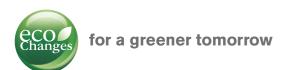


- Do not install indoor units in areas (e.g. mobile phone base stations) where the emission of VOCs such as phthalate compounds and formaldehyde is known to be high as this may result in a chemical reaction.
- Our air-conditioning equipments and heat pumps contain a fluorinated greenhouse gas, R410A (GWP: 2088) or R32 (GWP: 675). *These GWP values are based on Regulation (EU) No.517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP: 1975), R32 (GWP: 550)
- When installing or relocating or servicing our air-conditioning equipment, use only the specified refrigerant (R410A or R32) to charge the refrigerant lines.

Do not mix it with any other refrigerant and do not allow air to remain in the lines.

If air is mixed with the refrigerant, then it can be the cause of abnormal high pressure in the refrigerant lines, and may result in an explosion and other hazards.

The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.



Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management.

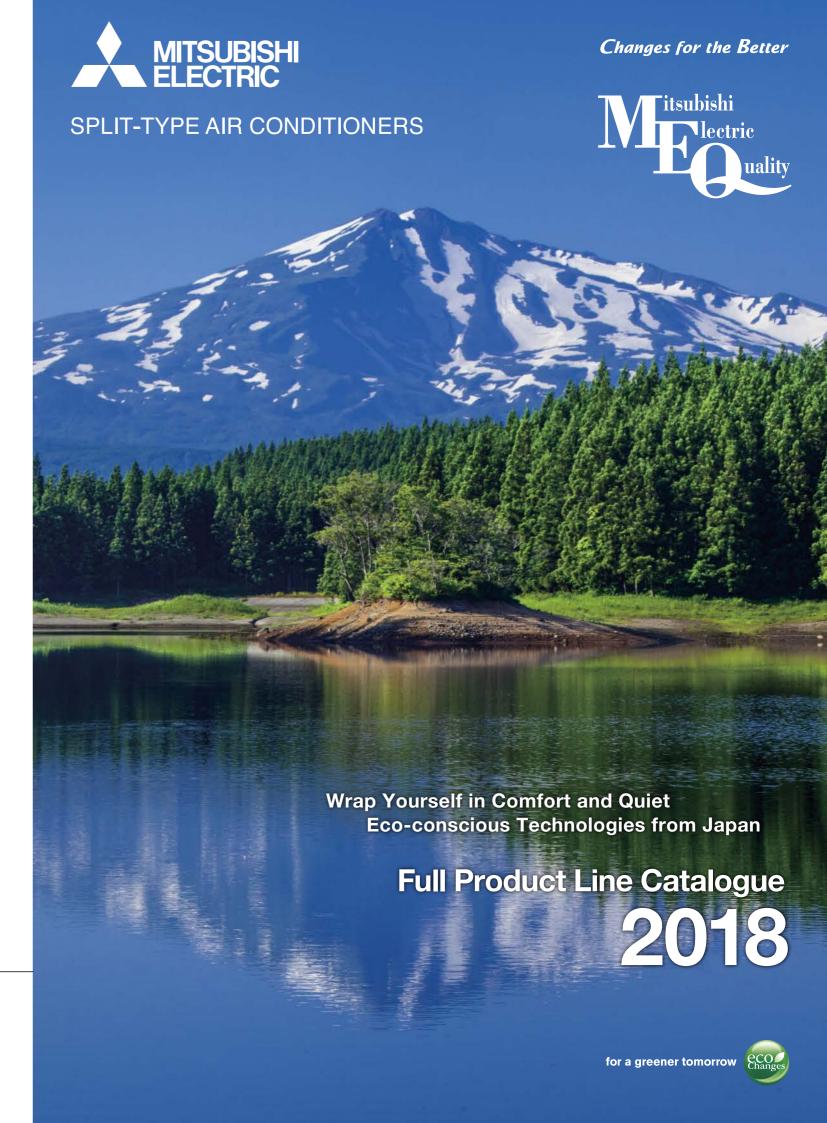
Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

MITSUBISHI ELECTRIC CORPORATION

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







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

Core Environmental Policy

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

Environmental Vision 2021

Making Positive Contributions to the Earth and its People through Technology and Action

Preventing Global Warming

- Creating a Recycling-Based Society
- Reduce CO₂ emissions from product usage by 30% Reduce total CO₂ emissions from production by 30%
- Aim to reduce CO₂ emissions from power generation
- Reduce, reuse and recycle "3Rs" products reduce resources used by 30%
- Zero emissions from manufacturing reducing the direct landfill of waste to zero

Ensuring Harmony with Nature Fostering Environmental Awarenes

The New Refrigerant R32

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

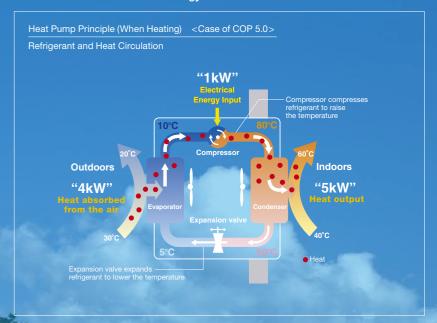
Comparison of Global Warming **Potential**

2088 R410A

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.



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

d Far Th	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.

