H × W × D	mm	298-840-840 <35-950-950>			
	Weight <panel></panel>		kg	25 <6>	25 <6>	25 <6>	
	Air Volume [Lo-Mi2-N	,	m³/min	20 - 23 - 26 - 30	20 - 23 - 26 - 30	22 - 25 - 28 - 31	
	Sound Level (SPL) [L	o-Mi2-Mi1-Hi]	dB(A)	32 - 34 - 37 - 40	32 - 34 - 37 - 40	34 - 36 - 39 - 41	
	Sound Level (PWL)		dB(A)	62	62	63	
	Dimensions	$H \times W \times D$	mm		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	
			Α	35.0	13.0	13.0	
	Breaker Size			40	16	16	
xt.	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	

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
\*3 Optional air protection guide is required where ambient temperature is lower than -5°C.
\*4 SEER/SCOP values are measured based on EN14825. These values are reference purpose only.



Туре				Inverter H	leat Pump
Indoor Ur	nit			PKA-RF	2100KAL
Outdoor	Unit			PUHZ-SHW112VHA(-BS)	PUHZ-SHW112YHA(-BS)
Refrigera	nt			R41	0A*1
Power	Source			Outdoor po	ower supply
Supply	Outdoor (V/Phase/H	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	•	Min - Max	kW	4.5 - 14.0	4.5 - 14.0
Season)	Total Input	Rated	kW	3.103	3.103
	Design Load		kW	12.7	12.7
	Declared Capacity	at reference design temperature	kW	11.2	11.2
		at bivalent temperature	kW	11.2	11.2
		at operation limit temperature	kW	9.4	9.4
	Back Up Heating Cap		kW	1.5	1.5
	Annual Electricity Co		kWh/a	4664	4664
	SCOP	Distription	KVVII/a	3.8	3.8
	3001	Energy Efficiency Class		A A	3.6 A
Operatio	g Current (max)	Lifergy Linciency class	A	35.6	13.6
ndoor	Input	Rated	kW	0.08	0.08
Jnit	Operating Current (r		A	0.57	0.06
	Dimensions <panel></panel>		mm		70 - 295
	Weight <panel></panel>	HXWXD	kg	21	21
	Air Volume [Lo-Mid-h	131	m³/min	20 - 23 - 26	20 - 23 - 26
	Sound Level (SPL) [L		dB(A)		
	Sound Level (SPL)	LO-IVIIQ-FIIJ	dB(A)	41 - 45 - 49 65	41 - 45 - 49
Outdoor		$H \times W \times D$		* *	65
Outaoor Unit	Dimensions Weight	LU X AA X D	mm	1350 - 950	- 330 (+30) 134
	Air Volume	Cooling	kg m³/min	120	134
	All volume		_		
	Sound Level (SPL)	Heating	m³/min dB(A)	100.0	100.0
	Sound Level (SPL)	Cooling		51	51
	0	Heating	dB(A)	52	52
	Sound Level (PWL)	Cooling	dB(A)	69	69
	Operating Current (r	max)	A	35.0	13.0
	Breaker Size	Tra	Α	40	16
Ext. Piping	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88
ping	Max. Length	Out-In	m	75	75
_	Max. Height	Out-In	m	30	30
Guarante [Outdoor]	ed Operating Range	Cooling*3	°C	−15 ~ +46	−15 ~ +46
iOnidoor.	1	Heating	°C	−25 ~ +21	−25 ~ +21

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 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 based on standard test results. Actual energy consumption based on standard test results.

# PEDZ-SHW JA SERIES



















#### Indoor Unit



PEAD-RP100/125JA(L)Q

#### **Outdoor Unit**



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

#### Remote Controller



\*optional

























































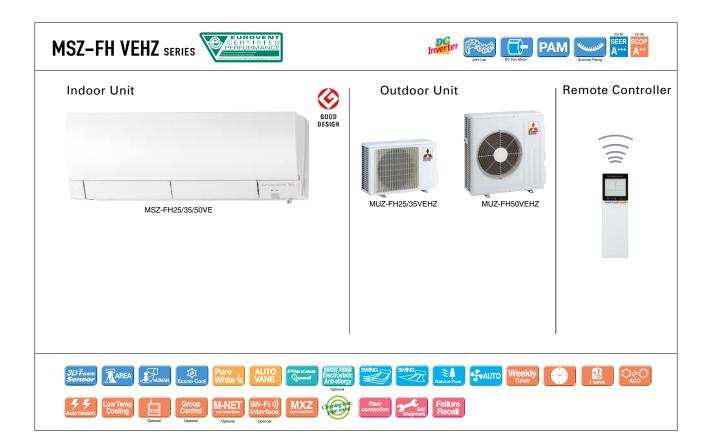






Туре				Inverter Heat Pump PEAD-RP100JA(L)Q PEAD-RP125JA								
Indoor Un	it			PEAD-RP	100JA(L)Q	PEAD-RP125JA(L)Q						
Outdoor l	Jnit			PUHZ-SHW112VHA(-BS)	PUHZ-SHW112YHA(-BS)	PUHZ-SHW140YHA(-BS)						
Refrigera	nt				R410A*1							
Power	Source				Outdoor power supply							
Supply	Outdoor (V/Phase/H	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	1		_		3.21 (3.22)						
		EEL Rank		_		_						
	Design Load		kW	10.0	10.0	12.5						
	Annual Electricity Co	nsumption*2	kWh/a	729 (714)	729 (714)	906 (892)						
	SEER	<b>p</b>		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	naca	KVV	-	-	3.61						
	001	EEL Rank		_	_	=						
	Design Load	ELE HUIK	kW	12.7	12.7	15.8						
	Declared Capacity	at reference design temperature	kW	11.2	11.2	14.0						
	Decialed Capacity	at bivalent temperature	kW	11.2	11.2	14.0						
		at operation limit temperature	kW	9.4	9.4	9.5						
	Back Up Heating Cap		kW	1.5	1.5	1.8						
	Annual Electricity Co	<u>'</u>	kWh/a	4664	4664	6072						
	SCOP	insumption	KVVII/d	3.8	3.8	3.6*4						
	SCOP	Energy Efficiency Class		3.8 A	3.8 A	-						
Operation	g Current (max)	Ellergy Elliciency Class	А	37.7	15.7	15.8						
Indoor	Input [Cooling / Heating	1 D-+1	kW		0.25 (0.23) / 0.23	0.36 (0.34) / 0.34						
Unit	Operating Current (n	-	A	0.25 (0.23) / 0.23 2.65	2.65	2.76						
	Dimensions	H × W × D	mm	2.00	2.65 250 - 1400 - 732	2.70						
	Weight	H X W X D		41 (40)	41 (40)	43 (42)						
	Air Volume [Lo-Mid-H	101	kg m³/min	24.0 - 29.0 - 34.0	24.0 - 29.0 - 34.0	29.5 - 35.5 - 42.0						
	External Static Press	<u> </u>	Pa			35 / 50 / 70 / 100 / 150						
			_	35 / 50 / 70 / 100 / 150	35 / 50 / 70 / 100 / 150							
	Sound Level (SPL) [L Sound Level (PWL)	o-iviid-mij	dB(A)	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40 65						
Outdoor	Dimensions	H × W × D	mm	61	61	65						
Unit	Weight	IH X VV X D		100	1350 - 950 - 330 (+30)	134						
		lo di di	kg m³/min	120 100.0	134	100.0						
	Air Volume	Cooling	_		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	li. iiio	Α	40	16	16						
Ext. Piping	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88						
riping	Max. Length	Out-In	m	75	75	75						
	Max. Height	Out-In	m	30	30	30						
Guarantee [Outdoor]	ed Operating Range	Cooling*3	°C	−15 ~ +46	−15 ~ +46	-15 ~ +46						
[Outdoor]		Heating	°C	−25 ~ +21	-25 ~ +21	-25 ~ +21						

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of 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							
	nit				MSZ-FH25VE	MSZ-FH35VE	MSZ-FH50VE
					MUZ-FH25VEHZ	MUZ-FH35VEHZ	5.0 244 7.2 A++ 5.0 1.9-6.0 1.380 6.0 6.0 6.0 6.0 6.0 2006 4.2 A++ 6.0 1.7-8.7 1.480 14.0 0.031 0.4  12.5 6.4-7.4-8.6-10.1-12.4 5.7-7.2-9.0-11.2-14.6 27-31-35-39-44 25-29-34-39-46 60 880-840-330 55 48.8 51.3 51 54 64 61 16 6.35/12.7 30
Refrigera	nt					R410A (*1)	
Power	Source					MUZ-FH25VEHZ MUZ-FH35VEHZ R410A (**)    Outdoor power supply   230 / Single / 50	
Supply	Outdoor (V/Phase/H	z)				230 / Single / 50	
Cooling	Design Load			kW	2.5	3.5	5.0
	Annual Electricity Co	nsumpti	on (*2)	kWh/a	96	138	244
	SEER (*4)				9.1	8.9	7.2
		Energy	Efficiency Class		A+++	A+++	A++
	Capacity	Rated		kW	2.5	3.5	5.0
		Min - Ma	ax	kW	0.8 - 3.5	0.8 - 4.0	1.9 - 6.0
	Total Input	Rated		kW	0.485	0.820	1.380
	Design Load			kW	3.2	4.0	6.0
	Declared Capacity	at refere	ence design temperature	kW	3.2	4.0	6.0
jedSON)***		at bivale	nt temperature	kW	3.2	4.0	6.0
		at opera	tion limit temperature	kW	1.7	2.6	3.8
				kW	0.0	0.0	0.0
		nsumpti	on (*2)	kWh/a	924	1173	2006
Supply Outdoo  Cooling Annual SEER **  Capacit  Total In  Heating (Average Season)**  Capacit  Annual SCOP **  Capacit  Annual SCOP **  Capacit  Total In  Operating Curren Indoor Input Unit Operatin Season  Sound in Season  Outdoor Unit  Outdoor Unit  Outdoor Unit  Sound in Sound in Season  Sou	SCOP (*4)				4.9	4.8	4.2
		Energy	Efficiency Class		A++	A++	A <sup>+</sup>
	Capacity	Rated		kW	3.2	4.0	6.0
		Min - Ma	ax	kW	1.0 - 6.3	1.0 - 6.6	1.7 - 8.7
	Total Input	Rated		kW	0.580	0.800	1.480
peratin	g Current (max)			Α	9.6	10.5	14.0
	Input		Rated	kW	0.029	0.029	0.031
Jnit	Operating Current (n	nax)		Α	0.4	0.4	0.4
	Dimensions		$H \times W \times D$	mm		305 (+17) - 925 - 234	
	Weight			kg	13.5	13.5	13.5
	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) (E	(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)	0.	Cooling	dB(A)			
	(SLo-Lo-Mid-Hi-SHi <sup>+3</sup>	")	Heating	dB(A)	20 - 24 - 29 - 36 - 44	21 - 24 - 29 - 36 - 44	25 - 29 - 34 - 39 - 46
	Sound Level (PWL)			dB(A)	58	58	60
	Dimensions		$H \times W \times D$	mm			
Jnit	Weight			kg		-	55
	Air Volume		Cooling	m³/min			48.8
			Heating	m³/min		33.6	51.3
	Sound Level (SPL)		Cooling	dB(A)		-	51
			Heating	dB(A)			
			Cooling	dB(A)		· ·	· · · · · · · · · · · · · · · · · · ·
		nax)		Α			
	Breaker Size			Α			
	Diameter		Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	<u> </u>
riping	Max. Length		Out-In	m	20	20	30
	Max. Height		Out-In	m	12	12	15
	Unit Int Source Outdoor (V/Phase/Hz) Design Load Annual Electricity Consumption SEER 1+41  Energy Efft Capacity Rated Min - Max Total Input Rated Declared Capacity at reference at bivalent if at operating Back Up Heating Capacity Annual Electricity Consumption SCOP 1+41  Capacity Rated Min - Max Total Input R	Cooling	°C	−10 ~ +46	−10 ~ +46	−10 ~ +46	
[Outdoor]			Heating	°C	−25 ~ +24	-25 ~ +24	-25 ~ +24

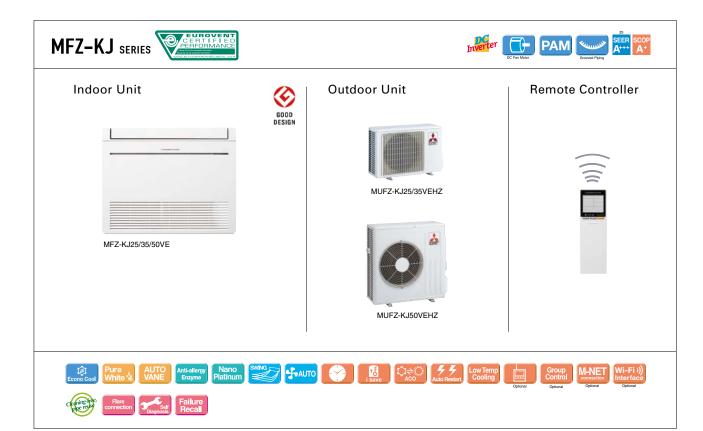
<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant recruit 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			
utdoor	Unit				MUFZ-KJ25VEHZ	MUFZ-KJ35VEHZ	MUFZ-KJ50VEHZ			
efrigera	nt					R410A (*1)				
ower	Source					Outdoor power supply				
upply	Outdoor (V/Phase/F	lz)				230 / Single / 50				
ooling	Design Load			kW	2.5	3.5	5.0			
door Unit utdoor Unit efrigerant.  Sefigerant.  Ca eating Description Descript	Annual Electricity Co	onsumpti	on (*2)	kWh/a	102	150	266			
	SEER (*4)				8.5	8.1	6.5			
		Energy	Efficiency Class		A+++	A++	A++			
Supply Outcooling Des Ann SEE	Capacity	Rated		kW	2.5	3.5	5.0			
		Min - Ma	3X	kW	0.5 - 3.4	0.5 - 3.7	1.6 - 5.7			
	Total Input	Rated		kW	0.540	0.940	1.410			
eating	Design Load			kW	3.5	3.6	4.5			
verage	Declared Capacity	at refere	nce design temperature	kW	3.5	3.6	4.5			
B		at bivale	nt temperature	kW	3.5	3.6	4.5			
		at opera	tion limit temperature	kW	1.6	2.3	3.3			
	Back Up Heating Ca			kW	0.0	0.0	0.0			
S	Annual Electricity Co	nsumpti	on (*2)	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 - M	ЭX	kW	1.2 - 5.1	1.2 - 5.8	2.2 - 8.4			
	Total Input	Rated		kW	0.770	1.100	1.610			
peratin	g Current (max)			Α	4.42	3.91	3.73			
perating Curr	Input		Rated	kW	0.016	0.016	0.038			
nit	Operating Current (r	nax)	•	А	0.17	0.17	0.34			
	Dimensions		H × W × D	mm		600 - 750 - 215	•			
	Weight			kg	15	15	15			
	Air Volume		Cooling	m³/min	3.9 - 4.9 - 5.9 - 7.1 - 8.2	3.9 - 4.9 - 5.9 - 7.1 - 8.2	5.6 - 6.7 - 8.0 - 9.3 - 10.6			
	(SLo-Lo-Mid-Hi-SHi (*3) (	Dry/Wet))	Heating	m³/min	3.9 - 5.1 - 6.2 - 7.7 - 9.7	3.9 - 5.1 - 6.2 - 7.7 - 9.7	6.0 - 7.4 - 9.4 - 11.6 - 14.0			
	Sound Level (SPL)		Cooling	dB(A)	20 - 25 - 30 - 35 - 39	20 - 25 - 30 - 35 - 39	27 - 31 - 35 - 39 - 44			
	(SLo-Lo-Mid-Hi-SHi **	3))	Heating	dB(A)	19 - 25 - 30 - 35 - 41	19 - 25 - 30 - 35 - 41	29 - 35 - 40 - 45 - 50			
	Sound Level (PWL)			dB(A)	49	50	56			
	Dimensions		$H \times W \times D$	mm	550 - 80		880 - 840 - 330			
nit	Weight			kg	37	37	55			
	Air Volume		Cooling	m³/min	31.3	31.3	45.8			
			Heating	m³/min	33.6	33.6	45.8			
	Sound Level (SPL)		Cooling	dB(A)	46	47	49			
			Heating	dB(A)	51	51	51			
	Sound Level (PWL)		Cooling	dB(A)	59	60	63			
	Operating Current (r	nax)		А	9.2	10	13.6			
	Breaker Size			А	10	12	16			
ĸt.	Diameter		Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7			
iping	Max. Length		Out-In	m	20	20	30			
	Max. Height		Out-In	m	12	12	15			
uarante	ed Operating Range		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46			
Outdoor			Heating	°C	-25 ~ +24	-25 ~ +24				

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

(\*2) Energy consumption based on standard test results. Actual energy consumption 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".

## MXZ-VAHZ SERIES













#### **Outdoor Unit**



MXZ-2E53VAHZ



MXZ-4E83VAHZ

Туре				Inverter H	Heat Pump	
Indoor Un	nit				efer to*4 *5	
Outdoor l	Jnit			MXZ-2E53VAHZ	MXZ-4E83VAHZ	
Refrigera				***	0A*1	
Power	Source				ower supply	
Supply	Outdoor (V/Phase/H	z)			ingle / 50	
Cooling	Capacity	Rated	kW	5.3	8.3	
_	' '	Min - Max	kW	1.1 - 6.0	3.5 - 9.2	
	Total Input	Rated	kW	1.29	2.25	
	Design Load	1	kW	5.3	8.3	
	Annual Electricity Co	nsumption*2	kWh/a	282	447	
	SEER*4	·		6.5	6.5	
		Energy Efficiency Class*4		A++	A++	
Heating	Capacity	Rated (7°C)	kW	6.4	9.0	
Average		Rated (-7°C)	kW	6.4	9.0	
Season)		Rated (-15°C)	kW	6.4	9.0	
(Average Season) Tot De:		Min - Max	kW	1.0 - 7.0	3.5 - 11.6	
	Total Input	Rated	kW	1.36	1.90	
1	Design Load		kW	6.4	10.1	
	Declared Capacity	at reference design temperature	kW	6.4	9.0	
		at bivalent temperature	kW	6.4	9.0	
		at operation limit temperature	kW	2.4	2.5	
	Back Up Heating Cap		kW	0.0	1.1	
	Annual Electricity Co		kWh/a	2165	3446	
	SCOP		KVVIII	4.1	4.1	
		Energy Efficiency Class*4		A+	A+	
/lax. Ope	erating Current (Indoo		Α	15.6	28.0	
	Dimensions	H×W×D	mm	796 × 950 × 330	1048 × 950 × 330	
Jnit	Weight	1	kg	61	87	
	Air Volume	Cooling	m³/min	47.0	63.0	
		Heating	m³/min	47.0	77.0	
	Sound Level (SPL)	Cooling	dB(A)	45	53	
		Heating	dB(A)	47	57	
	Sound Level (PWL)	Cooling	dB(A)	55	66	
	Breaker Size	19	A	16	30	
xt.	Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35× 4 / 12.7 × 1+9.52× 3	
iping	Total Piping Length (	The state of the s	m	30	70	
	Each Indoor Unit Pip		m	20	25	
	Max. Height	g =ogui (iiiuA)	m	15 (10) * <sup>3</sup>	15 (10) * <sup>3</sup>	
	Chargeless Length		m	20	25	
		T-	°C -10 ~ +46 -10 ~ +46			
Juarante	ed Operating Range	Cooling	l °C			

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

\*2 Energy consumption based on standard test results.