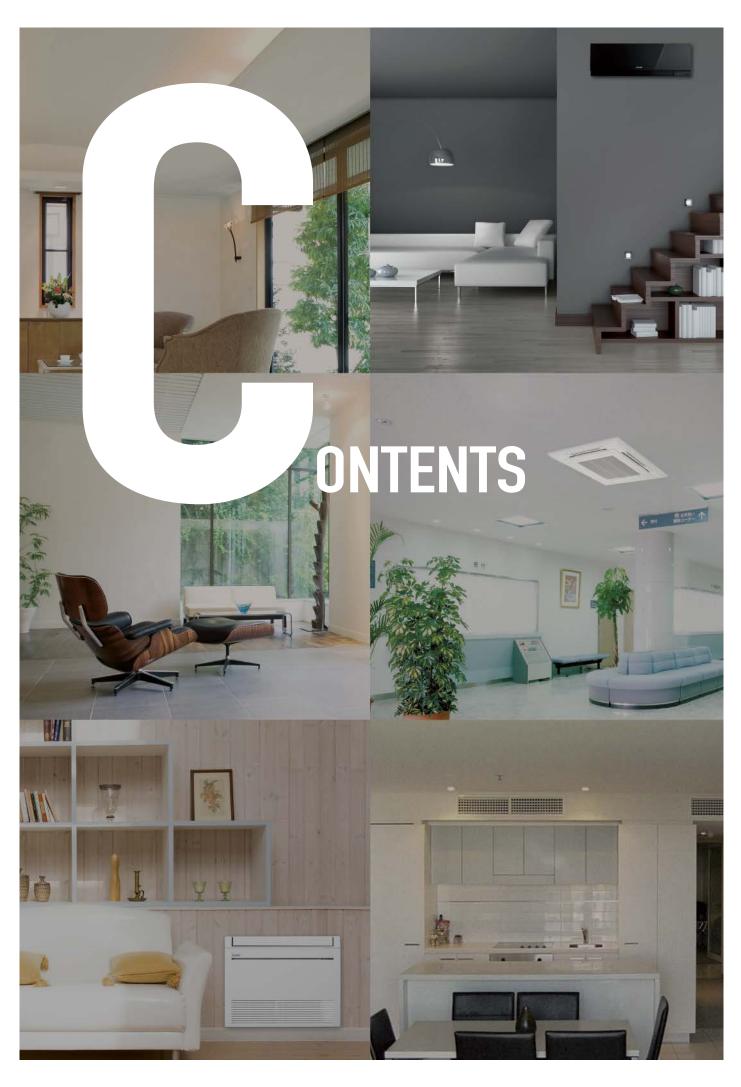
Creating a Recycling-Based Society

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

ves: The Waste Electrical and Electronic Equipment (WEEE) Directive is a recycling directive for this the Restrictions of Hazardous Substances (RoHS) Directive is an EU directive restricting the use of six

Ensuring Harmony with Nature / Fostering Environmental Awareness

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



Air Conditioners

New releases in 2018	005-006
LINE-UP	007-010
M SERIES	011-046
S SERIES	047-054
P SERIES	055-088
MULTI SPLIT SERIES	089-104
POWERFUL HEATING SERIES	105-122
AIR-TO-WATER	
FEATURES & SPECIFICATIONS	123-150
Air Conditioners	
NEW ECODESIGN DIRECTIVE	
INVERTER TECHNOLOGIES	153-154
COMFORT	155-158
CONVENIENCE	159-160
INSTALLATION & MAINTENANCE	161-162
SYSTEM CONTROL	163-164
CONTROL TECHNOLOGIES	165-170
SYSTEM CONTROL	171-172
FUNCTION LIST	173-178
OPTIONAL PARTS	179-188
EXTERNAL DIMENSIONS	189-204
PIPING INSTALLATION	205-212
M/S/P/Multi/Zubadan/ATW	
CONDITIONS FOR SPECIFICATION	213
HOW TO READ A MODEL NAME	213
REFRIGERANT AMOUNT	214
R32 REFRIGERANT	215-216
LOSSNAY SYSTEM	
FEATURES & SPECIFICATIONS	

release

MSZ-A SERIES





MSZ-AP15/20VF P.19

MSZ-AP/25/35/42/50VG P.19

MLZ-KP SERIES





MLZ-KP25/35/50VF P.41

P SERIES Eco-conscious Power Inverter









PEAD-M35/50/60/71/100/125/140JA(L) P.67

R32 R410A



PUZ-ZM35/50VKA P.57









PKA-M35/50HA(L) PKA-M60/71/100KA(L)



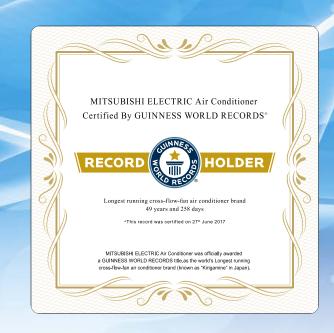
PUZ-ZM60/71VHA P.57





PCA-M35/50/60/71/100/125/140KA P.79

P.**74**



P SERIES Standard Inverter

R410A



MXZ SERIES

R32

PUHZ-P100/125/140V(Y)KA P.58



MXZ-2F33/42VF MXZ-2F53VF(H) P.91

MXZ-3F54/68VF **MXZ-4F72VF P.91**

PUMY SERIES

(R410A)



ATW SERIES

PUMY-SP112/125/140V(Y)KM(-BS) P.97



PUHZ-SHW80/112V(Y)AA P.127 PUHZ-SW75/100V(Y)AA

LINE-UP

M SERIES

Model Nam	00	1.5kW	1.8kW	2.0kW	2.2kW	2.5kW	3.5kW	4.2kW	5.0kW	6.0kW	7.1kW	Page
wiouei wan	IIC	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	, age
	MSZ-L Series R32 R410A *1		W-V-R-B Multi connection only			WVRB SINGLE	W-V-R-B SINGLE		WVRB SINGLE	W-V-R-B SINGLE		13
	MSZ-A Series MSZ-AP15-20	Multi connection only		Multi connection only								19
	R410A *1 MSZ-AP25-50VG					SINGLE	SINGLE	SINGLE	SINGLE			19
	MSZ-F Series R410A					SINGLE	SINGLE		SINGLE			25
	MSZ-E Series (R32)*2 (R410A)		W-S-B Multi connection only		W-S-B Multi connection only	WSB SINGLE H	WS-B SINGLE H	W-S-B SINGLE	WSB SINGLE			27
Wall- mounted	MSZ-S Series MSZ-SF15/20V	Multi connection only		Multi connection only								29
mounted	MSZ-SF25/35/42/50VE3					SINGLE	SINGLE	SINGLE	SINGLE			29
	MSZ-G Series	W. 1								SINGLE	SINGLE	29
	MSZ-W Series					SINGLE	SINGLE					33
	MSZ-D Series R410A					SINGLE	SINGLE					35
	MSZ-H Series MSZ-HJ60/7 R410A MSZ-HJ25/35/50					SINGLE	SINGLE		SINGLE	SINGLE	SINGLE	37
Compact floor	MFZ Series					SINGLE	SINGLE		SINGLE			39
1-way cassette	MLZ Series R32 R410A					Multi connection only	Multi connection only		Multi connection only			41



^{*2:} R32 is for MXZ connection.