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

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

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

MXZ-2ES3WAHZ MSZ-EF18VE + MSZ-EF3VE

MXZ-4E83WAHZ MSZ-EF18VE + MSZ-EF3VE + MSZ-EF25VE

\*5 Indoor unit compatibility table is shown on page 93.

To ensure full capacity in cold and snowy regions...

# 3 Important Points to Remember When Installing the Outdoor Unit



\*RAC/PAC (inc. Air to Water) /MXZ

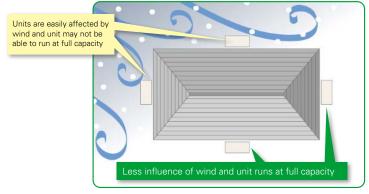
Wind and snow can significantly reduce capacity.

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



#### Installation Location

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

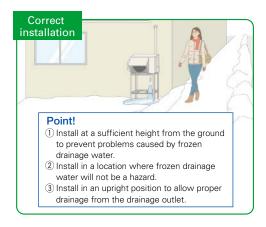


2

#### Measures for Drainage of Water

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

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

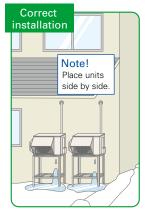


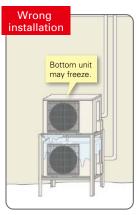




#### Case 2: Multiple units are installed

Do not install units on top of one another as it may cause frozen drainage water on the bottom unit.





#### Unit is installed on the ground

To avoid the adverse effects of snow and frozen drainage water, install the unit on a stand to ensure a sufficient height from the ground.

[RAC/PAC/MXZ]



#### Point!

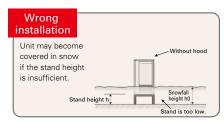
- ①Install at a position/height to prevent the unit being buried in snow\*1 and the adverse effects of frozen drainage water.\*2
- ②Install so as to avoid the effects of snow or snowdrift.
- 3 Install so as to avoid the damage from falling snow or icicles.
  - \*1 Install at a height above the highest snowfall depth.
    \*2 Even for correct installations, dripping drainage water may form an icicle which needs to be cleared away regularly to prevent a blocked drainage outlet.





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

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



# Install snow protection hood as necessary

[RAC/PAC/MXZ]



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

	Snowy region	Cold region	
	Countermeasures for snow	Countermeasures for freezing	Remarks
Drain socket, Centralised drain pan	Not used	Not used	Prevents freezing
Stand	Needed	Needed	[RAC/PAC/MXZ]  1. Install so as to prevent the unit being buried in snow (at a height greater than the highest snowfall depth). Be sure that the stand does not obstruct drainage.  2. Install so as to prevent damage to the unit due to frozen drainage water (icicles).
Snow protection hood	Needed *When the installation position is subject to snowfall.	_	Prevents heat exchanger from being covered in snow.     Prevents snow accumulating inside the air duct.
Base heater	_	Needed	[RAC/PAC/MXZ] Outdoor units equipped with a heater for cold regions are those with an "H" in the model name. For the cold-climate zone, use of a unit with a heater is strongly recommended. Even for the moderate-climate zone use of a unit with a heater is recommended for regions subject to high humidity in winter.

# **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/MXZ]

Separately sold parts are available for some models.

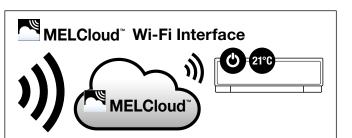
Please consult Mitsubishi Electric or one of its dealers/resellers at the time of purchase for details.

# Major Optional Parts

Part Name	Description	Part Name	Description
<b>Deodourising Filter</b> Captures small foul-smelling substances in the air.		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.	Quiekel
Air-cleaning Filter Removes fine dust particles from the air by means of static electricity.	Deodourising filter	<b>Drain Pump</b> Pumps drain water to a point higher than that where the unit is installed.	for ceiling-suspended units
	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 Decorative
Silver-ionized Air Purifier Filter Captures the bacteria, pollen and other aller- gens in the air and neutralises them.	Silver-ionized Air Purifier Filter "for wall-mounted units	MA & Contact Terminal Interface Interface for connecting with the PAR-32MAA remote controller and PAC-YT52CRA, and to relay operation signals.	Indoor unit  MA & conterminal in Indoor unit
Oil Mist Filter Element Filter element (12 pieces) that blocks the oil mist for ceiling-suspended models used in professional kitchens.	Filter frame Filter element Oil mist filter	System Control Interface Interface to connect with M-NET controllers.	System or interface
High-efficiency Filter Element Element for high-efficiency filter. Removes fine dust particles from the air.	Plug (for directing airflow)  High-efficiency filter element  *For 4-way cassette units (PLA)	Wi-Fi Interface Interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.	W/Fi inter
3D i-see Sensor Corner Panel for SLZ Corner panel holding the 3D i-see Sensor.	I-see Sensor corner panel	Connector Cable  This product is an adaptor which inputs the incoming signals from an open/close switch to the air conditioner and outputs the on/off signals from the air conditioner to the back-up heater.	Indoor unit
i-see Sensor Corner Panel for PLA Corner 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.	
Shuttle Plate Plate for blocking an air outlet of the 4-way cassette (PLA) 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.	A.500F ⊚ ⊙ ⊘ ⊙
Multi-functional Casement Casement 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.	A 2008*
Fresh-air Intake Duct Flange Flange attachment for adding a duct to take in fresh air from outside.	*For 4-way cassette units (PLA)	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 ceiling height is low.	Space Panel	Wireless Remote Controller Signal Sender Handheld unit for sending operation signals to the indoor unit.	

Part Name	Description
Wireless Remote Controller Signal Receiver Receives operation signals from the wireless remote controller handheld unit.	Signal receiver Control of the Contr
Wireless Remote Controller Kit (Sender & Receiver) Remote controller handheld unit (signal sender) and receiver (signal receiver) for ceiling-suspended units.	Signal receiver
Control Holder Holder for storing the remote controller.	Control holder
Remote Sensor Sensor to detect the room temperature at remote positions.	Remote sensor
Remote On/Off Adapter Connector for receiving signals from the local system to control the on/off function.	Remote on/off adapter
Remote Operation Adapter Adapter to display the operation status and control on/off function from a distance.	Remote operation adapter
Connector Cable for Remote Display Connector used to display the operation status and control on/off function from a distance.	Connector cable for remote display  Brown  Red  Orange  Yellow  Green
<b>Distribution Pipe</b> Branch pipe for P Series simultaneous multisystem use, or to connect two branch boxes for MXZ-8B140V(Y)A/160V(Y)A systems.	Indoor unit Indoor unit Distribution pipe  1P Series with 2 indoor units
Joint Pipe Part for connecting refrigerant pipes of different diametres.	Joint pipe Onsite pipe Indoor unit Insulator
Liquid Refrigerant Dryer Removes water and minute particles from refrigerant pipes.	
Branch Box Outer Cover Casement for branch boxes.	Complete view  Branch box outer cover
Air Discharge Guide Changes the direction of air being exhausted from the outdoor unit.	

D. 111	D
Part Name	Description
Air Protection Guide Protects the outdoor unit from the wind.	
Drain Socket A set of caps to cover unnecessary holes at the bottom of the outdoor unit, and a socket to guide drain water to the local drain pipe.	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.	Croup namote controller  Converter  Power supply unit  For traventicable
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



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							Filter											3D i-see		Multi-	Free	h-air		
_				ionized		Deodourising	IL millialitie	Oil Mist Filter	Ŀ	High-ef	ficiency	<i>'</i>		Filter	Вох		Softdry cloth	Sensor Corner	Sensor Corner	Plata	functional	Fres Intake	e Duct	Space Pane	
		MAC- 2360	Air Purif MAC- 2370	MAC- 2380	MAC- 172	Filter MAC-	Filter MAC- 3005	PAC- SG38	PAC- SH59	PAC- SH88	PAC-	PAC- SH90	PAC- KE92	PAC- KE93	PAC- KE94	PAC- KE95	MAC- 1001	Panel PAC-	Panel PAC- SF1	PAC- SH51	PAC- SH53	PAC- SH65	PAC- SF28	PAC- SH48	<u>-</u>
door Unit		FT	FT	FT	FT-E	3000FT-E	CF-E	KF-E	KF-E	KF-E	KF-E	KF-E	TB-E	TB-E	TB-E	TB-E	CL-E	ME-E	ME-E	SP-E	TM-E	OF-E	OF-E	AS-E	Ĕ
Wall - mounted	MSZ-FH25VE2 MSZ-FH35VE2			•		•																			4
mounted	MSZ-FH50VE2			•		•																			+
	MSZ-EF18VE3(W)(B)(S)		•														•								
	MSZ-EF22VE3(W)(B)(S)		•														•								
	MSZ-EF25VE3(W)(B)(S)		•														•								_
	MSZ-EF35VE3(W)(B)(S) MSZ-EF42VE3(W)(B)(S)	_	•														•								+
	MSZ-EF50VE3(W)(B)(S)		•														•								1
	MSZ-SF15VA																								
	MSZ-SF20VA MSZ-SF25VE3																								_
	MSZ-SF35VE3		•																						+
	MSZ-SF42VE3		•																						
	MSZ-SF50VE3		•																						_
	MSZ-GF60VE2 MSZ-GF71VE2	•																							+
	MSZ-DM25VA																								+
	MSZ-DM35VA		•																						
	MSZ-HJ25VA		•																						_
	MSZ-HJ35VA MSZ-HJ50VA		•																						+
	MSZ-HJ60VA		•																						+
	MSZ-HJ71VA		•																						
Floor -	MFZ-KJ25VE2		•																						1
standing	MFZ-KJ35VE2 MFZ-KJ50VE2		•																						+
1-way	MLZ-KA25VA				•		•																		
cassette	MLZ-KA35VA						•																		I
4 1117	MLZ-KA50VA						•																		1
4-way cassette	SLZ-KF25VA2 SLZ-KF35VA2																		0						+
	SLZ-KF50VA2																		•						+
	SLZ-KF60VA2																		•						
Ceiling -	SEZ-KD25VAQ/VAL																								_
conceald	SEZ-KD35VAQ/VAL SEZ-KD50VAQ/VAL																								-
	SEZ-KD50VAQ/VAL SEZ-KD60VAQ/VAL																								+
	SEZ-KD71VAQ/VAL																								
4-way	PLA-RP35BA								•									•		•	•	•		•	
Cassette	PLA-RP50BA PLA-RP60BA								•									•		•		•		•	_
	PLA-RP71BA								•									•		•	•	•		•	
	PLA-RP100BA								•													•		•	丁
	PLA-RP125BA								•									•		•	•			•	1
	PLA-RP140BA2 PLA-ZRP35BA								•									•		•	•	•		•	+
	PLA-ZRP35BA PLA-ZRP50BA								•											•		•			+
	PLA-ZRP60BA								•												•	•		•	
	PLA-ZRP71BA								•									•		•	•	•		•	Ţ
	D1 4 DD D 1115																								
	PLA-ZRP100BA																			•				_	+
	PLA-ZRP125BA								•									•		•	•	•		0	
Ceiling -													•							•				•	
Ceiling - conceald	PLA-ZRP125BA PLA-ZRP140BA PEAD-RP35JAQ PEAD-RP35JALQ												•							•				•	
	PLA-ZRP125BA PLA-ZRP140BA PEAD-RP35JAQ PEAD-RP35JALQ PEAD-RP50JAQ												•							•				•	
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	PLA-ZRP125BA PLA-ZRP140BA PEAD-RP35JAQ PEAD-RP35JALQ PEAD-RP50JAQ PEAD-RP50JALQ PEAD-RP60JAQ PEAD-RP60JAQ PEAD-RP60JALQ PEAD-RP60JALQ PEAD-RP60JALQ												•	•	•					•				•	
	PLA-ZRP125BA PLA-ZRP140BA PEAD-RP35JAQ PEAD-RP35JALQ PEAD-RP50JAQ PEAD-RP60JAQ PEAD-RP60JAQ PEAD-RP60JAQ PEAD-RP60JALQ PEAD-RP71JAQ PEAD-RP71JALQ PEAD-RP100JALQ PEAD-RP100JALQ PEAD-RP100JALQ PEAD-RP100JALQ												•	•	•					•				•	
	PLA-ZRP125BA PLA-ZRP140BA PEAD-RP35JAQ PEAD-RP35JALQ PEAD-RP50JAQ PEAD-RP60JAQ PEAD-RP60JAQ PEAD-RP60JAQ PEAD-RP71JAQ PEAD-RP71JAQ PEAD-RP100JAQ PEAD-RP100JAQ PEAD-RP100JALQ PEAD-RP100JALQ PEAD-RP125JAQ PEAD-RP125JAQ PEAD-RP125JAQ												•	•						•				•	
	PLA-ZRP125BA PLA-ZRP140BA PEAD-RP35JAQ PEAD-RP35JALQ PEAD-RP50JAQ PEAD-RP50JALQ PEAD-RP60JAQ PEAD-RP60JAQ PEAD-RP71JAQ PEAD-RP71JAQ PEAD-RP100JAQ PEAD-RP100JAQ PEAD-RP100JAQ PEAD-RP125JAQ PEAD-RP125JAQ PEAD-RP125JALQ PEAD-RP140JAQ												•	•	•					•				•	
	PLA-ZRP125BA PLA-ZRP140BA PEAD-RP35JAQ PEAD-RP35JALQ PEAD-RP50JAQ PEAD-RP60JAQ PEAD-RP60JAQ PEAD-RP60JAQ PEAD-RP71JAQ PEAD-RP71JAQ PEAD-RP100JAQ PEAD-RP100JAQ PEAD-RP100JALQ PEAD-RP100JALQ PEAD-RP125JAQ PEAD-RP125JAQ PEAD-RP125JAQ												•	•	•	•				•				•	
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<sup>\*1</sup> 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. \*7 Group control cannot be used.

	[	Drain	Pump	)		Dec	orative over	System Control Interface	MA & Contact Terminal Interface	Wi-Fi Interface	Conn Ca		F	Power Termi	Supp nal Ki	ly t	Wired F		Terminal Block kit for PKA		ynal nder	Vireless F	Signal Receive		Controller Kit (Sender & Receiver)	Controller Holder	Remote Sensor	Remote On/Off Adapter	Remote Operation Adapter	Conn Cable Rem Disp
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# Optional Parts List <Outdoor>

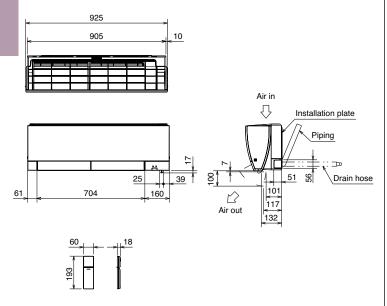
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	Power Inverter	PUHZ-ZRP35VKA PUHZ-ZRP50VKA	<del></del> '	<del>                                     </del>	4		•	<del></del>		<del>  '</del>			<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	_	<del></del> '	•	_	<u> </u>	+
	live	PUHZ-ZRP60VHA		<del></del>		<del></del>		•	•												•		1_
		PUHZ-ZRP71VHA	•	'		<u> </u>		0	•	<b>—</b> '			'								0	'	$\blacksquare$
		PUHZ-ZRP100VKA2 PUHZ-ZRP100YKA2	•		+			•	•	-			-	-		-		-	-		•	+	+
		PUHZ-ZRP125VKA2	•			<del></del>		•	•					<u> </u>			<u> </u>				•		
10		PUHZ-ZRP125YKA2 PUHZ-ZRP140VKA2	•					•	•	-											•		4
RES		PUHZ-ZRP140VKA2 PUHZ-ZRP140YKA2	•	+	•	+	<del></del>	•	•	+	$\hspace{1cm} \longmapsto \hspace{1cm}$	$\vdash$	+	+	<del></del>	+	+-	$\vdash$	+	+	•	+	+
P SERIES		PUHZ-ZRP200YKA		•	•	•		•													•		厂
<b>—</b>	Standard	PUHZ-ZRP250YKA PUHZ-P100VHA4	•	•	•	•	<del>                                     </del>	+	+'	+'	+-	<del></del>	<del></del> '	<del></del>	<del></del>	<del></del> '	<del></del> '	+	+'	—	•	•	+
	Inverter	PUHZ-P125VHA3	•			$\vdash$						$\Box$	-	+-		H	$\vdash$				•		$\vdash$
		PUHZ-P140VHA3	•		•			$\Box$		$\Box$	$\Box$	$\Box$									•		oxdot
		PUHZ-P200YKA PUHZ-P250YKA	<b>—</b>	•	•	•	<u> </u>	<del></del>		<del>  '</del>		1	<del></del> '	<u> </u>	<del>                                     </del>	<u> </u>	$\vdash$	_	<u> </u>	_	•		$\vdash$
		PUHZ-P100YHA2	•																		•		$\vdash$
		PUHZ-P125YHA	•			<u> </u>				<b>—</b> '									<u> </u>		•	<b>二</b> ,	匚
MX	(Z SERIES	PUHZ-P140YHA MXZ-2D33VA	•	_	•		-	-	-	-			-	-	-	-		-	4	_	•	-	$\leftarrow$
IVIX	Z SENIES	MXZ-2D42VA2																					
		MXZ-2D53VA(H)2						4						•									4
		MXZ-2E53VAHZ MXZ-3E54VA	<u> </u>	+	+	+	<del> </del>	<del></del>	+	+'	+-	<del></del>	<del></del> '	•	+	+'	+-	$\vdash$	+'	<del> </del>	+	+'	+
		MXZ-3E68VA								•				•									
		MXZ-4E72VA	<u> </u>	<u> </u>	<del></del>	<u>'</u>	<u> </u>	<del></del>	<del></del> '	•	<del></del> '		<u> </u>	•	<u> </u>	•	<u> </u>	•	<u> </u>	<del></del>	<u> </u>	<u> </u>	ſ.
		MXZ-4E83VA MXZ-4E83VAHZ					<u> </u>			•		•	-	0		•		0	<del>                                     </del>				+
		MXZ-5E102VA								•		•		•		•		•					
		MXZ-6D122VA MXZ-2DM40VA	<u> </u>							•		•	<u> </u>	•	<u> </u>	•		•	<u> </u>			<u> </u>	₽
		MXZ-2DM40VA MXZ-3DM50VA				+								•								_	$\vdash$
		<del></del>						-		$\overline{}$	$\overline{}$	$\overline{}$					-	$\overline{}$					_

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

				Air Outle						otection			ain Soc		p (for	Freeze- reventio Heater Drain P	n 'an)		lized Dra		M-NET Adapter	M-N Conv	erter	Control/ Service Tool	Step Interface  1 PC board w/attachment kit attachment kit		or mlator
	MAC- 889 SG	MAC- 881 SG	MAC- 856 SG	MAC- 886 SG-E	MAC- 883 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- SG60 DS-E	PAC- SG61 DS-E	MAC- 643 BH-E	MAC- 644 BH-E	PAC- 645 BH-E	PAC- SG63 DP-E	PAC- SG64 DP-E	PAC- SH97 DP-E	PAC- IF01 MNT-E	PAC- SJ19 MA-E	PAC- SF83 MA-E	PAC- SK52ST	PAC- IF012B-E	MAC- 892 INS-E	893
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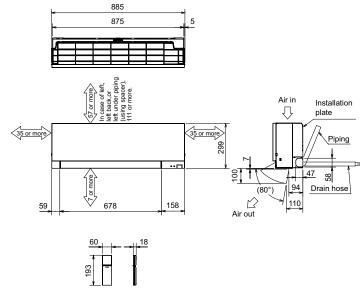
#### MSZ-FH25VE2 MSZ-FH35VE2 MSZ-FH50VE2