INVERTER Models

The state of the s													
	Model Name 2 x 2 cassette R32 R410A		1.5kW	2.5kW	3.5kW	5.0kW	6.0kW	7.1kW	10.0kW	12.5kW	14.0kW	Page	
			1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1- & 3-phase	1- & 3-phase	1- & 3-phase		
			Multi connection only	SINGLE	SINGLE	SINGLE	SINGLE	*1 TWIN	*1 TWIN *1 TRIPLE	TWIN *1 TRIPLE *1 QUARDRUPLE	*1 TRIPLE *1 QUARDRUPLE	49	
	Compact ceiling- concealed	SEZ Series R32 R410A			*2 SINGLE	*2 SINGLE	*2 SINGLE	*2 SINGLE	*2 SINGLE				53

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

^{*1} Only for R410A connection
*2 Indoor units are available in two types; with or without the wireless remote controller.

TWIN 1 outdoor unit & 2 indoor units

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

P SERIES

Eco-conscious Power Inverter Models

Model Name		3.5kW	5.0kW	6.0kW	7.1kW	10.0kW	12.5kW	14.0kW	Page
Wiodel Name		1-phase	1-phase	1-phase	1-phase	1- & 3-phase	1- & 3-phase	1- & 3-phase	гауе
4-way cassette	PLA Series R32 R410A	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE TWIN TRIPLE	59
Ceiling- concealed	PEAD Series R32 R410A	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE TWIN TRIPLE	67
Wall- mounted	PKA Series R32 R410A	SINGLE	SINGLE	SINGLE	SINGLE TWIN	SINGLE	TWIN	TWIN TRIPLE	74
Ceiling- suspended	PCA-KA Series R32 R410A	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	79

POWER INVERTER Models / STANDARD INVERTER Models

Ma dal Nassa		3.5kW	5.0kW	6.0kW	7.1kW	10.0kW	12.5kW	14.0kW	20.0kW	25.0kW	Davis
Model Name		1-phase	1-phase	1-phase	1-phase	1- & 3-phase	1- & 3-phase	1- & 3-phase	3-phase	3-phase	Page
4-way cassette	PLA Series R410A	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	59
Ceiling-	PEAD Series	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	67
concealed	PEA Series R410A								SINGLE	SINGLE	72
Wall- mounted	PKA Series					SINGLE	TWIN	TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TRIPLE QUADRUPLE	74
Ceiling- suspended	PCA-KA Series	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	79
for Professional Kitchen	PCA-HA Series* R410A				SINGLE			TWIN		TRIPLE	80
Floor- standing	PSA Series					SINGLE	SINGLE	SINGLE	TWIN	TWIN	86

* Power Inverter Models only

LINE-UP

MXZ SERIES

INVERTER Models

Model Name	Capacity Class	Page
up to 2 indoor units MXZ-2F33VF	3.3kW <1-phase>	91
up to 2 indoor units MXZ-2F42VF	4.2kW <1-phase>	91
up to 2 indoor units MXZ-2F53VF(H)	5.3kW <1-phase>	91
up to 3 indoor units MXZ-3F54VF	5.4kW <1-phase>	91
up to 3 indoor units MXZ-3F68VF	6.8kW <1-phase>	91
up to 4 indoor units MXZ-4F72VF	7.2kW <1-phase>	91

Model Name		Capacity Class	Page
up to 2 indoor units MXZ-2D33VA R410A		3.3kW <1-phase>	93
up to 2 indoor units MXZ-2D42VA2 R410A		4.2kW <1-phase>	93
up to 2 indoor units MXZ-2D53VA (H)2 R410A		5.3kW <1-phase>	93
up to 3 indoor units MXZ-3E54VA R410A		5.4kW <1-phase>	93
up to 3 indoor units MXZ-3E68VA R410A	0	6.8kW <1-phase>	93
up to 4 indoor units MXZ-4E72VA R410A		7.2kW <1-phase>	93
up to 4 indoor units MXZ-4E83VA R410A		8.3kW <1-phase>	93
up to 5 indoor units MXZ-5E102VA	0	10.2kW <1-phase>	93
up to 6 indoor units MXZ-6D122VA	0	12.2kW <1-phase>	93
up to 2 indoor units MXZ-2DM40VA R410A	0	4.0kW <1-phase>	95
up to 3 indoor units MXZ-3DM50VA R410A		5.0kW <1-phase>	95

PUMY SERIES

INVERTER Models

Model Name	12.5kW 1 & 3-phase	14.0kW 1 & 3-phase	15.5kW 1 & 3-phase	22.4kW 3-phase	- Page
PUMY-SP R410A	✓	✓	✓	o pinate	97
PUMY-P R410A	1	✓	1	√	99

QUADRUPLE 1 outdoor unit & 4 indoor units



TRIPLE 1 outdoor unit & 3 indoor units

POWERFUL HEATING SERIES

Model Nan	ne		2.5kW	3.5kW	5.0kW	5.3kW	8.3kW	10.0kW	12.5kW	Page
			1-phase	1-phase	1-phase	1-phase	1-phase	1- & 3-phase	3-phase	
Wall-mounted MSZ-F VEHZ Series R410A			SINGLE	SINGLE	SINGLE					107
		SINGLE	SINGLE	SINGLE					107	
Compact floor R410A		SINGLE	SINGLE	SINGLE					111	
	4-way cassette	PLA Series R32 R410A						SINGLE	SINGLE	114
ZUBADAN ZUBADAN	Ceiling-concealed	PEAD Series R32 R410A						SINGLE	SINGLE	116
	Wall-mounted	PKA Series R32 R410A						SINGLE		117
MXZ-E VAHZ Series Multi split R410A					2PORT H	4PORT H			118	