#### INDOOR UNIT



MSZ-EF18VE3(W)(B)(S) MSZ-EF22VE3(W)(B)(S) MSZ-EF25VE3(W)(B)(S) MSZ-EF35VE3(W)(B)(S) MSZ-EF50VE3(W)(B)(S)

#### INDOOR UNIT



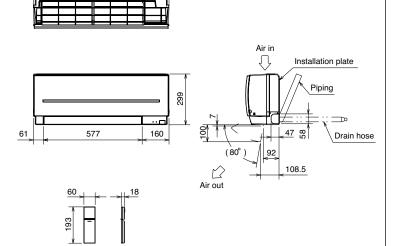
#### MSZ-SF25VE3 MSZ-SF35VE3 MSZ-SF42VE3 MSZ-SF50VE3

10

#### INDOOR UNIT

798

778

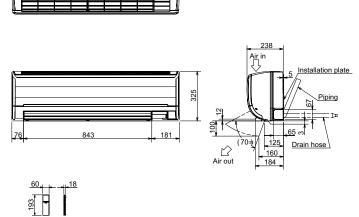


#### MSZ-GF60VE2 MSZ-GF71VE2

1100

1090

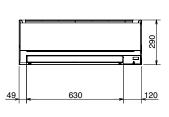
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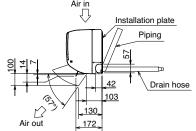


#### MSZ-DM25VA MSZ-DM35VA

#### INDOOR UNIT



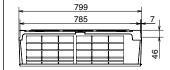


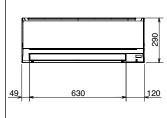


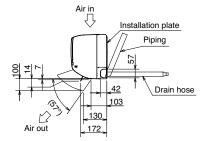


#### MSZ-HJ25VA MSZ-HJ35VA MSZ-HJ50VA

#### INDOOR UNIT





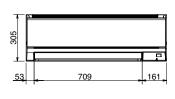


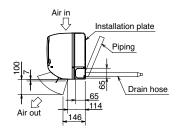


#### MSZ-HJ60VA MSZ-HJ71VA

#### **INDOOR UNIT**





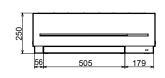


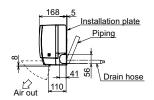


## MSZ-SF15VA MSZ-SF20VA

#### INDOOR UNIT

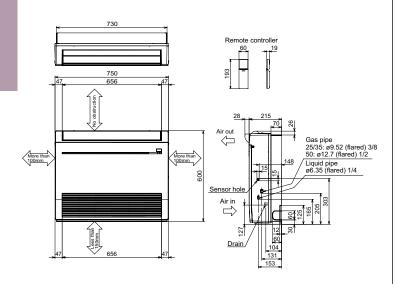






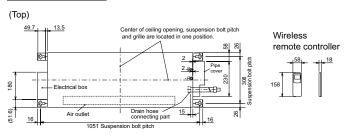


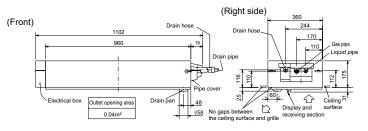
# MFZ-KJ25VE2 MFZ-KJ35VE2 MFZ-KJ50VE2 INDOOR UNIT

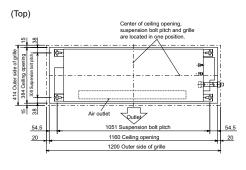


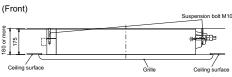
#### MLZ-KA25VA MLZ-KA35VA MLZ-KA50VA

#### INDOOR UNIT

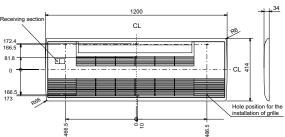








#### Grille (MLP-440W)



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

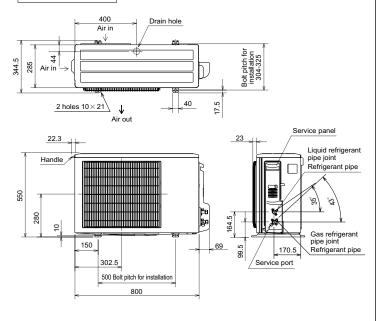
**MUZ-EF42VE** 

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

**MUZ-HJ50VA** 

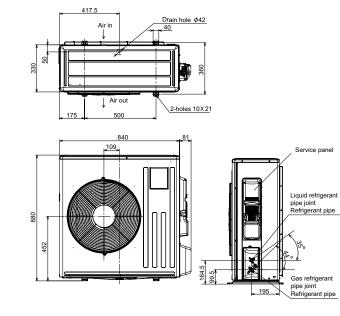
MUFZ-KJ25VE MUFZ-KJ35VE MUFZ-KJ35VEHZ

#### **OUTDOOR UNIT**

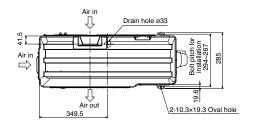


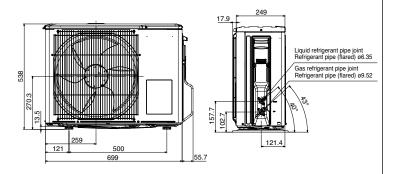
MUZ-FH50VE MUZ-FH50VEHZ
MUZ-SF50VE MUZ-SF50VEH
MUZ-GF60VE MUZ-GF71VE

MUZ-HJ60VA MUZ-HJ71VA
OUTDOOR UNIT UFZ-KJ50VEHZ



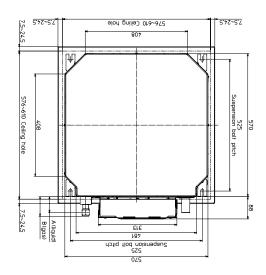
# MUZ-DM25VA MUZ-DM35VA MUZ-HJ25VA MUZ-HJ35VA OUTDOOR UNIT



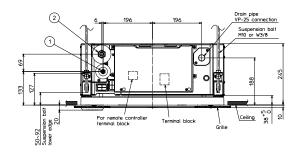


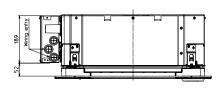
#### SLZ-KF25VA2 SLZ-KF35VA2 SLZ-KF50VA2 SLZ-KF60VA2

INDOOR UNIT

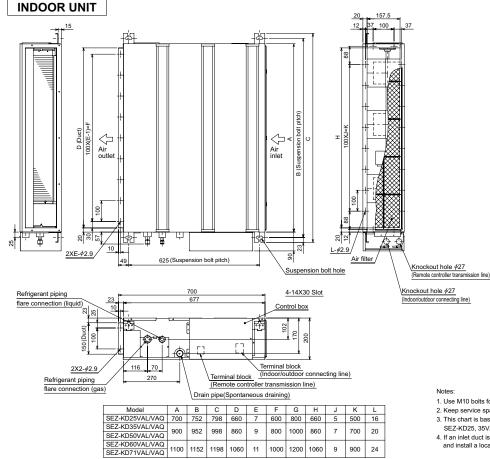


Models	Refrigerent pipe (liquid)	② Refrigerent pipe (gas)	Α	В
SLZ-KF25VA2 SLZ-KF35VA2			63mm	72mm
SLZ-KF50VA2		φ 12.7mm flared connection 1/2F	63mm	78mm
SLZ-KF60VA2		φ15.88mm flared connection 5/8F	63mm	78mm





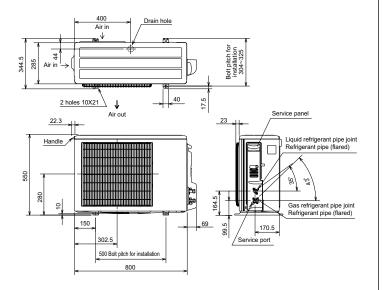
#### SEZ-KD25VAQ SEZ-KD35VAQ SEZ-KD50VAQ SEZ-KD60VAQ SEZ-KD71VAQ SEZ-KD25VAL SEZ-KD35VAL SEZ-KD50VAL SEZ-KD60VAL SEZ-KD71VAL



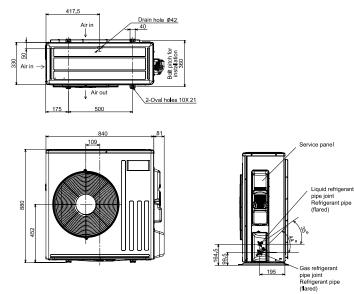
- 1. Use M10 bolts for suspension (purchase locally).
- Keep service space for maintenance at the bottom.
   This chart is based on the SEZ-KD50VAL/VAQ, which has three fans.
- SEZ-KD25, 35VAL/VAQ has two fans, and SEZ-KD60, 71VAL/VAQ has four fans.

  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.

# SUZ-KA25VA5 SUZ-KA35VA5 OUTDOOR UNIT

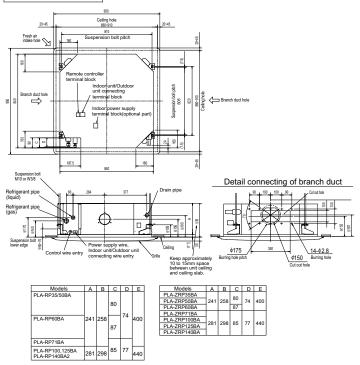


# SUZ-KA50VA5 SUZ-KA60VA5 SUZ-KA71VA5 OUTDOOR UNIT



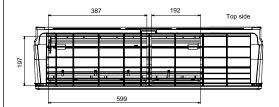
PLA-RP35BA PLA-RP50BA PLA-RP60BA PLA-RP71BA PLA-RP100BA PLA-RP125BA PLA-RP140BA2 PLA-ZRP35BA PLA-ZRP50BA PLA-ZRP71BA PLA-ZRP100BA PLA-ZRP125BA PLA-ZRP140BA

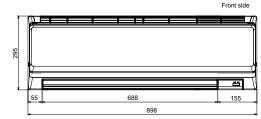
#### INDOOR UNIT

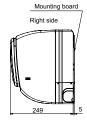


#### PKA-RP35HAL PKA-RP50HAL

#### INDOOR UNIT

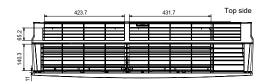


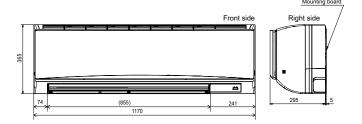




#### PKA-RP60KAL PKA-RP71KAL PKA-RP100KAL

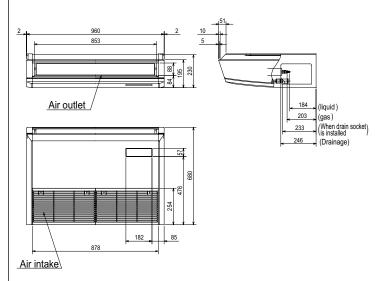
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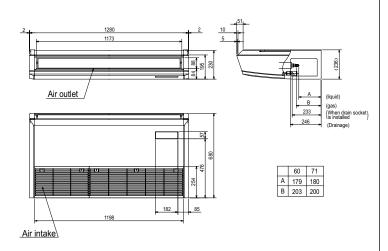
#### PCA-RP35KAQ PCA-RP50KAQ

#### **INDOOR UNIT**



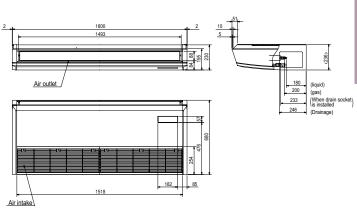
#### PCA-RP60KAQ PCA-RP71KAQ

#### INDOOR UNIT



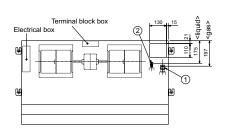
#### PCA-RP100KAQ PCA-RP125KAQ PCA-RP140KAQ

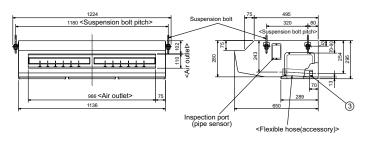
#### INDOOR UNIT



#### PCA-RP71HAQ

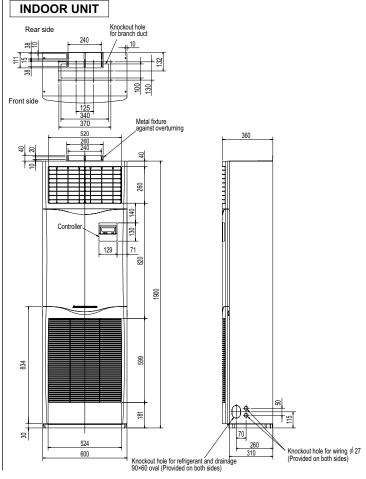
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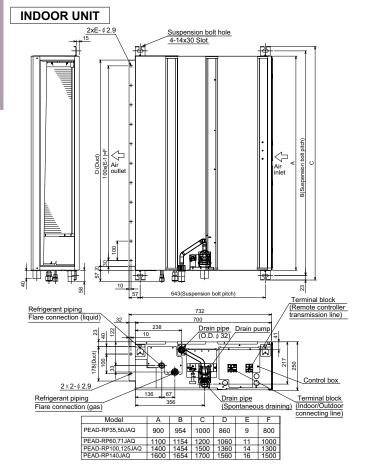


- ①Refrigerant pipe connection(gas pipe side/flared connection)
  ②Refrigerant pipe connection(liquid pipe side/flared connection)
  ③Flexible hose(accessory) —Drainage pipe connection

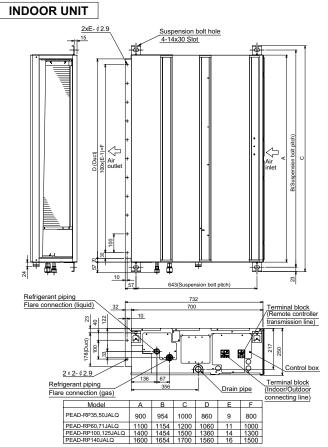
# PSA-RP71KA PSA-RP100KA PSA-RP125KA PSA-RP140KA



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

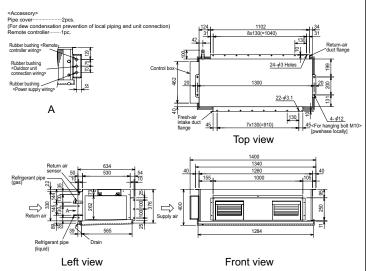


# PEAD-RP35JALQ PEAD-RP50JALQ PEAD-RP60JALQ PEAD-RP71JALQ PEAD-RP100JALQ PEAD-RP125JALQ PEAD-RP140JALQ



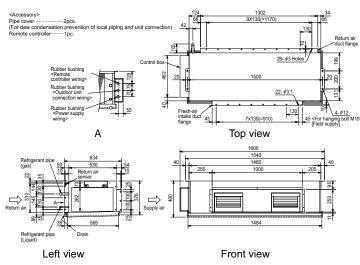
#### PEA-RP200GAQ

#### INDOOR UNIT



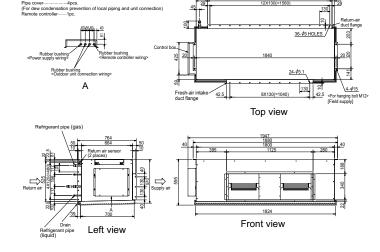
#### PEA-RP250GAQ

#### INDOOR UNIT



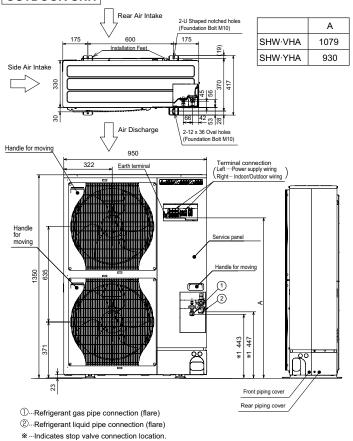
#### PEA-RP400GAQ PEA-RP500GAQ

#### INDOOR UNIT



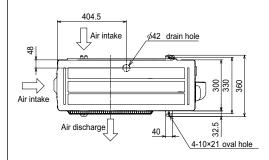
#### PUHZ-SHW80VHA PUHZ-SHW112VHA PUHZ-SHW112YHA PUHZ-SHW140YHA

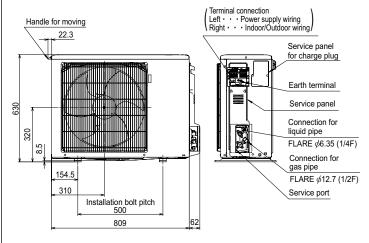
#### **OUTDOOR UNIT**



#### PUHZ-ZRP35VKA PUHZ-ZRP50VKA

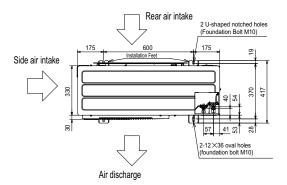
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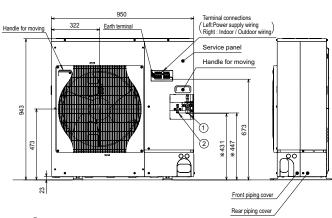




#### PUHZ-ZRP60VHA PUHZ-ZRP71VHA

#### **OUTDOOR UNIT**





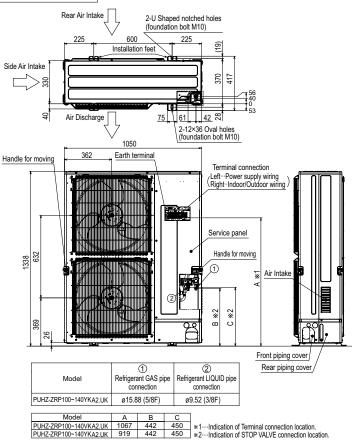
#### ①···Refrigerant gas pipe connection (flare)

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 >8 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

450

ر %

442

Air Intake 985

Front piping cover

Rear piping cover

**(1)** (2) Refrigerant GAS pipe Refrigerant LIQUID pipe Model connection connection PUHZ-ZRP200YKA.UK ø19.05 (3/4F) ø9.52 (3/8F) PUHZ-ZRP250YKA.UK ø19.05 (3/4F)

BRAZING /

\*1...Indication of Terminal connection location

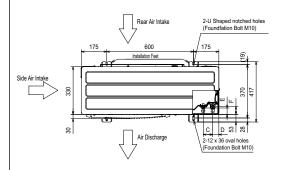
1338 632

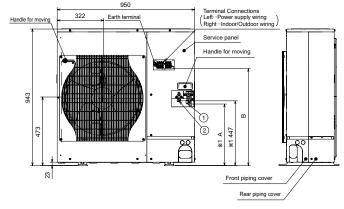
369

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

#### PUHZ-P100VHA4 PUHZ-P100YHA2

#### **OUTDOOR UNIT**

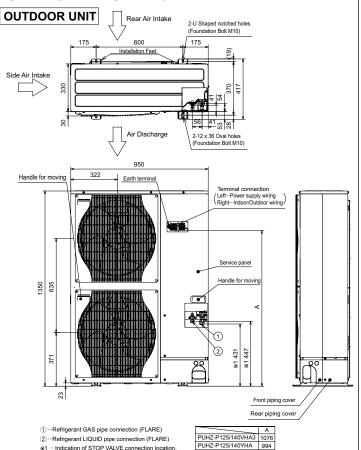




- Refrigerant GAS pipe connection (FLARE)
- ② ···Refrigerant LIQUID pipe connection (FLARE) \*1 ···Indication of STOP VALVE connection location.

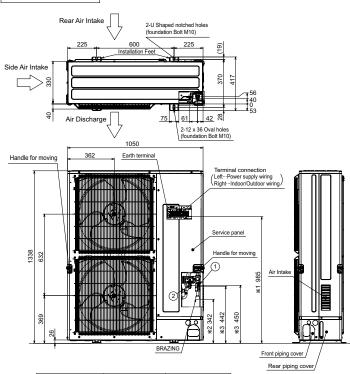
#### PUHZ-P125VHA3 PUHZ-P140VHA3 PUHZ-P125YHA PUHZ-P140YHA

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



#### PUHZ-P200YKA PUHZ-P250YKA

#### **OUTDOOR UNIT**

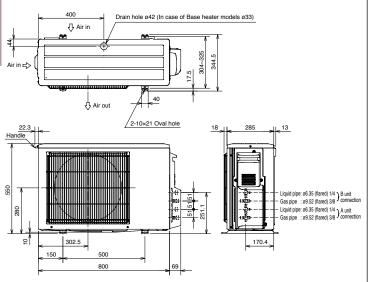


1 Model Refrigerant GAS pipe Refrigerant LIQUID pipe connection connection PUHZ-P200YKA.UK ø19.05 (3/4F) ø9.52 (3/8F) ø19.05 (3/4F) PUHZ-P250YKA.UK

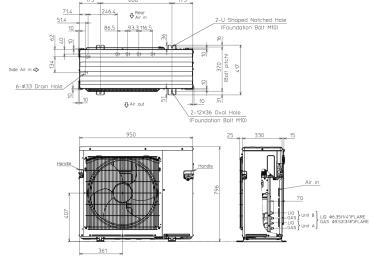
- \*1···Indication of Terminal connection location.
  \*2···Refrigerant GAS pipe connection (BRAZING) O.Dø25.4.
  \*3···Indication of STOP VALVE connection location.

# MXZ-2D33VA MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2 MXZ-2DM40VA

#### **OUTDOOR UNIT**

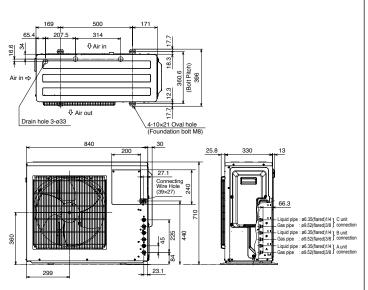


# MXZ-2E53VAHZ OUTDOOR UNIT



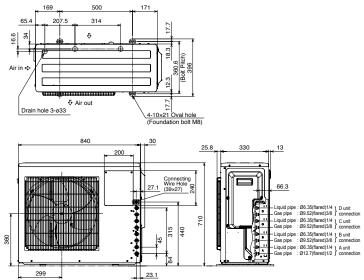
# MXZ-3E54VA2 MXZ-3E68VA MXZ-3DM50VA

#### **OUTDOOR UNIT**

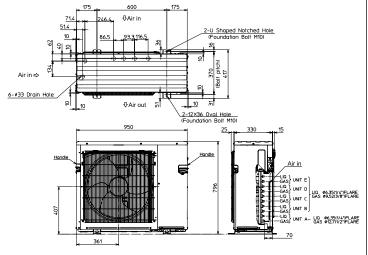


#### MXZ-4E72VA

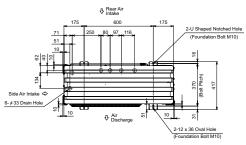
#### **OUTDOOR UNIT**

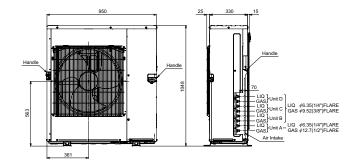


# MXZ-4E83VA MXZ-5E102VA OUTDOOR UNIT



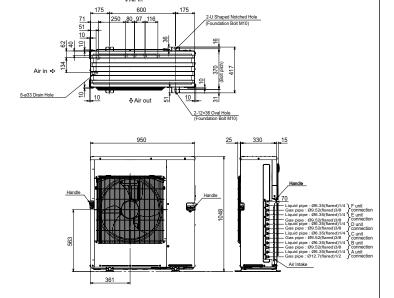
# MXZ-4E83VAHZ OUTDOOR UNIT





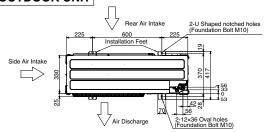
#### MXZ-6D122VA

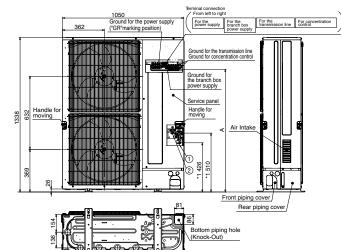
#### **OUTDOOR UNIT**



#### PUMY-P112/125/140VKM2(-BS) PUMY-P112/125/140YKM2(-BS)

#### **OUTDOOR UNIT**





Example of Notes

....Refrigerant GAS pipe connection (FLARE) ø15.88 (5/8F)
 ....Refrigerant LIQUID pipe connection (FLARE) ø5.52 (3/8F)
 ....Indication of STOP VALVE connection location.

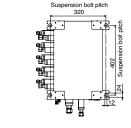
45 110 160 160 160

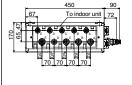
Model	Α
PUMY-P112/125/140VKM2(-BS)	1062
PUMY-P112/125/140YKM2(-BS)	909

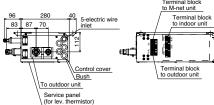
#### PAC-MK51BC

Suspension bolt: W3/W8 (M10)

#### Branch box







Suspension bolt : W3/8(M10)

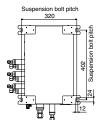
Refrigerant pipe flared connection

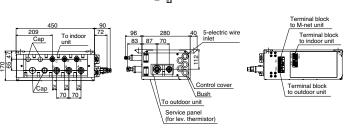
	Α	В	С	D	Е	To outdoor unit
Liquid pipe	1/4F	1/4F	1/4F	1/4F	1/4F	3/8F
Gas pipe	3/8F	3/8F	3/8F	3/8F	1/2F	5/8F

#### PAC-MK31BC

Suspension bolt: W3/W8 (M10)

#### **Branch box**





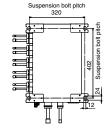
Suspension bolt : W3/8(M10)
Refrigerant pipe flared connection

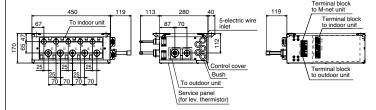
	Α	В	С		To outdoor unit
Liquid pipe	1/4F	1/4F	1/4F		3/8F
Gas nine	3/8F	2/9E	2/9E		E/QE

#### PAC-MK51BCB

Suspension bolt: W3/W8 (M10)

#### Branch box





Suspension bolt : W3/8(M10)

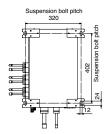
Refrigerant pipe brazed connection

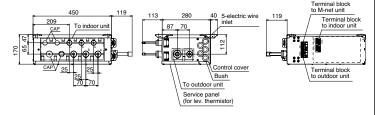
	A	В	C	D	E	To outdoor unit
Liquid pipe	ø6.35	ø6.35	ø6.35	ø6.35	ø6.35	ø9.52
Gas pipe	ø9.52	ø9.52	ø9.52	ø9.52	ø12.7	ø15.88

#### PAC-MK31BCB

Suspension bolt: W3/W8 (M10)

#### Branch box





Suspension bolt : W3/8(M10)
Refrigerant pipe brazed conne

nemgerant pi	Herrigerant pipe brazed connection												
	Α	В	С			To outdoor unit							
Liquid pipe	ø6.35	ø6.35	ø6.35			ø9.52							
Gas nine	aQ 52	a9 52	aQ 52			a15.88							

# Piping Installation

## M SERIES

Single type

Series	Class	Maximum Piping Length (m)	Maximum Height Difference (m)	Maximum Number of Bends
Series	<outdoor unit=""></outdoor>	Total length (A)	Outdoor unit - Indoor unit (H)	Total number
MSZ-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-D	25 / 35	20	12	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
Genes	<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

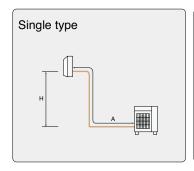
		Max	ximum Piping Length	(m)	Maximum Heigh	Maximum Number of Bends	
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C	Pipe length difference from distribution pipe IB-CI	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number
ZUBADAN (PUHZ-SHW)	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

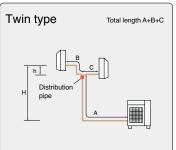
Triple type

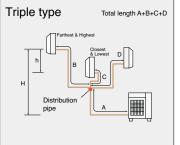
		Max	ximum Piping Length	(m)	Maximum Heigh	Maximum Number of Bends	
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C+D	Pipe length difference from distribution pipe IB-CI	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number
POWER INVERTER (PUHZ-ZRP)	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

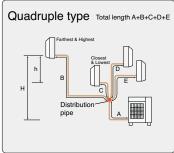
Quadruple type

		Maximum Piping Length (m) Maximum Height Difference (m)		Maximum Piping Length (m) Maximum Hei		Maximum Number of Bends	
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C+D+E	Pipe length difference from distribution pipe IB-CI	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

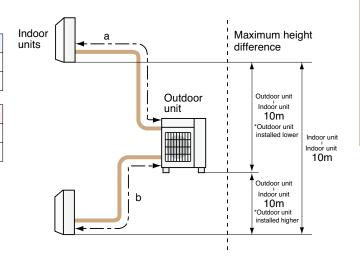
#### MXZ-2D33VA

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

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

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



#### MXZ-2D42VA2

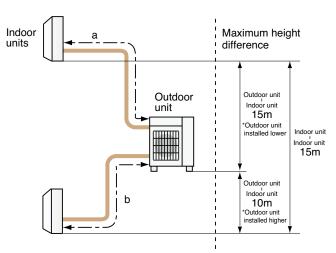
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	20m
Total length (a+b)	30m

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

#### MXZ-2D53VA(H)2, MXZ-2E53VAHZ

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



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

#### MXZ-3E54VA

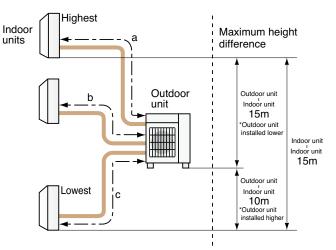
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c)	25m
Total length (a+b+c)	50m

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

#### MXZ-3F68VA

1117 (Z 0 Z 0 Z 0 T ) (	
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



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

#### **MXZ** SERIES

#### MXZ-4E72VA

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

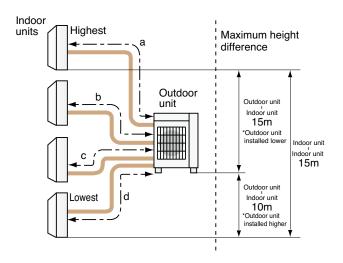
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	60

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

#### MXZ-4E83VA, MXZ-4E83VAHZ

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

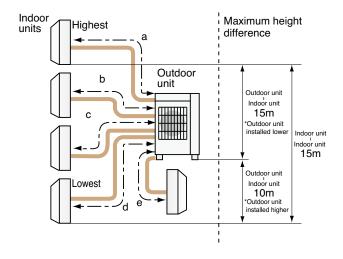
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	70



#### MXZ-5E102VA

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

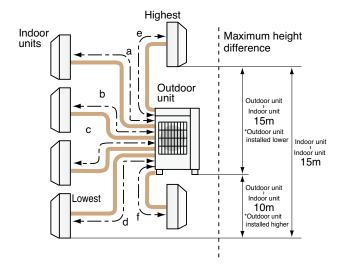
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d,e)	25
Total number (a+b+c+d+e)	80



#### MXZ-6D122VA

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

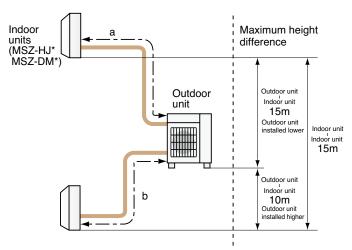
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d,e,f) 25	
Total number (a+b+c+d+e+f)	80



#### MXZ-2DM40VA

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

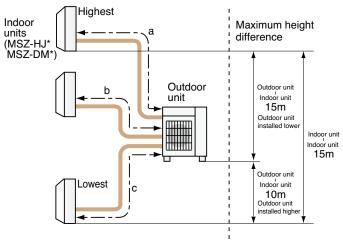


<sup>\*</sup>Only MSZ-HJ and DM model is connectable.

#### MXZ-3DM50VA

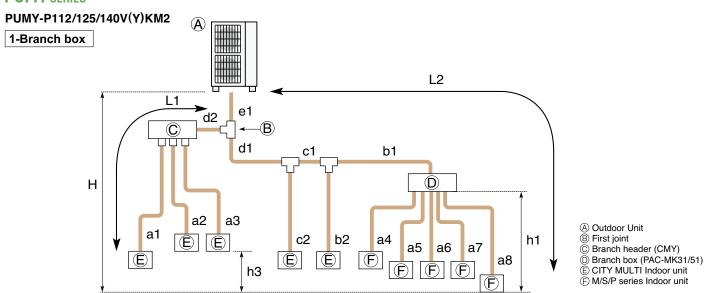
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c)	25m
Total length (a+b+c)	50m

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



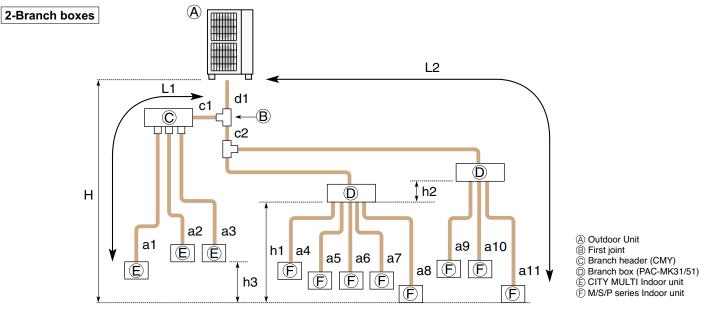
\*Only MSZ-HJ and DM model is connectable.

#### **PUMY** SERIES



Permissible length	Total piping length	$e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \le 300 \text{ m}$
(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 difference (One-way)		H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
		H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		h1≦15 m
	In each indoor unit (h3)	h3≦12 m
Number of bends		le1 + d2 + a1l, le1 + d2 + a2l, le1 + d2 + a3l, le1 + d1 + c2l, le1 + d1 + c1 + b2l,
		le1 + d1 + c1 + b1 + a4l, le1 + d1 + c1 + b1 + a5l, le1 + d1 + c1 + b1 + a6l,
		$  le1 + d1 + c1 + b1 + a7l, le1 + d1 + c1 + b1 + a8l \le 15$

<sup>\*1:</sup> Branch box should be placed within the level between the outdoor unit and indoor units.



Permissible length	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 240 \text{ m}$
(One-way)	Farthest piping length (L1)	d1 + c1 + a1 ≦ 85 m
	Farthest piping length. Via Branch box (L2)	d1 + c2 + b2 + a11 ≦ 80 m
	Piping length between outdoor unit and branch boxes	d1 + c2 + b1 + b2 ≦ 55 m
	Farthest piping length from the first joint	c2 + b2 or c1 + a1 ≦ 30 m
	Farthest piping length after branch box	a11 ≦ 25 m
	Farthest branch box from outdoor unit	d1 + c2 + b2 ≦ 55 m
	Total piping length between branch boxes and indoor units	$a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 95 \text{ m}$
Permissible height difference (One-way)	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
		H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)
	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 + a6 $ , $ d1 + c2 + b2 + a9 $ , $ d1 + c2 + b2 + a9 $ , $ d1 + c2 + b2 + a9 $ , $ d1 + c2 + b2 + a9 $ , $ d1 + d2 + b2 + a9 $ , $ d1 + d2 + b2 + a9 $ , $ d1 + d2 + b2 + a9 $ , $ d1 + d2 + d2 + a9 $ , $ d1 + d2 + d2 + a9 $ , $ d1 + d2 + d2 + a9 $ , $ d1 + d2 + d2 + a9 $ , $ d1 + d2 + d2 + a9 $ , $ d1 + d2 + a9 $ , $ d$

<sup>\*1:</sup> Branch box should be placed within the level between the outdoor unit and indoor units.

#### **Explanation of Terminology**

#### Maximum piping length:

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

#### Total length:

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

#### **Outdoor Unit - Indoor Unit:**

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

#### Pipe length difference from distribution pipe:

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

#### Indoor Unit - Distribution Pipe:

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

#### Maximum height difference:

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

#### **Outdoor unit - Indoor unit:**

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

#### Indoor unit - Indoor unit

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

#### Maximum number of bends:

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

#### Total number:

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

#### **Outdoor unit - Indoor unit:**

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









## **ECODAN**

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

#### "ECODAN" - Economic, eco conscious next generation heating system

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!**



<sup>\*</sup>Rated capacity is at conditions A2W35. (according to EN14511)

#### New eco-design directive

#### What is the ErP Directive?

The Ecodesign Directive for Energy-related Products (ErP Directive) established a framework to set mandatory standards for ErPs sold in the European Union (EU). The ErP Directive introduces new energy efficiency ratings across various product categories. It affects how products such as computers, vacuum cleaners, boilers and even windows are classified in terms of environmental performance. Labelling regulations that apply to our ATW heat pumps come into effect as of September 26, 2015.

#### New energy label and measurements

Under directive 2009/125/EC, ATW heat pumps of up to 70kW are required to show their heating efficiency on the energy label. The purpose of the energy label is to inform customers about the energy efficiency of a heating unit. The efficiency for space heating is ranked from A++ to G. In the case of domestic hot water, it is from A to G.

A package label is also required if the ECODAN heat pump is installed with a controller and/or a solar system or additional heater. All ECODAN units\* are already rated as A<sup>++</sup> for heating at both 55°C and 35°C and A for domestic hot water, which are the highest efficiency ranks.

#### What is the package label?

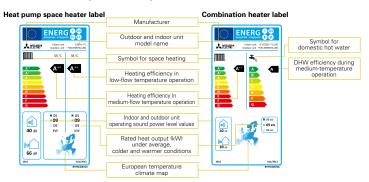
A heating system can use several energy-related products, such as a controller or solar thermal system. Therefore, a label showing the efficiency of the total heating system is required. The category range is defined from  $A^{+++}$  to G.

Creating the package label is the responsibility of the installers and distributors. A useful tool on the Mitsubishi Electric website is available to easily create the labels for ECODAN products and controllers.

erp.mitsubishielectric.eu/erp/options

#### Product label

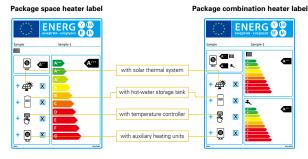
This label is for individual heating units, such as an ECODAN heat pump. Typically, the space heater label is used for ECODAN systems with a hydro box, and the combination heater label is used for ECODAN systems with a cylinder unit.



These labels are delivered with all ECODAN outdoor units.

#### Package label

This label is for heating systems that use several energy-related products, such as a controller or a solar thermal system.



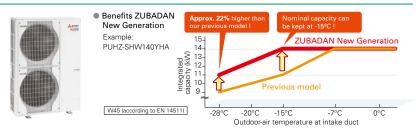
Customised package labels including ECODAN heat pumps and FTC5 controller can be created on the Mitsubishi Electric website.

#### **Designed for Optimal Heating**

#### ZUBADAN New Generation (Split type)

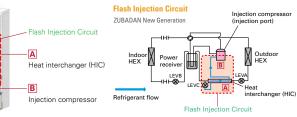
#### Reliable performance in low-temperature outdoor air

ZUBADAN New Generation provides powerful heating in cold regions where most heat pumps cannot perform very well. Its rated heating capacity is maintained even in outdoor temperatures as low as –15°C, even when flow temperature needs to be higher. That means it can be trusted to provide comfortable heating during severe winter months.