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

AIR TO WATER SERIES



		OUTDOOR UNIT	
ackaged type	Small capacity (Under 5kW)*	Medium capacity (7.5kW-14kW)*	Large capacity (≥16kW)*
ZUBADAN		PUNZ-HWI12/140	
POWER INVERTER	PU/IZWS0	Coming soo	
Split type	Small capacity (Under 5kW)*	Medium capacity (7.5kW-14kW)*	Large capacity (≥16kW)*
ZUBADAN Item Generation		PUHZ-SHW80/12/AA PUHZ-SHW80/12/140	Put2:SHW230
POWER INVERTER	PURZ:SW0	PUHZ-SW75 PUHZ-SW75/DGAA PUHZ-SW700120	PULESWIGOZOO
Eco Inverter	SUHZ-SW45		
ATA/ATW ybrid system	Small capacity (Under 5kW)*	Medium capacity (7.5kW-14kW)*	Large capacity (≥16kW)*
Mr.SLIM+		PU62:FRP71	
PUMY + ecodan		PUMN-P112/IZS/MAO	





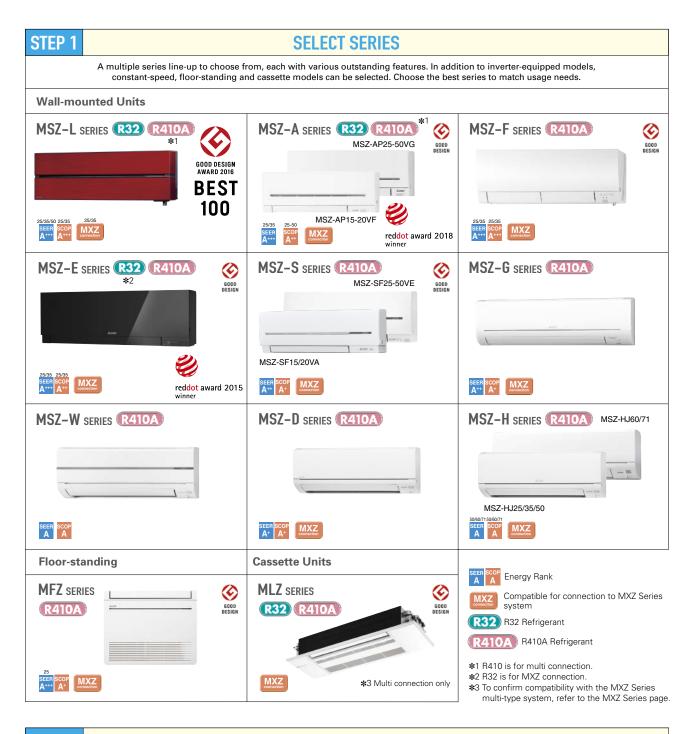






SELECTION

Choose the model that best matches room conditions.





SELECT OUTDOOR UNIT

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

Heater Installed MUZ-AP25/35/42/50VGH MUZ-EF25/35VEH

MUZ-SF25/35/42/50VEH



MUZ-I N25/35VG

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



MUZ-LN50VG

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-L SERIES





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



Luminous and Luxurious Design

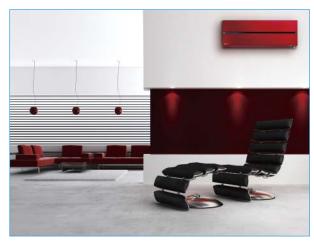
Natural White, Pearl White, Ruby Red, and Onyx Black. LN Series indoor units are available in four colours to match various lifestyles. The appearance of the indoor unit differs depending on the lighting in the room, attracting the attention of everyone that enters the room.



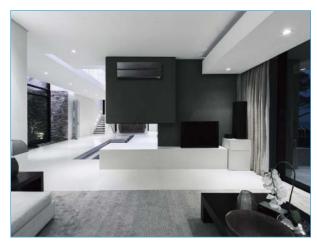
Master craftsmanship painting technology has resulted in a refined design, giving the finish deep colour and a premium quality feel.



Pearl White blends in with any interior.



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



Onyx Black matches darker interiors, creating a comfortable environment.

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



Pearl White





Onyx Black

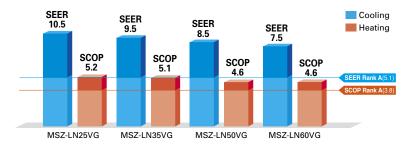
High Energy Efficiency





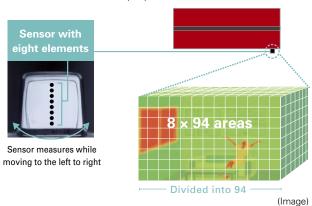


Optimum cooling/heating performance is another feature for the LN series. Models from capacities 25 to 50 have achieved the "Rank A+++" for SEER, and models for capacities 25 and 35 have achieved the "Rank A+++" for SCOP as well.



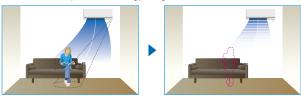
3D i-see Sensor

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



No occupancy energy-saving mode

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



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

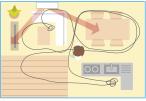
Indirect Airflow

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



Even Airflow *LN Series only

Normal swing mode



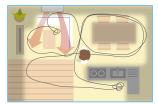
The airflow is distributed equally throughout

Direct Airflow

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



Even airflow mode



The 3D i-see sensor memorizes human move-

No occupany Auto-OFF mode *LN Series only

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

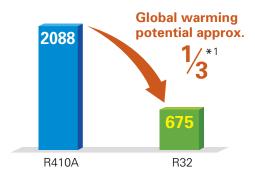




R32 Refrigerant

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

Comparison of Global Warming Potential



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

Plasma Quad Plus

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

Bacteria



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

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

Viruses



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

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

Molds



Test results have confirmed that Plasma Quad Plus neutralizes 99% of mold in 135 minutes in a 25m³ test space.

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

Allergens



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

<Test No.> ITEA Report No. T1606028

PM2.5



Test results have confirmed that Plasma Quad Plus removes 99% of PM2.5 in 145 minutes in a 28m³ test space.

<n-company investigation>

Dust



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

<Test No.> ITEA Report No. T1606028

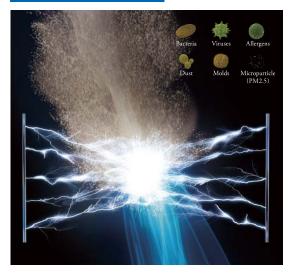
Model	Name	Method	Bacteria	Viruses	Molds	Allergens	Dust	PM2.5*
FH Series	Plasma Quad	One-Stage Plasma	А	А	В	В	С	
LN Series	Plasma Quad Plus	Two-Stage Plasma	А	А	А	А	А	А

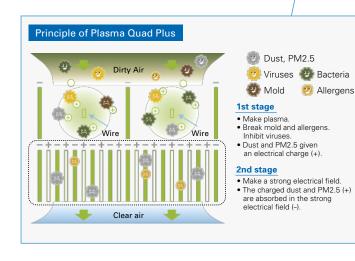
- A: Highly effective
- B: Effective
- C: Partially effective

*PM2.5:

Particles smaller than 2.5µm

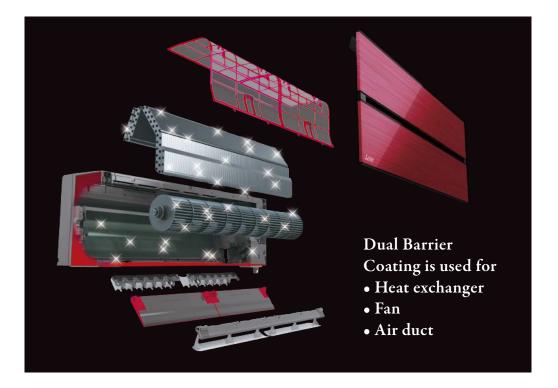
Image of Plasma Quad Plus





Dual Barrier Coating

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



State-of-the-art coating technology

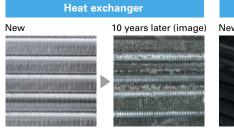
Dirt is generally classified into two groups: hydrophilic dirt such as fiber dust and sand dust, and hydrophobic dirt such as oil and cigarette smoke. Mitsubishi Electric's dual barrier coating works as a two-barrier coating with blended "fluorine particles" that prevent hydrophilic dirt penetration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



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



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





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

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

Double Flap

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

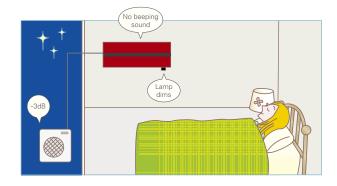




Night Mode

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

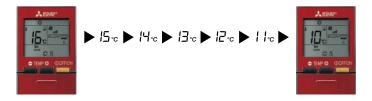
- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will drop to 3dB lower than the rated operating noise specification.



10°C Heating

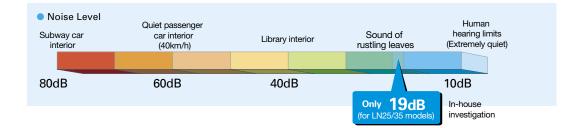
During heating operation, the temperature can be set in 1°C increments down to 10°C.

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



Quiet Operation

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



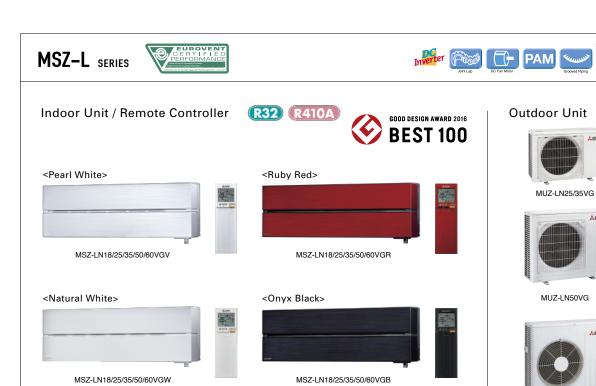
Built-in Wi-Fi Interface

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

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



^{*}The cooling/heating capacity may drop.