Mitsubishi Electric's



The Flash Injection Circuit is an original technology. 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 sufficient flow rate of refrigerant for heating when outdoor temperatures are very low. Thanks to improving the heat interchanger and introducing a new injection compressor, the Flash Injection Circuit is now more powerful.

<sup>\*</sup>Except for our ATA/ATW hybrid system Mr. SLIM+

#### 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 in 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)

# Expansion vessel\* Manometer Expansion vessel\* Booster heater\* Booster heater\* Booster heater\* Strainer Strainer Water pump Domestic hot water pump Plate heat exchanger

#### Larger capacity system





#### **Outdoor units**

Hydro box (Split type)

PUHZ-SW160/200YKA SHW230YKA2

#### Indoor units

EHSE-YM9EC, EHSE-MEC, ERSE-YM9EC, ERSE-MEC

Our 8–10HP ECODAN heat pumps, only available with a hydro box connection, are suitable for large houses and small businesses where a high heating load is necessary. Our latest generation of 8–10HP Power Inverter outdoor units can now reach 60°C maximum flow temperature instead of 53°C previously. The new 8–10HP hydro box is available in both heating only and reversible and can be connected to a customised capacity domestic hot water tank.

#### High-performance for domestic hot water re-charge



\*Depending on model

Adjustable feet

#### External plate heat exchanger – more energy savings using ECODAN's unique and innovative technologies

#### Save energy in domestic hot water operations

Thanks to an external plate heat exchanger, ECODAN offers much higher domestic hot water efficiency. Compared to our previous model, domestic hot water recharge efficiency is improved by approximately 17%\*1, thereby reducing operating costs.

#### Avoid performance loss due to scale

A scale trap is incorporated after the plate heat exchanger to capture calcium scale particles, thus maintaining the high performance of the external plate heat exchanger. (Just a 3% reduction during 15 years\*<sup>2</sup>).

#### Lighter weight

Compared to our previous model, the cylinder unit is up to 15kg lighter\*.

This is thanks to the coil incorporated in the tank which has been removed and replaced by a much lighter plate heat exchanger.

\*Comparison between EHST20C-VM2C and EHST20C-VM2B.

# COP (recharging) 140% Our new model (External heat exchanger with scale trap) 120% Initial performance level of previous model (Coil in tank) 80% 40% 20% 0 2 4 6 8 10 12 14 year <\*1, \*2> Usage condition Tank temperature: 10 degree to 60 degree Heating up time: 1 hour per 1 day Supersaturation of CaCCoi. 50

\*15 years accelerated testing

#### Optimised stratification for better comfort

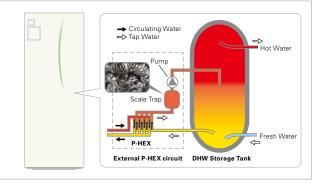
Thanks to the L-shaped inlet pipe from the plate heat exchanger, stratification is well maintained after re-charge. You do not need to worry about running out of hot water the same as with a conventional coil in tank.

Supply water temperature can be kept high until all the hot water in the tank has been used.

#### The secret behind our external plate heat exchanger system

Thanks to the unique plate heat exchanger and scale trap technology, a more efficient performance is achieved. In conventional systems, there is a risk of calcium scale building up on the heat-exchange plate if it is exposed to tap water directly. Therefore, it is difficult to use plate-based heat exchangers to heat tap water. To resolve this problem, ECODAN is equipped with a "scale trap" that catches homogeneous calcium nuclei in the tap water before it has a chance to grow into large scales, thereby inhibiting build-up in the external heat exchanger. ECODAN can use a plate heat exchanger to heat tap water, resulting in much higher domestic hot water performance.

Notice: In the case of the special conditions such as very hard tap water, please consult with a specialist before installation.



#### **Unique technology of ECODAN**

#### **Auto Adaptation**

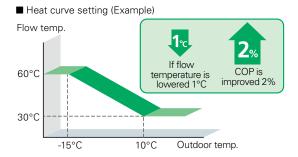
#### Maximize energy savings while retaining comfort at all times



\*SD logo is a trademark

Regarding the relation of flow temperature and unit performance, a 1°C drop in the flow temperature improves the coefficient of performance (COP) of the ATW system by 2%. This means that energy savings are dramatically affected by controlling the flow temperature in the system.

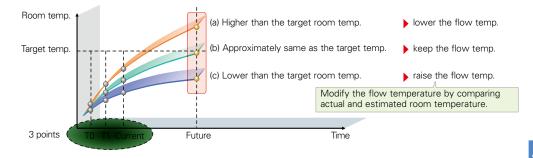
In a conventional system controller, the flow temperature is determined based on the pre-set heat curve depending on the actual outdoor temperature. However, this requires a complicated setting to achieve the optimal heat curve.



#### Mitsubishi Electric's Auto Adaptation function automatically tracks changes in the actual room temperature and outdoor temperature and adjusts the flow temperature accordingly.

Aiming to realise further comfort and energy savings, Mitsubishi Electric is proud to introduce a revolutionary new controller. Our advanced 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



#### Two-zone control (for heating/cooling) NEW

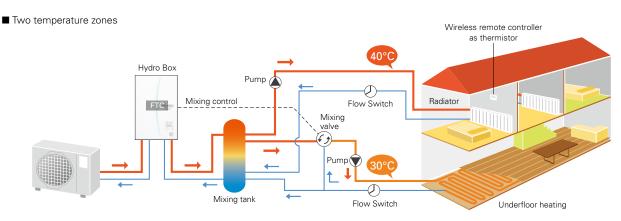
#### Simultaneously control two different zones

SD

ings ca

Using ECODAN, it is possible to control two different flow temperatures, thereby managing two different heating load requirements. The system can adjust and maintain two flow temperatures when different temperatures are required for different rooms; for example, controlling a flow temperature of 40°C for the bedroom radiators and another flow temperature of 30°C for the living room floor heating.

Another feature of this model is that two-zone cooling control is now possible. Using these functions it is easy to maintain the most comfortable temperature in each room and to save energy too.



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

#### Multiple unit control

# Settings can be performed using an SD card.

#### Connect up to 6 units – Automatic control of multiple units for bigger capacity and better efficiency

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

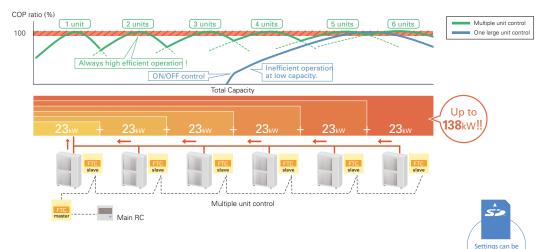
an SD ca

A maximum of 6 units\* can be configured according to the heating/cooling load of the building. The most efficient number of operating units is determined automatically based on heating/cooling load. This enables ECODAN to provide optimal room temperature control, and thus superior comfort for room occupants. Also incorporated is a rotation function that enables each unit to run for an equal time period.

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

\*Only same models (same capacity) can be used.

■ Multiple unit control



#### Intelligent boiler interlock

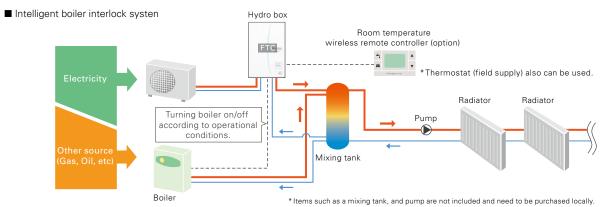
An existing boiler can be used for extra heating capacity in an efficient way \*SD logo is a trademar of SD-3C, LLC

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

In the event of one heating unit not working due to some unforeseen problem, the other heating system can be used as a back-up, thereby preventing the heating system operation from stopping completely.

\*Please check below "Heat source switchover".

#### Intelligent system combining a boiler with ECODAN



#### Heat source switchover - Choose appropriate system based on needs

#### 4 types of heat source switchover logic

- ① Switchover based on actual outdoor temperature
  - Heat source switchover occurs when the outdoor temperature drops below a pre-set temperature.
- 2 Switchover based on running cost
  - Heat source switchover occurs by judging optimal operation based on running cost.
    - \*Pre-registration of the energy price of electricity, and gas or oil per 1kWh is necessary.
- 3 Switchover based on CO2 emission level
  - Heat source switchover occurs to minimise CO<sub>2</sub> emission.
     \*Pre-registration of CO<sub>2</sub> emission amount from electricity and gas or oil is necessary.
- 4 Switchover can also be activated via external input
  - For example, the peak cut signal from electric power company.

#### Remote controllers

#### Smart user-friendly controller with stylish design

#### Main remote controller

- Large screen and backlight for excellent visibility, even in dark environment
- Multi-language support (supports 15 languages)
- Can be removed from main unit and installed in a remote location (up to 500m)
- Quick reading of operation data (7.5 times faster than previous model)
- Wide range of convenient functions in response to user demand **Function settings** 
  - NEW Energy monitoring
  - NEW 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



**121**℃

PAR-WT50R-E (Option) Wireless remote controller

#### Wireless remote controller (optional)

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

#### Energy monitoring **NEW**



#### View electricity consumption and heat output on the remote controller



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

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

#### Other features

- Daily, monthly and yearly data are stored and can be displayed using the main remote controller.
- External power meter and heat meter can be connected for accurate measurement.
- SD card is also available for storing data.
- \*Using pre-set values on the main remote controller, estimated energy consumption/output can be shown without external power and a heat meter.

Depending on operating condition and system configuration, there is some possibility to show different data from the reality.

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



#### Summer time setting NEW





#### Easy adjustment for summer time

Just switch the summer time mode 'on' using the main remote controller and the clock in the main remote controller is adjusted to summer time hours

This function can release the end user from clock setting tasks.





#### Two separate schedules NEW



Pre-setting two different schedules for winter and summer seasons

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

an SD card

Two different schedule settings are available for use via the main

These schedules can be pre-set and changed depending on the season. For example, from November to March, space heating and domestic hot water are used; however, during warm months such as from April to October, only domestic hot water is used.



#### Easy commissioning

#### Pump for primary water circuit\* speed setting possible using ECODAN's main remote controller

Even when the system is running, pump output can be set to one of five different settings using the main remote controller.

The person commissioning the system can adjust this speed much more easily.

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



#### Flow sensor newly incorporated

The flow sensor is key for monitoring energy output and can also be used to detect flow error as well.

- Flow rate can be checked on the main remote controller.
- Flow rate can also be shown as graphs using the SD card tool.



#### Run indoor unit\* without outdoor unit

During installation or situations such as an outdoor unit malfunction, the indoor unit can be operated using a heater. While using this mode, flow and tank temperature are selectable.

Fixing and maintenance of the outdoor unit can be done without stopping heating and domestic hot water operation\*.

- \* Models with electric heater only.
- \*When the indoor unit operation stops, please check all settings after the outdoor unit is connected.

# Settings can be performed using an SD card.

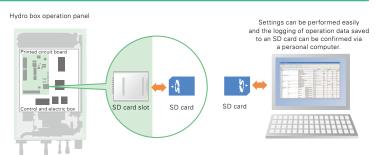
\*SD logo is a trademark of SD-3C, LLC

#### SD\* card

#### For easier settings and data logging

The initial setting for ECODAN is now simpler than ever before. The special software enables the required initial settings to be saved to an SD card using a personal computer. The system set-up is as easy as moving the SD card from the computer to the SD card slot in the indoor unit. Compared to the previous procedure of inputting settings using the main controller at the installation site, a remarkable reduction in set-up time has been achieved. Thus, it is ideal for busy installers.

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



#### Items that can be pre-set

Simply copying pre-set data to an SD card,

the same settings can input into another unit using the SD card.

- Initial settings (time display, contact number, etc.)
- Heating settings
  - Auto adaptation
  - Heat curve
  - Two different temperature zones (heating and cooling)
- Interlocked boiler operation settings
- Holiday mode settings
- Schedule timer settings (two separate schedules)
- Domestic hot water settings
- Legionella prevention settings

All items that are set by the main controller can be set via a personal computer.

#### Data that can be stored

Operation data up to a month long can be stored on a single SD card (2GB).

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

#### Split type specifications

#### Indoor unit

<Cylinder unit>

WRAS WRAS

Coymination units																			
Model n	ame				EHST20C- VM2C	EHST20C- VM6C	EHST20C- YM9C	EHST20C- TM9C	EHST20C- VM2EC	EHST20C- VM6EC	EHST20C- YM9EC	EHST20C- MEC	EHST20D- VM2C	EHST20D- YM9C	EHST20D- VM2EC	EHST20D- MHC	EHST20D- MEC	EHST20C- MHCW*2	EHST20D- MHCW*2
		Тур	е								Н	leating onl	у						
		Imn	nersion heater		-	-	-	-	-	-	-	-	-	-	-	×	-	×	×
		Exp	ansion vessel		×	×	×	×	-	-	-	-	×	×	-	×	-	×	×
		Boo	ster heater		×	×	×	×	×	×	×	-	×	×	×	-	-	-	-
Dimensi	ons	H×V	V×D	mm							16	00×595×6	30	,					
Weight	(empty)			kg	110	111	112	112	104	105	106	103	103	105	97	103	96	110	103
Power s	upply (V	/Phase/H	lz)					•	•		2	30/Single/5	50	•					
Heater	Booste	r Pov	ver supply (V/Phase/	Hz)	230/Sir	ngle/50	400/Three/50	230/Three/50	230/Si	ngle/50	400/Three/50	-	230/Single/50	400/Three/50	230/Single/50			-	
	heater	Cap	acity	kW	2	6 (2/4/6)	9 (3/6/9)	9 (3/6/9)	2	6 (2/4/6)	9 (3/6/9)	-	2	9 (3/6/9)	2			-	
		Cur	rent	Α	9	26	13	23	9	26	13	-	9	13	9			-	
		Bre	aker size	Α	16	32	16	32	16	32	16	-	16	16	16			_	
	Immers	sion Pov	ver supply (V/Phase/	Hz)						-						230/Single/50	-	230/Sir	ngle/50
	heater	Cap	acity	kW						-						3	-		3
		Cur	rent	Α						-						13	-	1	3
		Bre	aker size	Α						-						16	-	1	6
Domesti hot water		Volume /	Material	L/-							200 /	/ Stainless	steel						
Guarant		Ambient		°C								0~35*1							
operatin range*1	g [	Outdoor	Heating	°C							See outo	door unit s	pec table						
range .			Cooling	°C								-							
Target		Heating	Room temperature	°C								10~30							
tempera range	ture		Flow temperature	°C								25~60							
		Cooling	Room temperature	°C								-							
			Flow temperature	°C								-							
		DHW		°C								40~60							
	Legionella prevention		°C								60~70								
Sound p	und pressure level (SPL) dB (											28							

<sup>\*1</sup> The environment must be frost-free \*2 UK model

#### <Hydro box>

Model n	ame				EHSD- MEC	EHSD- MC	EHSD- VM2C	EHSD- YM9C	EHSC- MEC	EHSC- VM2C	EHSC- VM2EC	EHSC- VM6C	EHSC- VM6EC	EHSC- YM9C	EHSC- YM9EC	EHSC- TM9C	EHSE- MEC	EHSE- YM9EC
		Тур	e				1			1	Heatin	g only						
		lmn	nersion heater		-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Exp	ansion vessel		-	×	×	×	-	×	-	×	-	×	-	×	-	-
		Boo	ster heater		-	-	×	×	-	×	×	×	×	×	×	×	-	×
Dimensi	ons	H×V	V×D	mm						800×5	30×360						950×6	600×360
Weight (	(empty)			kg	38	43	44	45	42	48	43	49	44	49	44	49	60	62
Power s	ower supply (V/Phase/Hz)										230/Sir	ngle/50						
Heater			ver supply (V/Phase/	Hz)	-	-	230/Single/50	400/Three/50	-		230/Sir	ngle/50		400/Th	ree/50	230/Three/50	-	400/Three/50
			acity	kW	-	-	2	9 (3/6/9)	-	2	2	6 (2/4/6)	6 (2/4/6)	9 (3/6/9)	9 (3/6/9)	9 (3/6/9)	-	9 (3/6/9)
		Cur	rent	Α	-	-	9	13	-	9	9	26	26	13	13	23	-	13
		Bre	aker size	Α	-	-	16	16	-	16	16	32	32	16	16	32	-	16
Guarant		mbient		°C							0~:	35*1						
operatin range*1	g o	utdoor	Heating	°C						Se	e outdoor ι	ınit spec tal	ble					
rungo			Cooling	°C							-							
Target		eating	Room temperature	°C							10-	-30						
tempera range	ture		Flow temperature	°C							25-	-60						
range	С	ooling	Room temperature	°C							-	-						
			Flow temperature	°C							-	-						
Sound p	und pressure level (SPL)					-			-	2	28						:	30

<sup>\*1</sup> The environment must be frost-free

#### <Reversible cylinder unit>

Model n	ame					ERST20D- VM2C	ERST20D- MFC	ERST20C- VM2C	ERST20C- MEC
			Тур	P				nd cooling	IVILC
			<u> </u>	nersion heater		_	_	_	_
				ansion vessel		×		×	_
			⊢ ·	ster heater		×	_	×	_
Dimensi	one			V×D	mm	_ ^	1600×5		
Weight (			11/4	***	kg	103	96	110	103
Power si			se/H	7)	l va	100	230/Sir		
Heater	Boost		_	ver supply (V/Phase/	Hz)	230/Single/50		230/Single/50	_
	heate		$\vdash$	acity	kW	2	_	2	_
			<u> </u>	rent	Α	9	_	9	_
			Bre	aker size	А	16	-	16	-
	Imme	rsion	Pov	ver supply (V/Phase/	Hz)	-	-	-	-
heater		r	Сар	acity	kW	-	-	-	-
			Cur	rent	Α	-	-	-	-
			Bre	aker size	А	-	-	-	-
Domesti hot wate		Volu	me/	Material	L/-		200 / Stair	less steel	•
Guarant		Amb	ient		°C		0~3	15*1	
operatin range*1	g	Outo	loor	Heating	°C	See	outdoor u	ınit spec ta	ble
range .				Cooling	°C	See outdoo	r unit spec t	able (minimu	ım 10°C*2)
Target		Heat	ing	Room temperature	°C		10~	-30	
tempera range	ture			Flow temperature	°C		25~	-60	
range		Cool	ing	Room temperature	°C		-	-	
				Flow temperature	°C		5~2	25	
		DHV	/		°C		40~	-60	
	Legionella prevention			°C		60~	-70		
Sound p	ound pressure level (SPL)						2	8	

#### <Reversible hydro box>

		-								
Model n	ame					ERSD- VM2C	ERSC- MEC	ERSC- VM2C	ERSE- MEC	ERSE- YM9EC
			Тур	e			Heat	ing and co	oling	
			lmn	nersion heater		-	-	-	-	-
			Exp	ansion vessel		×	-	×	-	-
			Boo	ster heater		×	-	×	-	×
Dimensi	ons		H×V	V×D	mm	8	00×530×36	50	950×60	00×360
Weight (	empty)				kg	45	43	49	61	63
Power s	Power supply (V/Phase/Hz)						2	30/Single/5	50	
Heater			Pov	ver supply (V/Phase/	Hz)	230/Single/50	-	230/Single/50	-	400/Three/50
	heater		Сар	acity	kW	2	-	2	-	9 (3/6/9)
			Cur	rent	Α	9	-	9	-	13
			Bre	aker size	Α	16	-	16	-	16
Guarant		Amb	ient		°C			0~35*1		
operatin range*1	g	Outd	loor	Heating	°C		See outo	loor unit sp	ec table	
range .				Cooling	°C	See ou	tdoor unit	spec table (	minimum 1	10°C*2)
Target		Heat	ing	Room temperature	°C			10~30		
tempera range	ture			Flow temperature	°C			25~60		
range		Cool	ing	Room temperature	°C			-		
				Flow temperature	°C			5~25		
Sound p	ound pressure level (SPL)						28		3	0

<sup>\*1</sup> The environment must be frost-free
\*2 If you use our system in cooling mode at the low ambient temperature (10°C or below),
there are some risks of plate heat exchanger breaking by frozen water.

<sup>\*1</sup> The environment must be frost-free
\*2 If you use our system in cooling mode at the low ambient temperature (10°C or below),
there are some risks of plate heat exchanger breaking by frozen water.

#### Outdoor unit

Model name	е			SUHZ- SW45VA (H)*1	PUHZ- SW50VKA (-BS)	PUHZ- SW75VHA (-BS)	PUHZ- SW100V/YHA (-BS)	PUHZ- SW120V/YHA (-BS)	PUHZ- SW160YKA (-BS)	PUHZ- SW200YKA (-BS)	PUHZ- SHW80VHA	PUHZ- SHW112V/YHA	PUHZ- SHW140YHA	PUHZ- SHW230YKA2
Dimensions	H	×W×D	mm	880×840×330	630×809×300	943×950×330	1350×950×330	1350×950×330	1338×1050×330	1338×1050×330	1350×950×330	1350×950×330	1350×950×330	1338×1050×330
Product wei	ght (emp	ty)	kg	54	43	75	118/130	118/130	136	136	120	120/134	134	149
Power supp	ly (V / Pha	ase / Hz)						VHA : 230/Singl	e/50 YHA, YK	A: 400/Three/50	)			
Heating	Capacity	/	kW	4.50	5.50	8.00	11.20	16.00	22.00	25.00	8.00	11.20	14.00	23.00
(A7/W35)	COP			5.06	4.42	4.40	4.45	4.10	4.20	4.00	4.65	4.46	4.22	3.65
	Power in	nput	kW	0.889	1.244	1.818	2.517	3.902	5.238	6.250	1.720	2.511	3.318	6.301
Heating	Capacity	/	kW	3.50	5.00	7.50	10.00	12.00	16.00	20.00	8.00	11.20	14.00	23.00
(A2/W35)	COP			3.40/3.04	2.97	3.40	3.32	3.24	3.11	2.80	3.55	3.34	2.96	2.37
	Power in	nput	kW	1.029/1.151	1.684	2.206	3.009	3.704	5.145	7.143	2.254	3.353	4.730	9.705
Cooling	Capacity	/	kW	4.00	4.50	6.60	9.10	12.50	16.00	20.00	7.10	10.00	12.50	20.00
(A35/W7)	EER			2.73	2.76	2.82	2.75	2.32	2.76	2.25	3.31	2.83	2.17	2.22
	Power in	nput	kW	1.465	1.630	2.340	3.309	5.388	5.797	8.889	2.145	3.534	5.760	9.009
Cooling	Capacity	/	kW	3.80	5.00	7.10	10.00	14.00	18.00	22.00	7.10	10.00	12.50	20.00
(A35/W18)	EER			4.28	4.60	4.43	4.35	4.08	4.56	4.10	4.52	4.74	4.26	3.55
	Power in	nput	kW	0.888	1.087	1.603	2.299	3.431	3.947	5.366	1.571	2.110	2.934	5.634
Sound pressure level (SPL)	Heating		dB (A)	52	46	51	54	54	62	62	51	52	52	59
Sound power level (PWL)	Heating		dB (A)	61	63	68	70	72	78	78	69	70	70	75
Operating co	urrent (m	ax)	Α	12.0	13.0	17.0	29.5/13.0	29.5/13.0	19.0	21.0	29.5	35.0/13.0	13.0	26.0
Breaker size			Α	20	16	25	32/16	32/16	25	32	32	40/16	16	32
Piping	Diameter	Liquid/Gas	mm	6.35/12.7	6.35/12.7	9.52/15.88	9.52/15.88	9.52/15.88	9.52/25.4	12.7/25.4	9.52/15.88	9.52/15.88	9.52/15.88	12.7/25.4
	Max. length	Out-In	m	30	40	40	75	75	80	80	75	75	75	80
	Max. height	Out-In	m	30	30	30	30	30	30	30	30	30	30	30
Guaranteed	Heating		°C	-15 to +24	-15 to +21	-20 to +21	-20 to +21	-20 to +21	-20 to +21	-20 to +21	-28 to +21	-28 to +21	-28 to +21	-25 to +21
operating range	DHW		°C	-15 to +35	-15 to +35	-20 to +35	-20 to +35	-20 to +35	-20 to +35	-20 to +35	-28 to +35	-28 to +35	-28 to +35	-25 to +35
	Cooling	*2	°C	-10 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	-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. \*2 Optional air protection guide is required where ambient temperature is lower than -5°C.

#### Optional parts <Indoor unit>

Parts name	Model name	Specification								Cylind	er unit								Hydro	xod
			EHST20C- VM2C	EHST20C- VM6C	EHST20C- YM9C	EHST20C- TM9C	EHST20C- VM2EC	EHST20C- VM6EC	EHST20C- YM9EC	EHST20C- MEC	EHST20D- VM2C	EHST20D- YM9C	EHST20D- VM2EC	EHST20D- MEC	EHST20D- MHC	EHST20C- MHCW	EHST20D- MHCW	ERST models	E*SD or E*SC models	E*SE model
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-I03V2-E	1Ph 3kW	×	×	×	×	×	×	×	×	×	×	×	×	-	-	-	×	-	-
EHPT accessories for UK	PAC-WK01UK-E		-	-	-	-	-	-	-	-	-	-	-	-	-	×	×	-	-	-
Joint pipe	PAC-SG73RJ-E	For PUHZ-SW200YKA/ SHW230YKA2 (-BS) ø9.52→ø12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	×
Wi-Fi interface	PAC-WF010-E		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Drain pan stand	PAC-DP01-E	D665mm H270mm W595mm N/W: 14.5kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	x*1	-	-

<sup>\*1</sup> PAC-DP01-E is necessary when you use ERST units. If you use ERST units without this parts, drain will be flowed from the base of units, in cooling mode.

#### <Outdoor unit>

Parts name	Model name	Eco Inverter			Power	Inverter				ZUBA	ADAN	
		SUHZ- SW45VA (H)	PUHZ- SW50VKA (-BS)	PUHZ- SW75VHA (-BS)	PUHZ- SW100V/YHA (-BS)	PUHZ- SW120V/YHA (-BS)	PUHZ- SW160YKA (-BS)	PUHZ- SW200YKA (-BS)	PUHZ- SHW80VHA	PUHZ- SHW112V/YHA	PUHZ- SHW140YHA	PUHZ- SHW230YKA2
Connector for drain hose heater	PAC-SE60RA-E	-	-	×	×	×	×	×	×	×	×	×
signal output	PAC-SE61RA-E	-	×	-	-	-	-	-	-	-	-	-
Air discharge guide	MAC-886SG-E	×	-	-	-	-	-	-	-	-	-	-
	PAC-SJ07SG-E	-	×	-	-	-	-	-	-	-	-	-
	PAC-SG59SG-E	-	-	×	×	×	-	-	×	×	×	-
	PAC-SH96SG-E	-	-	-	-	-	×	×	-	-	-	×
Air protection guide	PAC-SJ06AG-E	-	×	-	-	-	-	-	-	-	-	-
	PAC-SH63AG-E	-	-	×	×	×	-	-	×	×	×	-
	PAC-SH95AG-E	-	-	-	-	-	×	×	-	-	-	×
Drain socket	PAC-SG61DS-E	-	-	×	×	×	×	×	-	-	-	-
	PAC-SJ08DS-E	-	×	-	-	-	-	-	-	-	-	-
Centralised drain pan	PAC-SG63DP-E	-	×	-	-	-	-	-	-	-	-	-
	PAC-SG64DP-E	-	-	×	×	×	-	-	-	-	-	-
	PAC-SH97DP-E	-	-	-	-	-	×	×	-	-	-	-
Control/Service tool	PAC-SK52ST	-	×	×	×	×	×	×	×	×	×	×

#### Packaged type specifications

#### Indoor unit

**♦WRAS** <Cylinder unit> Model name EHPT20X-VM2C EHPT20X-VM6C EHPT20X-TM9C EHPT20X-MHCW\*2 EHPT20X-YM9C Type Heating only Immersion heater Expansion vessel Booster heater Dimensions H×W×D mm 1600×595×680 Weight (empty) 98 100 99 100 98 kg Power supply (V/Phase/Hz) 230/Single/50 230/Three/50 Booster heater Power supply (V/Phase/Hz) 230/Single/50 Heater 400/Three/50 Capacity kW 6 (2/4/6) 9 (3/6/9) 9 (3/6/9) Current Α 26 13 23 Breaker size Α 16 32 16 32 Immersion Power supply (V/Phase/Hz) 230/Single/50 Capacity kW 3 Current Α 13 Breaker size Α 16 Domestic hot water tank L/-Volume / Material 200 / Stainless steel Guaranteed 0~35\*1 Ambient °C operating range\*1 Outdoor °C See outdoor spec table Target temperature range Room temperature °C 10~30 °C 25~60 Flow temperature DHW °C 40~60 Legionella prevention °C 60~70

28

#### <Hydro box>

Sound pressure level (SPL)

Model name				EHPX-VM2C	EHPX-VM6C	EHPX-YM9C
		Туре			Heating only	
		Immersion heater		-	-	-
		Expansion vessel		×	×	×
		Booster heater		×	×	×
Dimensions		H×W×D	mm		800×530×360	
Weight (empty)			kg	37	38	38
Power supply (\	//Phase/Hz)				230/Single/50	
Heater E	Booster	Power supply (V/Pha	se/Hz)	230/Single/50	230/Single/50	400/Three/50
	heater	Capacity	kW	2	6 (2/4/6)	9 (3/6/9)
		Current	Α	9	26	13
		Breaker size	Α	16	32	16
Guaranteed	Ambient		°C		0~35*1	
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	

dB (A)

#### Outdoor unit

Model name			PUHZ-W50VHA2 (-BS)	PUHZ-W85VHA2 (-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		4.50	4.18	4.47	4.42	4.25	4.25
	Power input	kW	1.111	2.153	2.506	2.534	3.294	3.294
Heating	Capacity	kW	5.00	8.50	11.20	11.20	14.00	14.00
(A2/W35)	COP		3.50	3.17	3.34	3.11	3.11	3.11
	Power input	kW	1.429	2.681	3.353	3.601	4.502	4.502
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 to +21	-20 to +21	-20 to +21	-25 to +21	-25 to +21	−25 to +21
operating range	DHW	°C	-15 to +35	-20 to +35	-20 to +35	-25 to +35	-25 to +35	−25 to +35
	Cooling*1	°C	-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 included.) It may differ according to the system configuration.

<sup>\*1</sup> The environment must be frost-free \*2 UK model

<sup>\*1</sup> The environment must be frost-free

<sup>\*1</sup> Optional air protection guide is required where ambient temperature is lower than -5°C.

#### 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-VM6C	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.	×	×	×	×	×	×	×	×
	PAC-TH011TKL-E	For tank temp. (longer)	×	×	×	×	×	×	×	×
	PAC-TH011HT-E	For boiler (flow and return temp.)	×	×	×	×	×	×	×	×
Immersion heater	PAC-I03V2-E	1Ph 3kW	×	×	×	×	-	-	-	-
EHPT accessories for UK	PAC-WK01UK-E		-	-	-	-	×	-	-	-
Wi-Fi interface	PAC-WF010-E		×	×	×	×	×	×	×	×

<Outdoor unit>

Coutabor units							
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 controller

Parts name	Model name	Description
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-SIF051B-E	1 PC Board w/ Case

Note: SUHZ CANNOT be connected to these IFs.

#### Combination table

Type	Model name			Packa	ge type				Split type	
		F	Power Inverte	r		ZUBADAN		Eco Inverter	Power	Inverter
		PUHZ- W50VHA2	PUHZ- W85VHA2	PUHZ- W112VHA	PUHZ- HW112YHA2	PUHZ- HW140VHA2	PUHZ- HW140YHA2	SUHZ- SW45VA(H)	PUHZ- SW50VKA	PUHZ- SW75VH
	EHST20C-VM2C									•
	EHST20C-VM6C									•
	EHST20C-YM9C									•
	EHST20C-TM9C									•
	EHST20C-VM2EC									•
	EHST20C-VM6EC									•
	EHST20C-YM9EC									•
	EHST20C-MEC									•
	EHST20C-MHCW									•
	EHST20D-VM2C							•	•	
	EHST20D-MEC							•	•	
Cylinder unit	EHST20D-MHC							•	•	
,	EHST20D-MHCW							•	•	
	EHST20D-VM2EC							•	•	
	EHST20D-YM9C							•	•	
	ERST20C-MEC									•
	ERST20C-VM2C									•
	ERST20D-MEC							•	•	
	ERST20D-VM2C							•	•	
	EHPT20X-VM2C	•	•	•	•	•	•			
	EHPT20X-VM6C	•	•	•	•	•	•			
	EHPT20X-YM9C	•	•	•	•	•	•			
	EHPT20X-TM9C	•	•	•	•	•	•			
	EHPT20X-MHCW	•	•	•	•	•	•			
	EHSC-VM2C									•
	EHSC-VM2EC									•
	EHSC-VM6C									•
	EHSC-VM6EC									•
	EHSC-YM9C									•
	EHSC-YM9EC									•
	EHSC-TM9C									•
	EHSC-MEC									•
	EHSD-VM2C							•	•	
	EHSD-YM9C							•	•	
lydro box	EHSD-MEC EHSD-MC							•	•	
								•	_	•
	ERSC-VM2C ERSC-MEC									•
	ERSD-VM2C							•	•	
	EHPX-VM2C	•	•	•	•	•	•	_	_	
	EHPX-VM2C	•	•	•	•	•	•			
	EHPX-VM6C EHPX-YM9C	•	•	•	•	•	•			
	EHPX-YM9C EHSE-YM9EC		•	•						
	EHSE-MEC									
	ERSE-YM9EC									
	LITOL-TIVISEC	_								

					Split	type					
		Power	Inverter			Mr. SLIM+			ZUBADAN		
PUHZ- SW100VHA	PUHZ- SW100YHA	PUHZ- SW120VHA	PUHZ- SW120YHA	PUHZ- SW160YKA	PUHZ- SW200YKA	PUHZ- FRP71VHA	PUHZ- SHW80VHA	PUHZ- SHW112VHA	PUHZ- SHW112YHA	PUHZ- SHW140YHA	PUHZ- SHW230YKA2
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### Mr.SLIM+

#### A smart air conditioning and hot water supply system conceived from eco-conscious ideas

Mr. SLIM+ has a heat recovery function, which uses waste heat from air conditioners to heat water. Thanks to heat recovery, Mr. SLIM+ model can achieve a COP of 7.0\*, resulting in intelligent systems with amazing efficiency.

\*Conditions for air-to-air cooling: Indoor 27°C (dry bulb) 19°C (wet bulb); Outdoor 35°C (dry bulb)

#### 1 unit, 2 roles – Total comfort year-round

Air conditioning and hot water supply matching the needs of each room

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

#### Mr. SLIM for Air-to-Air

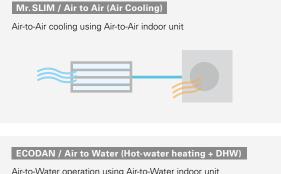
Mr. SLIM+ utilizes a duct system that enables the air conditioning or heating of multiple rooms, and other indoor unit type systems that is possible to fit various applications.

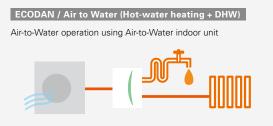
#### **ECODAN for Air-to-Water**

✓Domestic hot water supply ✓Heating for multiple rooms



#### Various operations









#### **Specifications**

Outdoor	11111					PKA-RP71KAL	PCA-RP71KA	PCA-RP71HA	PSA-RP71KA	PEAD-RP71JAQ	PEAD-RP71JALC
	r unit				PLA-ZRP71BA PUHZ-FRP71VHA		PUHZ-FRP71VHA	PUHZ-FRP71VHA	PUHZ-FRP71VHA	PUHZ-FRP71VHA	PUHZ-FRP71VHA
Refriger					TOTIZITILITINA	1 011211117111114	T ONE THE THINK	R410A	TONZINITINA	TOTIZ TILL TIVITA	1 0112 1111 7 1 1117
		Outdoor (V / P	hase / Hz)					230 / Single / 50			
				kW	7.1	7.1	7.1	7.1	7.1	7.1	7.1
(ATA)	Cooming	Capacity		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
		kW	1.85	1.88	1.90	2.26	1.97	2.10	2.08		
		· ·	nateu	KVV	3.84	3.78	3.74	3.14	3.60	3.38	3.41
				kW	7.1	7.1	7.1	7.1	7.1	7.1	7.1
			-:	kWh/a	382	393	387	462	408	459	441
			city consumption ·	KVVII/a							
		SEEN 3	F		6.5 A <sup>++</sup>	6.3 A <sup>++</sup>	6.4 A <sup>++</sup>	5.4	6.1 A <sup>++</sup>	5.4	5.6
-		l						Α		Α	A+
		Capacity		kW	8.0	8.0	8.0	8.0	8.0	8.0	8.0
				kW	3.5-10.2	3.5-10.2	3.5-10.2	3.5-10.2	3.5-10.2	3.5-10.2	3.5-10.2
			Rated	kW	2.05	2.26	2.26	2.42	2.28	2.09	2.09
					3.90	3.54	3.54	3.14	3.33	3.83	3.83
				kW	4.7	4.7	4.7	4.7	4.7	4.9	4.9
				kW	4.7 (-10°C)	4.7 (-10°C)	4.7 (–10°C)	4.7 (-10°C)	4.7 (-10°C)	4.9 (-10°C)	4.9 (-10°C)
			-	kW	4.7 (–10°C)	4.7 (-10°C)	4.7 (-10°C)	4.7 (-10°C)	4.7 (-10°C)	4.9 (-10°C)	4.9 (-10°C)
				kW	3.5 (-20°C)	3.5 (-20°C)	3.5 (-20°C)	3.5 (-20°C)	3.5 (-20°C)	3.7 (-20°C)	3.7 (-20°C)
				kW	0	0	0	0	0	0	0
		Annual elect	ricity consumption *1	kWh/a	1,510	1,569	1,555	1,787	1,709	1,799	1,799
		SCOP *3			4.4	4.2	4.2	3.7	3.9	3.8	3.8
			Energy-efficiency class		A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>	Α	Α	Α	А
	Nominal	I flow rate (for I	heating)	L/min				22.90			
(ATW)	Heating*4	A7W35	Capacity	kW				8.00			
			Input	kW				1.96			
			COP					4.08			
		A2W35	Capacity	kW				7.50			
			Input	kW				2.65			
			COP					2.83			
		W45	Capacity (ATA cooling + ATW)	kW	7.1+8.0	7.1+8.0	7.1+8.0	7.1+8.0	7.1+8.0	7.1+8.0	7.1+8.0
			Input	kW	1.90	1.93	1.95	2.31	2.02	2.15	2.13
	cooling &		COP		7.95	7.82	7.74	6.54	7.48	7.02	7.09
	ATW)*5	W55	Capacity (ATA cooling + ATW)	kW	7.1+9.0	7.1+9.0	7.1+9.0	6.4+9.0	7.1+9.0	7.1+9.0	7.1+9.0
			Input	kW	2.97	3.00	3.02	3.25	3.09	3.22	3.20
			COP		5.42	5.37	5.33	4.74	5.21	5.00	5.03
	ATW ind	loor unit					Cylinder unit o	r Hydro box (see	previous page)		
Outdoor	r unit	Dimensions	HxWxD	mm				943-950-330 (+30)	1		
		Weight	1	kg	73	73	73	73	73	73	73
		Air volume	Cooling	m³/min	55	55	55	55	55	55	55
			Heating	m³/min	55	55	55	55	55	55	55
		Sound pressure	Cooling	dB(A)	47	47	47	47	47	47	47
		level (SPL)	Heat recovery	dB(A)	47	47	47	47	47	47	47
			ATA Heating	dB(A)	48	48	48	48	48	48	48
				dB(A)	48	48	48	48	48	48	48
		Sound power	_	dB(A)	67	67	67	67	67	67	67
				dB(A)	67	67	67	67	67	67	67
			-	dB(A)	68	68	68	68	68	68	68
			_	dB(A)	68	68	68	68	68	68	68
		Operating cur	_	A	19.0	19.0	19.0	19.0	19.0	19.0	19.0
		Breaker size		A	25	25	25	25	25	25	25
Ext.pipir	na	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
-verbibii	⊌	Max. length	Out-In	m	5.52/15.00	0.02/10.00		or ATA) + 30 (for A		5.52/15.00	0.02/10.00
		Max. height	Out-In		20	20	20	20	20	20	20
Guerra	and			°C							
(outdoor		ating range	Cooling *2		-15~+46	-15~+46	-15~+46	-15~+46	-15~+46	-15~+46	-15~+46
	tdoor)		Heating	°C	-20~+21	-20~+21	-20~+21	-20~+21	-20~+21	-20~+21	-20~+21
			ATW	°C	-20~+35	-20~+35	-20~+35	-20~+35	-20~+35	-20~+35	-20~+35
			Heat recovery	°C	+7~+46	+7~+46	+7~+46	+7~+46	+7~+46	+7~+46	+7~+46

<sup>\*1</sup> 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 Air-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 NEW



#### MELCloud for fast, easy remote control and monitoring of your ECODAN

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

You can control and check ECODAN via MELCloud from virtually anywhere an Internet connection is available.