Туре						Inverter Heat Pump		
Indoor Ur	nit			MSZ-LN18VG (W) (V) (R) (B)	MSZ-LN25VG (W) (V) (R) (B)	MSZ-LN35VG (W) (V) (R) (B)	MSZ-LN50VG (W) (V) (R) (B)	MSZ-LN60VG (W) (V) (R) (B)
Outdoor I				for MXZ connection	MUZ-LN25VG	MUZ-LN35VG	MUZ-LN50VG	MUZ-LN60VG
Refrigera						ngle: R32 ⁽¹⁾ / Multi: R410A or R32		
Power	Source					Outdoor Power Supply	-	
Supply	Outdoor (V / Ph	ase / Hz)				230 / Single / 50		
	Design load		kW	-	2.5	3.5	5.0	6.1
	Annual electricity	consumption (*2)	kWh/a		83	128	205	285
	SEER (*4)		1441100		10.5	9.5	8.5	7.5
Cooling		Energy efficiency class			A+++	A+++	A+++	A++
g		Rated	kW		2.5	3.5	5.0	6.1
	Capacity	Min-Max	kW		1.0 - 3.5	0.8 - 4.0	1.0 - 6.0	1.4 - 6.9
	Total Input	Rated	kW		0.485	0.820	1,380	1.790
	Design load	nateu	kW		3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	6.0(-10°C)
	Design load	at reference design temperature	_		3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	6.0(-10°C)
	Declared	at bivalent temperature	kW	-	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	6.0(-10°C)
	Capacity	at operation limit temperature	kW		2.5(-15°C)	3.2(-15°C)	4.2(-15°C)	6.0(-10°C)
	Back up heating	and the same of the same of	kW		0.0(-10°C)	0.0(-10°C)	4.2(-13°C) 0.0(-10°C)	0.0(-10°C)
Heating Average	Annual electricity		kWh/a		794	974	1369	1826
Season)(*5)	SCOP (*4)	consumption	KVVII/a	-	5.2	5.1	4.6	4.6
,	SCOP	Energy efficiency class		-	0.2 A+++	A+++	4.0 A++	4.0 A++
		Rated	kW		3.2	4.0	6.0	6.8
	Capacity		kW	-		· ·		
		Min-Max	kW	-	0.8 - 5.4	1.0 - 6.3	1.0 - 8.2	1.8 - 9.3
	Total Input	Rated		-	0.580	0.800	1.480	1.810
Operatin	g Current (Max)	Rated	A kW	- 0.000	7.1 0.029	9.9 0.029	13.9	15.2 0.040
	Input		_	0.029	0.029	0.029	0.034	
	Operating Current(Max) Dimensions H*W*D		Α	0.3				0.4
	Dimensions	H-M-D	mm	307-890-233	307-890-233	307-890-233	307-890-233	307-890-233
Indoor	Weight	lo r	kg	15.5	15.5	15.5	15.5	15.5
Unit	Air Volume (SLo-Lo- Mid-Hi-SHi ^(*3) (Dry/Wet))	Cooling	m³/min	4.3 - 5.8 - 7.1 - 8.8 - 11.9	4.3 - 5.8 - 7.1 - 8.8 - 11.9	4.3 - 5.8 - 7.1 - 8.8 - 12.8	5.7 - 7.6 - 8.8 - 10.6 - 13.9	7.1 - 8.8 - 10.6 - 12.7 - 15.
		Heating	m³/min	4.0 - 5.7 - 7.1 - 8.5 - 14.4	4.0 - 5.7 - 7.1 - 8.5 - 14.4	4.3 - 5.7 - 7.1 - 8.5 - 13.7	5.4 - 6.4 - 8.5 - 10.7 - 15.7	6.6 - 9.5 - 11.5 - 13.6 - 15.
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi ^(*3))	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	27 - 31 - 35 - 39 - 46	29 - 37 - 41 - 45 - 49
	, ,	Heating	dB(A)	19 - 24 - 29 - 36 - 45	19 - 24 - 29 - 36 - 45	19 - 24 - 29 - 36 - 45	25 - 29 - 34 - 39 - 47	29 - 37 - 41 - 45 - 49
	Sound Level (PWL)	Cooling	dB(A)	58	58	58	60	65
	Dimensions	H*W*D	mm	-	550-800-285	550-800-285	714-800-285	880-840-330
	Weight	To "	kg		35	35	40	55
	Air Volume	Cooling	m³/min	-	31.4	31.4	40.0	50.1
Outdoor		Heating	m³/min		26.6	31.4	40.5	51.3
Jnit	Sound Level (SPL)	Cooling	dB(A)		46	49	51	55
	` ′	Heating	dB(A)	=	49	50	54	55
	Sound Level (PWL)	Cooling	dB(A)	=	60	61	64	65
	Operating Curre	ent (Max)	А	=	6.8	9.6	13.5	14.8
	Breaker Size		Α	_	10	10	16	16
Ext.	Diameter	Liquid/Gas	mm		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	30
	Max.Height	Out-In	m	-	12	12	12	15
	ed Operating	Cooling	°C	_	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
Range (C	Outdoor)	Heating	°C	=	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 638 seasmelte the product yourself or product yourself and always ask a professional. The GWP of 182 is 675 in the IPCC 4th Assessment Report.

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

(*3) 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 63 for heating (warmer season) specifications.

R32

MUZ-LN60VG



MSZ-A





MSZ-AP25/35/42/50VG

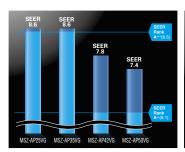
reddot award 2018

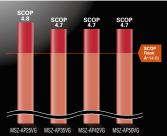
Introducing a compact and stylish indoor unit with various capacity, designed to match number of rooms. High performance indoor and outdoor units enabled to achieve "Rank A $^{+++}$ " for SEER. *MSZ-AP25/35VG

High energy saving



All models in the series, from the low-capacity 25 to the high-capacity 50, have achieved either the "Rank A+++" or "Rank A++" for SEER and SCOP as energy-savings rating. Our air conditioners are contributing to reduce energy consumption in a wide range.







Compact and stylish

15/20 class are for multi-systems and 25-50 class are introduced as single-split and multi-systems. From small rooms to living rooms, it is possible to coordinate residences with a unified design.







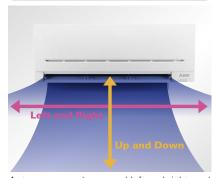


Evolved comfortable convenience function

Horizontal Airflow

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

Auto Vane Control



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

The Function

















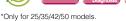








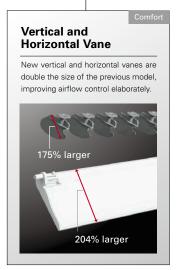




19

High performance and compact size are realised by refining all parts









"Weekly Timer"



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

■ Example Operation Pattern (Winter/Heating mode)

	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
				Automatically change	s to high-power opera	tion at wake-up time		
8:00								
10:00	055		055	055	055	055	011 4000	011 4000
15:00	OFF		OFF	OFF	OFF	OFF	ON 18°C Midday is warmer,	ON 18°C
14:00			Automatic	ally turned off during w	ork hours		so the temperature	
(P:00								
18:00	ON 20°	°c c	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
20:00		Α	utomatically turi	ns on, synchronized wit	th arrival at home		Automatically raises ten	pperature setting to
55:00			, , , , , , , , , , , , , , , , , , , ,				match time when outsit	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
	ON 10			atically lowers temperat				014 18 0
			71001110	and the second s				

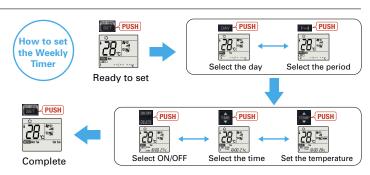
Settings

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

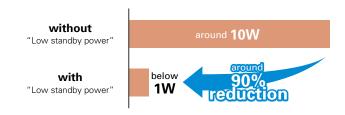




- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired 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. (only for 15/20 models)

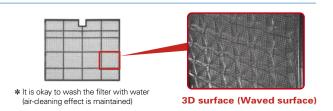
Low Standby Power

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



Air Purifying Filter

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

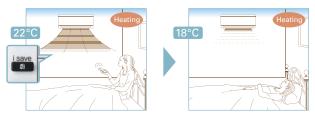


(MSZ-AP25/35/42/50)

"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. (only for 15/20 models)

Outdoor Units for Cold Region

(MSZ-AP25/35/42/50)

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



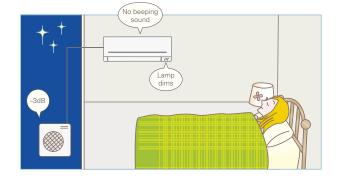
Night Mode

(MSZ-AP25/35/42/50)



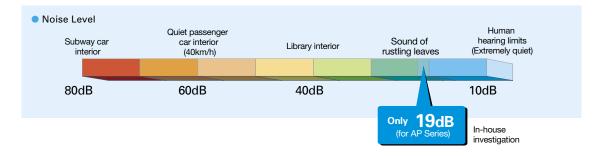
When Night Mode is activated using the wireless remote controller, air conditioner operation will switch to the following settings.