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



#### Key control and monitoring features

- Turn system on/off
- See status of each of your heating zones & adjust set points
- See the status of your hot water cylinder & boost remotely
- 4 Live weather feed from ECODAN location

Holiday mode - Set system parameters while away Schedule timer - Set 7 day weekly schedule Frost protection - Set system to run at minimum temperature Error status

Check energy usage report\* \*Additional measuring hardware is required.



#### All A<sup>++</sup> line-up!!

except for ATA & ATW hybrid system, M	r. SLIM+		For r	nedium-	temperat	ure appli	cation			For	low-tem	perature	applicat	tion	
		g s			SUS			4	gr.			r e			4
Outdoor unit	Indoor unit	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level Lwa indoor	Sound power level Lwa	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level Lwa indoor	Sound power level Lwa
		Seasonal : energy eff	Water hea efficiency	Rated hea average c	Seasonal senergy eff	Water hea efficiency climate co	Sound por indoor	Sound po	Seasonal : energy eff	Water hea efficiency	Rated hea average cl	Seasonal senergy eff	Water heating ene efficiency under av	Sound por indoor	Sound por outdoor
			_	kW	%	%	dB	dB			kW	%	%	dB	dB
SUHZ-SW45VA	EHST20D-***	A++	A	4.6	126	109	40	61	A++	A	5.0	170	109	40	61
	ERST20D-****	A++	Α	4.6	128	109	40	61	A++	Α	5.0	174	109	40	61
	EHSD-***	A++	-	4.6	126	-	40	61	A++	-	5.0	170	-	40	61
DILLIZ CIMEDINA / DC)	ERSD-***	A++	-	4.6	128	-	40	61	A++	-	5.0	174	-	40	61
PUHZ-SW50VKA (-BS)	EHST20D-****	A++	A	4.3	125	98	40	63	A++	A	4.5	163	98	40	63
	ERST20D-****	A++	Α	4.3	128	98	40	63	A++	Α	4.5	167	98	40	63
	EHSD-***	A++	-	4.3	125	-	40	63	A++ A++	-	4.5	163	-	40	63
DILLIZ CMZCVILA / DCV	ERSD-***	A++	-	4.3	128	100	40	63		_ A	4.5	167	-	40	63
PUHZ-SW75VHA (-BS)	EHST20C-****	A++ A++	A	7.1 7.1	127	103	40 40	68 68	A++ A++	A	7.2	165 167	103	40	68
	EHSC-***	A++	- A	7.1	129	103	40	68	A++	- A	7.2		103	40	68
	ERSC-***	A++	_	7.1	127 129	_	40	68	A++	_	7.2	165 167	-	40	68 68
PUHZ-SW100VHA/YHA (-BS)	EHST20C-***	A++	A	10.0	125	103	40	70	A++	A	10.4	164	103	40	70
TOTAL OVER TOWN IN COOK	ERST20C-****	A++	A	10.0	127	103	40	70	A++	A	10.4	166	103	40	70
	EHSC-***	A++	-	10.0	125	-	40	70	A++	-	10.4	164	-	40	70
	ERSC-***	A++	_	10.0	127	_	40	70	A++	_	10.4	166	_	40	70
PUHZ-SW120VHA/YHA (-BS)	EHST20C-***	A++	Α	12.0	125	99	40	72	A++	Α	12.9	162	99	40	72
	ERST20C-***	A++	Α	12.0	127	99	40	72	A++	A	12.9	164	99	40	72
	EHSC-***	A++	_	12.0	125	-	40	72	A++	-	12.9	162	-	40	72
	ERSC-***	A++	_	12.0	127	_	40	72	A++	-	12.9	164	_	40	72
PUHZ-SW160YKA (-BS)	EHSE-***	A++	_	13.5	125	-	45	78	A++	_	15.3	161	_	45	78
	ERSE-***	A++	_	13.5	126	-	45	78	A++	_	15.3	163	_	45	78
PUHZ-SW200YKA (-BS)	EHSE-***	A++	-	15.5	128	-	45	78	A++	-	17.3	162	_	45	78
	ERSE-***	A++	-	15.5	129	-	45	78	A++	-	17.3	164	-	45	78
PUHZ-SHW80VHA (-BS)	EHST20C-***	A++	Α	9.0	131	103	40	69	A++	Α	9.6	171	103	40	69
	ERST20C-***	A++	Α	9.0	133	103	40	69	A++	Α	9.6	174	103	40	69
	EHSC-***	A++	-	9.0	131	-	40	69	A++	-	9.6	171	-	40	69
	ERSC-***	A++	-	9.0	133	-	40	69	A++	-	9.6	174	-	40	69
PUHZ-SHW112VHA/YHA (-BS)	EHST20C-***	A++	Α	12.7	128	103	40	70	A++	Α	13.9	167	103	40	70
	ERST20C-***	A++	Α	12.7	130	103	40	70	A++	Α	13.9	169	103	40	70
	EHSC-***	A++	-	12.7	128	-	40	70	A++	-	13.9	167	-	40	70
	ERSC-***	A++	-	12.7	130	-	40	70	A++	-	13.9	169	-	40	70
PUHZ-SHW140YHA (-BS)	EHST20C-***	A++	Α	15.8	127	103	40	70	A++	Α	17.0	164	103	40	70
	ERST20C-***	A++	Α	15.8	128	103	40	70	A++	Α	17.0	165	103	40	70
	EHSC-***	A++	-	15.8	127	-	40	70	A++	-	17.0	164	-	40	70
	ERSC-***	A++	-	15.8	128	-	40	70	A++	-	17.0	165	-	40	70
PUHZ-SHW230YKA2	EHSE-***	A++	-	23.0	127	-	45	75	A++	-	25.0	164	-	45	75
	ERSE-***	A++	-	23.0	128	-	45	75	A++	-	25.0	165	-	45	75
PUHZ-W50VHA2 (-BS)	EHPT20X-***	A++	Α	5.0	127	99	40	61	A++	Α	5.0	162	99	40	61
	EHPX-***	A++	-	5.0	127	-	40	61	A++	-	5.0	162	-	40	61
PUHZ-W85VHA2 (-BS)	EHPT20X-***	A++	Α	8.5	128	97	40	66	A++	Α	8.5	162	97	40	66
	EHPX-***	A++	-	8.5	128	-	40	66	A++	-	8.5	162	-	40	66
PUHZ-W112VHA (-BS)	EHPT20X-***	A++	Α	10.0	125	100	40	67	A++	Α	10.0	164	100	40	67
	EHPX-***	A++	-	10.0	125	-	40	67	A++	-	10.0	164	-	40	67
PUHZ-HW112YHA2 (-BS)	EHPT20X-***	A++	Α	12.7	126	100	40	67	A++	Α	12.7	155	100	40	67
	EHPX-***	A++	-	12.7	126	-	40	67	A++	-	12.7	155	-	40	67
PUHZ-HW140VHA2/YHA2 (-BS)	EHPT20X-***	A++	Α	15.8	126	96	40	67	A++	Α	15.8	157	96	40	67
	EHPX-***	A++	-	15.8	126	-	40	67	A++	-	15.8	157	-	40	67
DINIZ EDDZAVIJA									A + +			4			
PUHZ-FRP71VHA ATA & ATW hybrid system, Mr. SLIM+	EHST20C-***	A+	Α	7.5	123	98	40	68	A++	A	7.5	163	98	40	68
,	EHSC-***	A <sup>+</sup>	-	7.5	123	_	40	68	A++	-	7.5	163	-	40	68

<sup>\*</sup> Based on COMMISSION DELEGATED REGULATION (EU) No 811/2013, average climate conditions

# OSSNAY SYSTEM







#### **LOSSNAY LINE-UP**

Application	Air volume Model	100 CMH	150 CMH	250 CMH	350 CMH	500 CMH	650 CMH	800 CMH	1000 CMH	1500 CMH	2000 CMH	2500 CMH
Commerical Use	LGH-RVX Series		•	•	•	•	•	•	•	•	•	
Use	LGH-RVXT Series NEW									•	•	•
Residential	VL-220CZGV-E NEW			•								
Use	VL-100(E)U₅-E	•										

#### LGH-RVX SERIES

This commercially oriented system can be utilized virtually anywhere with high performance and functions.

#### LGH-RVXT SERIES

Thin large air volume models in LGH series with high performance and functions.

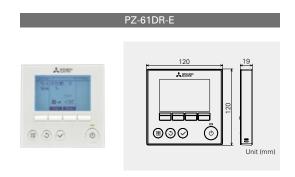
#### VL-220CZGV-E

Centralized ventilation for residential use with sensible heat exchange.

#### **VL-100(E)U**5-E

Wall mount model. Particularly suitable for houses and small offices.

#### REMOTE CONTROLLER



Astronome LOTE:	Tower case  Unit (mm)
-----------------	-----------------------

PZ-43SMF-E

Function	PZ-61	DR-E	PZ-43	SMF-E
(Communicating Mode)	LGH-RVX/RVXT	VL-220CZGV-E	LGH-RVX/RVXT	VL-220CZGV-E
Fanspeed selection	4 fan speeds	4 fan speeds	2 of 4 fan speeds	2 of 4 fan speeds
Ventilatiion mode selection	Energy recovery / Bypass / Auto	Heat recovery / Bypass / Auto (available with optional parts P-133DUE-E)	Energy recovery / Bypass / Auto	Heat recovery / Bypass / Auto (available with optional parts P-133DUE-E)
Night-purge (time)	Anytime schedule	No	No	No
Night-purge (fan speed)	Selecttable from 4 fan speeds	No	No	No
Function setting from RC	Yes	Yes	No	No
Bypass temp. free setting	Yes	Yes (available with optional parts P-133DUE-E)	No	No
Heater-On temp. free setting	Yes	No	No	No
Fan power change after installation	Yes	Yes	No	No
On/Off timer	Yes	Yes	Yes	Yes
Auto-Off timer	Yes	Yes	No	No
Weekly timer	Yes	Yes	No	No
Operation restrictions (On/Off, ventilation mode, fan speed)	Yes	Yes (ventilation mode is available with optional parts P-133DUE-E)	No	No
Operation restrictions (fan speed skip setting)	Yes	Yes	No	No
Screen contrast adjustment	Yes	Yes	No	No
Language selection	Yes (8 languages)	Yes (8 languages)	No (English Only)	No (English Only)
Initializing remote controller	Yes	Yes	No	No
Filter cleaning sign	Yes	Yes	Yes	Yes
Lossnay core cleaning sign	Yes	No	No	No
Error indication	Yes	Yes	Yes	Yes
Error history	Yes	Yes	No	No

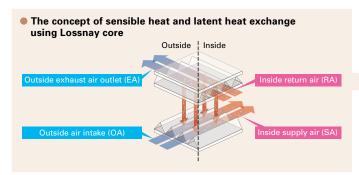
## LOSSNAY

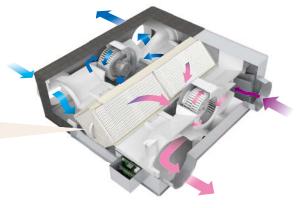
Lossnay ventilation systems are renowned industry-wide for their efficiency. They offer environment-friendly energy recovery and humidity control, and enable air conditioning systems to simultaneously provide optimum room comfort and energy savings.



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

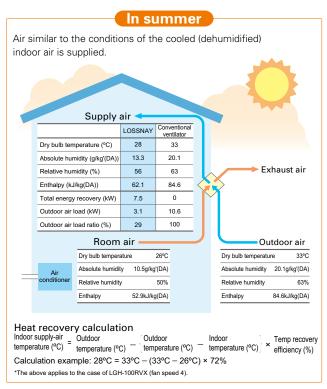
Lossnay is a total heat exchange ventilation system that uses paper characteristics to perform temperature (sensible heat) and humidity (latent heat) exchange.

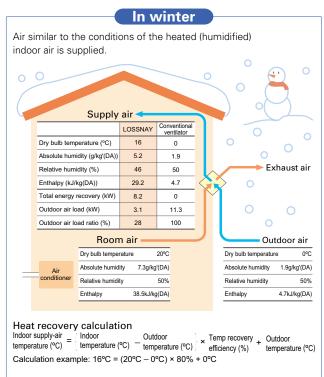




#### What can be Improved by Introducing Lossnay?

#### Ventilation with maximised comfort





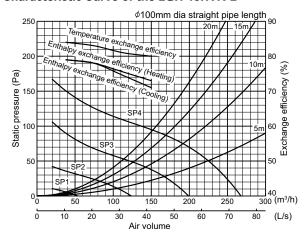
#### Specifications / Dimensions

#### **LGH-15/25RVX-E**

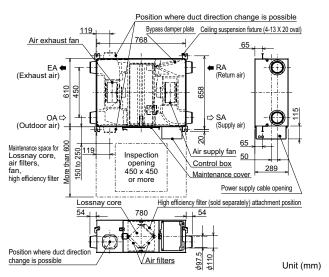
Model				ı	_GH-19	RVX-E						ı	_GH-25	RVX-E			
Electrical power supply				220-24	0V/50H	lz, 220	V/60Hz					220-24	0V/50H	łz, 220	V/60Hz		
Ventilation mode		Hea	t recov	ery mo	ode		Bypass	mode		Hea	at recov	very mo	ode		Bypass	mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		0.40	0.24	0.15	0.10	0.41	0.25	0.15	0.10	0.48	0.28	0.16	0.10	0.48	0.29	0.16	0.11
Input power (W)		49	28	14	7	52	28	14	8	62	33	16	7.5	63	35	17	9
Air volume	(m³/h)	150	113	75	38	150	113	75	38	250	188	125	63	250	188	125	63
All volume	(L/s)	42	31	21	10	42	31	21	10	69	52	35	17	69	52	35	17
External static pressure (Pa)		95	54	24	6	95	54	24	6	85	48	21	5	85	48	21	5
Temperature exchange efficiency (%)		80.0	81.0	83.0	84.0	_	_	_	_	79.0	80.0	82.0	86.0	_	_	_	_
Enthalmy avahanga afficianay (0/)	Heating	73.0	75.5	78.0	79.0	_	_	_	_	69.5	72.0	76.0	83.0	_	_	_	_
Enthalpy exchange efficiency (%)	Cooling	71.0	74.5	78.0	79.0	_	_	_	_	68.0	70.0	74.5	83.0	_	_	_	_
Noise (dB) (Measured at 1.5m under the of unit in an anechoeic cha		28.0	24.0	19.0	17.0	29.0	24.0	19.0	18.0	27.0	22.0	20.0	17.0	27.5	23.0	20.0	17.0
Weight (kg)					2	0							2	3			

<sup>\*</sup>The Air outlets noise (45 angle, 1.5meters in front of the unit) is about 13dB (LGH-15RVX-E) / 15dB (LGH-25RVX-E) 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.

#### Characteristic Curve of the LGH-15RVX-E

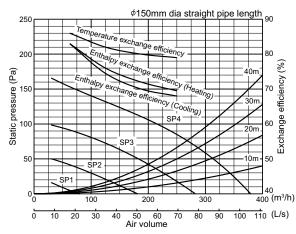


#### Dimensions of the LGH-15RVX-E

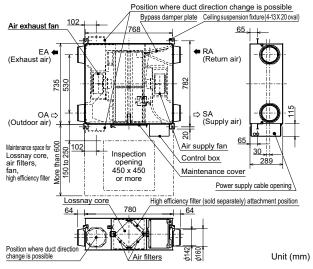


• Certain ratings and specifications may change due to product improvements or modifications.

#### Characteristic Curve of the LGH-25RVX-E



#### Dimensions of the LGH-25RVX-E



• Refer to the product manuals for safety precautions

<sup>\*</sup>For the specification at the other frequency contact your dealer.
\*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

#### Specifications / Dimensions

#### LGH-35/50RVX-E

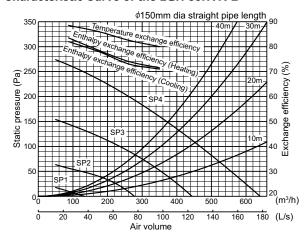
Model				ı	LGH-35	RVX-E						ı	LGH-50	RVX-E			
Electrical power supply				220-24	0V/50H	lz, 220	V/60Hz					220-24	0V/50H	lz, 220	V/60Hz		
Ventilation mode		Hea	it recov	ery mo	ode		Bypass	mode		Hea	at reco	very mo	ode		Bypass	mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		0.98	0.54	0.26	0.12	0.98	0.56	0.28	0.13	1.15	0.59	0.26	0.13	1.15	0.59	0.27	0.13
Input power (W)		140	70	31	11	145	72	35	13	165	78	32	12	173	81	35	14
Air volume	(m³/h)	350	263	175	88	350	263	175	88	500	375	250	125	500	375	250	125
All Volume	(L/s)	97	73	49	24	97	73	49	24	139	104	69	35	139	104	69	35
External static pressure (Pa)		160	90	40	10	160	90	40	10	120	68	30	8	120	68	30	8
Temperature exchange efficiency (%)		80.0	82.5	86.0	88.5	_	-	_	_	78.0	81.0	83.5	87.0	_	_	_	_
Enthalpy exchange efficiency (%)	Heating	71.5	74.0	78.5	83.5	_	_	_	_	69.0	71.0	75.0	82.5	_	_	_	_
Littralpy exchange efficiency (76)	Cooling	71.0	73.0	78.0	82.0	_	_	_	_	66.5	68.0	72.5	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	34.0	28.0	19.0	18.0	35.0	29.0	20.0	18.0
Weight (kg)					3	0							3	3			

<sup>\*</sup>The Air outlets noise (45 angle,1.5meters in front of the unit) is about 12dB (LGH-35RVX-E) / 18dB (LGH-50RVX-E) 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.

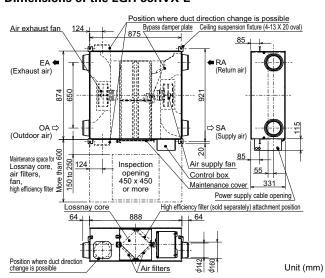
\*For the specification at the other frequency contact your dealer.

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

#### Characteristic Curve of the LGH-35RVX-E

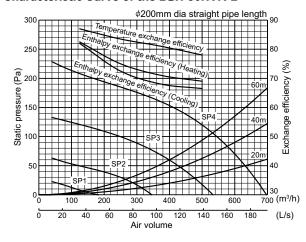


#### Dimensions of the LGH-35RVX-E

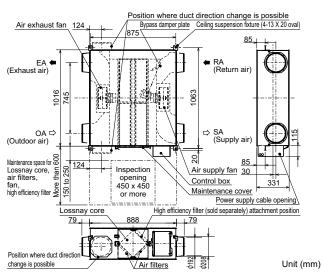


• Certain ratings and specifications may change due to product improvements or modifications.

#### Characteristic Curve of the LGH-50RVX-E



#### Dimensions of the LGH-50RVX-E



Refer to the product manuals for safety precautions.

#### LGH-65/80RVX-E

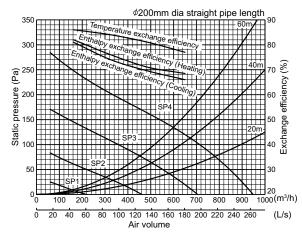
Model				ı	LGH-65	RVX-E						ı	LGH-80	RVX-E	•		
Electrical power supply				220-24	0V/50H	lz, 220	V/60Hz					220-24	0V/50H	lz, 220	V/60Hz		
Ventilation mode		Hea	at recov	ery mo	ode		Bypass	mode		Hea	at recov	ery mo	ode		Bypass	mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		1.65	0.90	0.39	0.15	1.72	0.86	0.38	0.16	1.82	0.83	0.36	0.15	1.97	0.86	0.40	0.15
Input power (W)		252	131	49	15	262	131	47	17	335	151	60	18	340	151	64	20
Air volume	(m³/h)	650	488	325	163	650	488	325	163	800	600	400	200	800	600	400	200
All volume	(L/s)	181	135	90	45	181	135	90	45	222	167	111	56	222	167	111	56
External static pressure (Pa)		120	68	30	8	120	68	30	8	150	85	38	10	150	85	38	10
Temperature exchange efficiency (%)		77.0	81.0	84.0	86.0	_	_	_	_	79.0	82.5	84.0	85.0	_	_	_	_
Enthalpy exchange efficiency (%)	Heating	68.5	71.0	76.0	82.0	_	_	_	_	71.0	73.5	78.0	81.0	_	_	_	_
Littralpy exchange efficiency (76)	Cooling	66.0	69.5	74.0	81.0	_	_	_	_	70.0	72.5	78.0	81.0	-	_	_	_
Noise (dB) (Measured at 1.5m under the of unit in an anechoeic cha		34.5	29.0	22.0	18.0	35.5	29.0	22.0	18.0	34.5	30.0	23.0	18.0	36.0	30.0	23.0	18.0
Weight (kg)					3	8							4	8			

<sup>\*</sup>The Air outlets noise (45 angle,1.5meters in front of the unit) is about 16dB (LGH-65RVX-E) / 24dB (LGH-80RVX-E) 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.

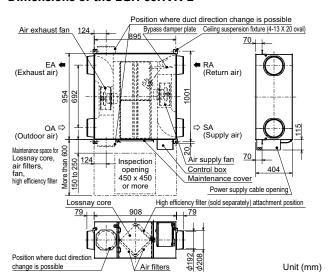
\*For the specification at the other frequency contact your dealer.

\*Use this unit with static pressure 240Pa or less at Fan speed 4. Otherwise the noise level might be large. (Only LGH-80RVX-E)

#### Characteristic Curve of the LGH-65RVX-E

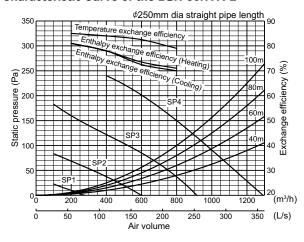


#### Dimensions of the LGH-65RVX-E

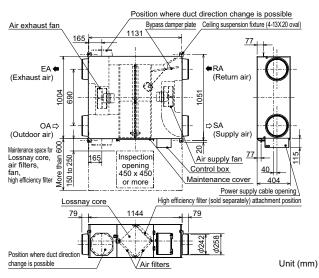


• Certain ratings and specifications may change due to product improvements or modifications.

#### Characteristic Curve of the LGH-80RVX-E



#### Dimensions of the LGH-80RVX-E



• Refer to the product manuals for safety precautions.

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

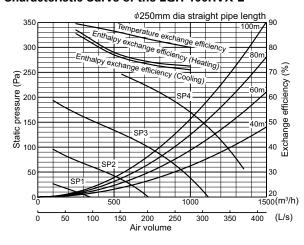
#### Specifications / Dimensions

#### LGH-100/150RVX-E

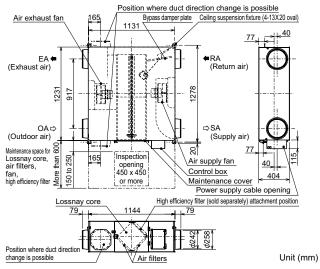
Model				L	GH-10	0RVX-	E					L	GH-15	0RVX-	E		
Electrical power supply				220-24	0V/50H	lz, 220	V/60Hz					220-24	0V/50H	lz, 220	V/60Hz		
Ventilation mode		Hea	at recov	ery mo	ode		Bypass	mode		Hea	at reco	very mo	ode		Bypass	mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		2.50	1.20	0.50	0.17	2.50	1.20	0.51	0.19	3.71	1.75	0.70	0.29	3.85	1.78	0.78	0.30
Input power (W)		420	200	75	21	420	200	75	23	670	311	123	38	698	311	124	44
r volume	(m³/h)	1000	750	500	250	1000	750	500	250	1500	1125	750	375	1500	1125	750	375
All Volume	(L/s)	278	208	139	69	278	208	139	69	417	313	208	104	417	313	208	104
External static pressure (Pa)		170	96	43	11	170	96	43	11	175	98	44	11	175	98	44	11
Temperature exchange efficiency (%)		80.0	83.0	86.5	89.5	_	_	_	_	80.0	82.5	84.0	85.0	_	_	_	_
Enthalpy exchange efficiency (%)	Heating	72.5	74.0	78.0	87.0	_	_	_	_	72.0	73.5	78.0	81.0	_	_	_	_
Littialpy exchange efficiency (76)	Cooling	71.0	73.0	77.0	85.5	_	_	_	_	70.5	72.5	78.0	81.0	_	_	_	_
Noise (dB) (Measured at 1.5m under the of unit in an anechoeic characteristics)		37.0	31.0	23.0	18.0	38.0	32.0	24.0	18.0	39.0	32.0	24.0	18.0	40.5	33.0	26.0	18.0
Weight (kg)					5	4							9	8			

<sup>\*</sup>The Air outlets noise (45 angle,1.5meters in front of the unit) is about 21dB (LGH-100RVX-E) / 22dB (LGH-150RVX-E) 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.

#### Characteristic Curve of the LGH-100RVX-E

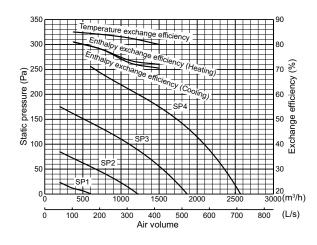


#### Dimensions of the LGH-100RVX-E

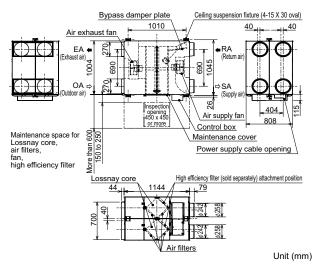


Certain ratings and specifications may change due to product improvements or modifications.

#### Characteristic Curve of the LGH-150RVX-E



#### Dimensions of the LGH-150RVX-E



• Refer to the product manuals for safety precautions

<sup>\*</sup>For the specification at the other frequency contact your dealer.

\*Use this unit between static pressure 60Pa and 240Pa at Fan speed 4. Otherwise the motor protection may work and reduce its output or the noise level might be larger. (Only LGH-100RVX-E)

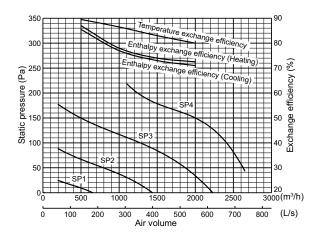
\*Use this unit with static pressure 250Pa or less at Fan speed 4. Otherwise the noise level might be larger (Only LGH-150RVX-E)

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

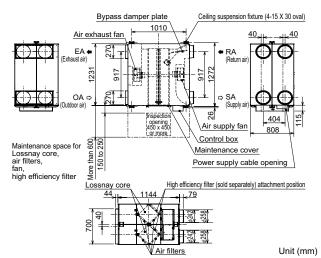
#### LGH-200RVX-E

Model					LGH-20	0RVX-E			
Electrical power supply					220-240V/50H	tz, 220V/60Hz			
Ventilation mode			Heat reco	very 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 (%)	Heating	72.5	74.0	78.0	87.0	_	_	_	-
Entrialpy exchange entriency (76)	Cooling	71.0	73.0	77.0	85.5	_	_	_	-
Noise (dB) (Measured at 1.5m under the of unit in an anechoeic cha		40.0	36.0	28.0	18.0	41.0	36.0	27.0	19.0
Weight (kg)					1	10			

#### **Characteristic Curve**



#### **Dimensions**



- Certain ratings and specifications may change due to product improvements or modifications.
   Refer to the product manuals for safety precautions.

<sup>\*</sup>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 speed 4. Otherwise the motor protection may work and reduce its output or the noise level might be large.

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

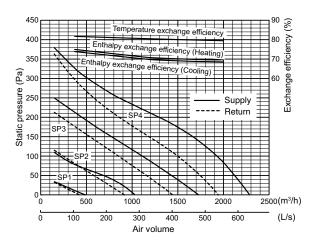
#### Specifications / Dimensions

#### LGH-150/200RVXT-E

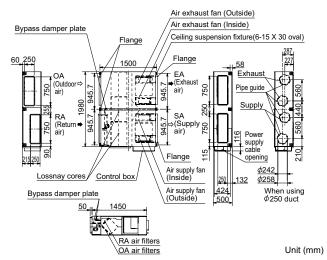
Model		LGH-150RVXT-E						LGH-200RVXT-E									
Electrical power supply		220-240V/50Hz, 220V/60Hz						220-240V/50Hz, 220V/60Hz									
Ventilation mode		Heat recovery mode					Bypass mode			Heat recovery mode			Bypass mode				
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		4.30	2.40	1.10	0.36	3.40	1.80	0.77	0.31	5.40	2.70	1.10	0.39	5.00	2.20	0.85	0.34
Input power (W)		792	421	176	48	625	334	134	37	1000	494	197	56	916	407	150	45
Air volume	(m³/h)	1500	1125	750	375	1500	1125	750	375	2000	1500	1000	500	2000	1500	1000	500
	(L/s)	417	313	208	104	417	313	208	104	556	417	278	139	556	417	278	139
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11	175	98	44	11	175	98	44	11
	Return	100	56	25	6	100	56	25	6	100	56	25	6	100	56	25	6
Temperature exchange efficiency (%)		80.0	80.5	81.0	81.5	_	_	_	_	80.0	81.0	82.5	84.0	_	_	_	_
Heating		70.0	71.0	73.0	75.0	_	_	_	_	72.5	73.5	77.0	83.0	_	_	_	_
Enthalpy exchange efficiency (%)	Cooling	69.0	70.0	72.0	74.0	_	_	_	_	70.0	71.0	74.5	80.5	_	_	_	_
Noise (dB)		39.5	35.5	29.5	22.0	39.0	33.0	26.5	20.5	39.5	35.5	28.0	22.0	40.5	34.5	27.0	20.5
Weight (kg)		156				159											

<sup>\*</sup>The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.

#### Characteristic Curve of the LGH-150RVXT-E

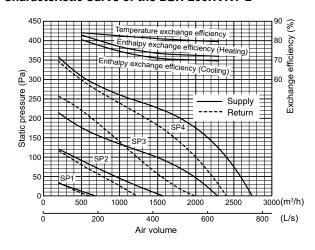


#### Dimensions of the LGH-150RVXT-E

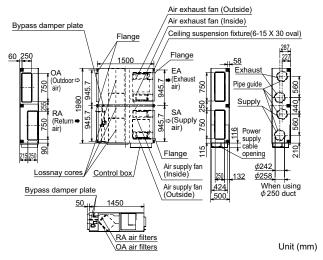


• Certain ratings and specifications may change due to product improvements or modifications.

#### Characteristic Curve of the LGH-200RVXT-E



#### Dimensions of the LGH-200RVXT-E



• Refer to the product manuals for safety precautions.

<sup>\*</sup>For the specification at the other frequency contact your dealer.

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

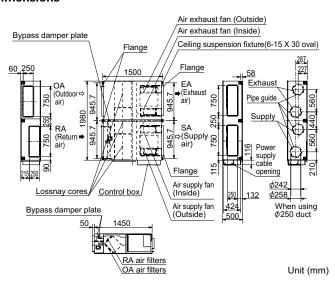
#### LGH-250RVXT-E

Model	LGH-250RVXT-E									
Electrical power supply	220-240V/50Hz, 220V/60Hz									
Ventilation mode		Heat reco	very mode		Bypass mode					
Fan speed	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1		
Running current (A)		7.60	3.60	1.40	0.57	6.90	3.10	1.30	0.49	
Input power (W)		1446	687	244	82	1298	587	212	69	
Air volume	(m³/h)	2500	1875	1250	625	2500	1875	1250	625	
	(L/s)	694	521	347	174	694	521	347	174	
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11	
	Return	100	56	25	6	100	56	25	6	
Temperature exchange efficiency (%)		77.0	79.0	80.5	82.5	_	_	_	_	
Enthalpy exchange efficiency (%)	Heating	68.0	71.5	74.0	79.0	_	_	_	_	
	Cooling	65.5	69.0	71.5	76.5	_	_	_	_	
Noise (dB)		43.0	39.0	32.0	24.0	44.0	38.5	31.0	22.5	
Weight (kg)	198									

#### **Characteristic Curve**

#### 400 350 900 (Pa Exchange cy (Cooling) Static pressure (F Supply ---- Return 100 4000(m³/h) 1000 (L/s) 0 200 400 600 Air volume 800 1000

#### **Dimensions**



- Certain ratings and specifications may change due to product improvements or modifications.
   Refer to the product manuals for safety precautions.

<sup>\*</sup>The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.

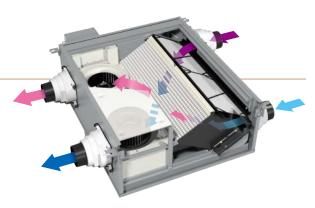
\*For the specification at the other frequency contact your dealer.

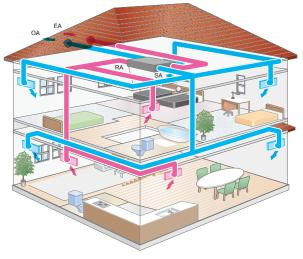
\*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

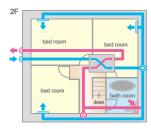
#### Residential Use Lossnay

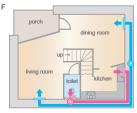
The energy saved by using Lossnay contributes directly towards lowering heating or cooling expenses.

The sensible heat exchanger type is effective for decreasing excess humidity in the winter.









#### **Smart Ventilation**

#### More comfortable!

- Minimizes temperature difference
- Shuts out outside noise
- Filter cuts pollen and dust for fresh clean air



#### More energy saving!

- 86% maximum exchange efficiency
- Reduces load on air conditioning (heating and cooling)
- Equals saving on your energy costs



#### **Product Merits**

#### **Newly Developed Heat Exchanger**

- During ventilation, Lossnay recovers warmth in the winter and keeps air cool in the summer.
- Reducing heating and cooling loads with a maximum exchange efficiency of 86%.



#### Quiet

• At an ultra quiet 14dB, it is the quietest product in its class.

**Energy Efficient** 

input power)

• The highest energy saving

• Saves heating and cooling costs by minimizing energy loss occuring during ventila-

in its class. (8.5W minimum

• Blocks outside noise for a more comfortable environment.



#### **New Diamond Heat Exchanger** Due to the diamond design, air passages are longer and help

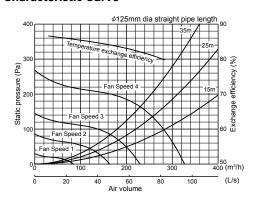




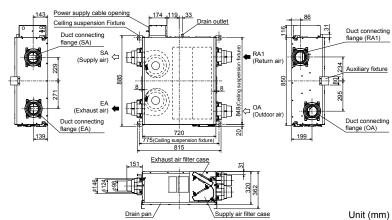
#### Centralized Ventilation System

Model		VL-220CZGV-E							
Electrical power supply		220-240V/50Hz, 220V/60Hz							
Ventilation mode		Heat recovery mode							
Fan speed		Fan speed 4	Fan speed 3	Fan speed 2	Fan speed 1				
Running current (A)		0.60	0.29	0.18	0.11				
Input power (W)		80	35	18.5	8.5				
Air volume	(m³/h)	230	165	120	65				
All volume	(L/s)	64	46	33	18				
External static pressure (Pa)		164	84	44	13				
Temperature exchange efficiency (%)		82.0	84.0	85.0	86.0				
Noise (dB)		31.0	25.0	19.0	14.0				
Weight (kg)		31							

#### **Characteristic Curve**



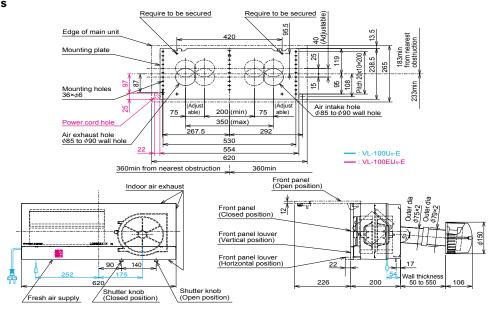
#### **Dimensions**



#### **Decentralized Ventilation System**

Model		VL-100(E)U₅-E									
Electrical power supply	220V	220V/50Hz		//50Hz	240V/50Hz		220V/60Hz				
Fan speed	High	Low	High	Low	High	Low	High	Low			
Air volume (m³/h)	100	55	105	60	106	61	103	57			
Power consumption (W)	30	13	31	15	34	17	34	17			
Temperature exchange efficiency (%)	73	80	73	80	72	79	73	80			
Noise (dB)	36.5	24	37	25	38	27	38	25			
Weight (kg)		7.5									

#### **Dimensions**



Unit (mm)