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



Quiet Operation

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



Built-in Wi-Fi Interface

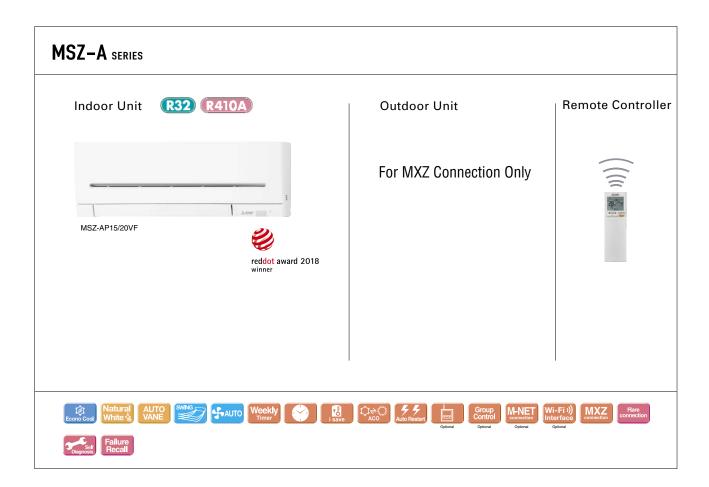
(MSZ-AP25/35/42/50VGK)



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

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

^{*}The cooling/heating capacity may drop.

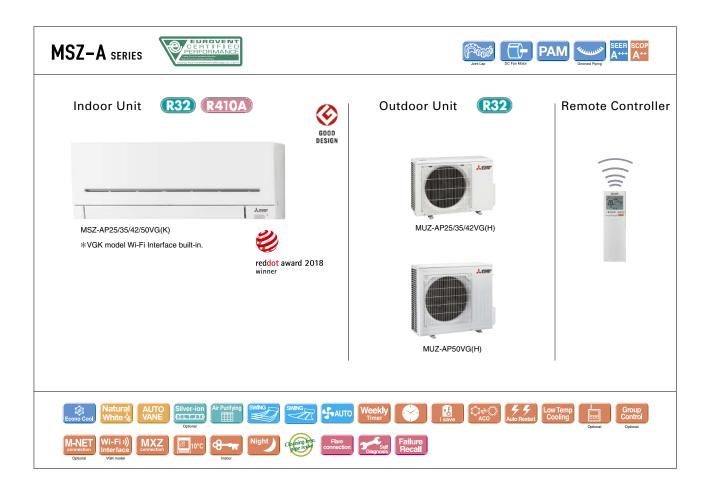


Туре						Inverter H	leat Pump		
ndoor Ur	nit			MSZ-AP15VF	MSZ-AP20VF	MSZ-AP25VG(K)	MSZ-AP25VG(K)	MSZ-AP35VG(K)	MSZ-AP35VG(K)
Outdoor	Unit			for MXZ o	onnection	MUZ-AP25VG	MUZ-AP25VGH	MUZ-AP35VG	MUZ-AP35VGH
Refrigera	nt					Single: R32 ^(*1) / Mu	lti: R410A or R32 ^(*1)		
Power	Source					Outdoor Po	ower supply		
Supply	Outdoor (V / Ph	ase / Hz)				230/Si	ngle/50		
	Design load		kW	-	-	2.5	2.5	3.5	3.5
	Annual electricity	consumption (*2)	kWh/a	-	-	101	101	142	142
	SEER (*4)			-	-	8.6	8.6	8.6	8.6
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	0.990	0.990
	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	-	-	2.4 (-15°C)	2.2 (-20°C)	2.6 (-15°C)	2.4 (-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	-	-	698	703	862	873
eason)(*5)	SCOP (*4)			-	-	4.8	4.7	4.7	4.6
		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)		Α	-	-	7.1	7.1	8.5	8.5
	Input	Rated	kW	0.017	0.019	0.026	0.026	0.026	0.026
	Operating Current(Max)		Α	0.17	0.19	0.3	0.3	0.3	0.3
	Dimensions	H*W*D	mm	250-760-178	250-760-178	299-798-219	299-798-219	299-798-219	299-798-219
	Weight	ļ.	kg	8.2	8.2	10.5	10.5	10.5	10.5
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	4.9 - 5.9 - 7.1 - 8.7 - 11.4	4.9 - 5.9 - 7.1 - 8.7 - 11.4	4.9 - 5.9 - 7.1 - 8.7 - 11.4	4.9 - 5.9 - 7.1 - 8.7 - 11
, inc	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	4.9 - 5.9 - 7.3 - 8.9 - 12.9	4.9 - 5.9 - 7.3 - 8.9 - 12.9	4.9 - 5.9 - 7.3 - 8.9 - 12.9	4.9 - 5.9 - 7.3 - 8.9 - 12
	Sound Level (SPL)	Cooling	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 - 24 - 30 - 36 - 42	19 - 24 - 30 - 36 - 42	19 - 24 - 30 - 36 - 42	19 - 24 - 30 - 36 - 42
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 - 24 - 34 - 39 - 45	19 - 24 - 34 - 39 - 45	19 - 24 - 31 - 38 - 45	19 - 24 - 31 - 38 - 45
	Sound Level (PWL)	Cooling	dB(A)	59	60	57	57	57	57
	Dimensions	H*W*D	mm	-	-	550-800-285	550-800-285	550-800-285	550-800-285
	Weight		kg	-	-	31	31	31	31
	Air Values	Cooling	m³/min	-	-	32.2	32.2	32.2	32.2
	Air Volume	Heating	m³/min	-	-	29.8	29.8	33.8	33.8
Outdoor Init		Cooling	dB(A)	-	-	47	47	49	49
,,,,,	Sound Level (SPL)	Heating	dB(A)	-	-	48	48	50	50
	Sound Level (PWL)	Cooling	dB(A)	-	=	59	59	61	61
	Operating Curre		A	-	-	6.8	6.8	8.2	8.2
	Breaker Size		Α	-	-	10	10	10	10
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
xt.	Max.Length	Out-In	m	-	=	20	20	20	20
Piping	Max.Height	Out-In	m	-	-	12	12	12	12
Guarante	eed Operating	Cooling	*C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Outdoor)	Heating	°C	_	_	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24

^(*1) Refigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

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

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



Гуре					Inverter	Heat Pump					
door Ur	nit			MSZ-AP42VG(K)	MSZ-AP42VG(K)	MSZ-AP50VG(K)	MSZ-AP50VG(K)				
utdoor I	Unit			MUZ-AP42VG	MUZ-AP42VGH	MUZ-AP50VG	MUZ-AP50VGH				
frigera	nt				Single: R32 ^(*1) / N	/Julti: R410A or R32 ⁽¹⁾					
wer	Source			Outdoor Power supply							
pply	Outdoor (V/Ph	ase / Hz)		230/Single/50							
	Design load		kW	4.2	4.2	5.0	5.0				
	Annual electricity	consumption (*2)	kWh/a	188	188	236	236				
	SEER (*4)			7.8	7.8	7.4	7.4				
oling		Energy efficiency class		A++	A++	A++	A++				
	Capacity	Rated	kW	4.2	4.2	5.0	5.0				
	Сараспу	Min-Max	kW	0.9-4.5	0.9-4.5	1.4-5.4	1.4-5.4				
	Total Input	Rated	kW	1.300	1.300	1.550	1.550				
	Design load		kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)				
	Dardamad.	at reference design temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)				
	Declared Capacity	at bivalent temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)				
	Jupacity	at operation limit temperature	kW	4.2 (-15°C)	3.8 (-20°C)	4.7 (-15°C)	4.2 (-20°C)				
ating	Back up heating	capacity	kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)				
erage	Annual electricity	consumption (*2)	kWh/a	1120	1134	1250	1275				
ison)(*5)	SCOP (*4)			4.7	4.6	4.7	4.6				
		Energy efficiency class		A++	A++	A++	A++				
	0	Rated	kW	5.4	5.4	5.8	5.8				
	Capacity	Min-Max	kW	1.3-6.0	1.3-6.0	1.4-7.3	1.4-7.3				
	Total Input	Rated	kW	1.490	1.490	1.600	1.600				
eratin	g Current (Max)		A	9.9	9.9	13.6	13.6				
	Input	Rated	kW	0.032	0.032	0.032	0.032				
	Operating Current(Max)		A	0.3	0.3	0.3	0.3				
	Dimensions	H*W*D	mm	299-798-219	299-798-219	299-798-219	299-798-219				
	Weight		kg	10.5	10.5	10.5	10.5				
door nit	Air Volume (SLo-Lo-	Cooling	m³/min	5.4 - 6.5 - 7.7 - 9.3 - 11.4	5.4 - 6.5 - 7.7 - 9.3 - 11.4	6.0 - 7.2 - 8.4 - 10.0 - 12.6	6.0 - 7.2 - 8.4 - 10.0 - 12.6				
	Mid-Hi-SHi ⁽⁺³⁾ (Dry/Wet))	Heating	m³/min	5.3 - 6.1 - 7.7 - 9.4 - 14.0	5.3 - 6.1 - 7.7 - 9.4 - 14.0	5.6 - 6.5 - 8.2 - 10.0 - 14.0	5.6 - 6.5 - 8.2 - 10.0 - 14.0				
	Sound Level (SPL)	Cooling	dB(A)	21 - 29 - 34 - 38 - 42	21 - 29 - 34 - 38 - 42	28 - 33 - 36 - 40 - 44	28 - 33 - 36 - 40 - 44				
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	21 - 29 - 35 - 40 - 45	21 - 29 - 35 - 40 - 45	28 - 33 - 38 - 43 - 48	28 - 33 - 38 - 43 - 48				
	Sound Level (PWL)	Cooling	dB(A)	57	57	58	58				
	Dimensions	H*W*D	mm	550-800-285	550-800-285	714-800-285	714-800-285				
	Weight		kg	35	35	40	40				
	Air Volume	Cooling	m³/min	30.4	30.4	40.5	40.5				
ıtdoor	All Volume	Heating	m³/min	32.7	32.7	40.5	40.5				
itaoor it	Sound Level (SPL)	Cooling	dB(A)	50	50	52	52				
	` '	Heating	dB(A)	51	51	52	52				
	Sound Level (PWL)	Cooling	dB(A)	61	61	64	64				
	Operating Curre	ent (Max)	Α	9.6	9.6	13.3	13.3				
	Breaker Size		А	10	10	16	16				
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52				
ct. ping	Max.Length	Out-In	m	20	20	20	20				
P.III9	Max.Height	Out-In	m	12	12	12	12				
	eed Operating	Cooling	*C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46				
ange (C	Outdoor)	Heating	°C	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24				

^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 6x82 is 675 in the IPCC 4th Assessment Report.

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

(*3) SHs. Super High

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

(*5) Please see page 63 for heating (warmer season) specifications.



MSZ-F SERIES

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

₹410A

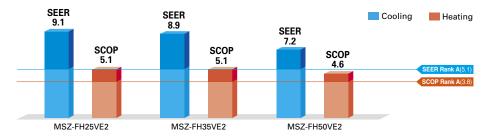






High Energy Efficiency

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



3D i-see Sensor

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

Indirect Airflow

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

Direct Airflow

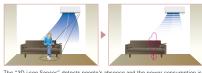
This setting can be used to directly target airflow at people such as for immediate comfort when coming indoors on a hot (cold) day.





Absence Detection

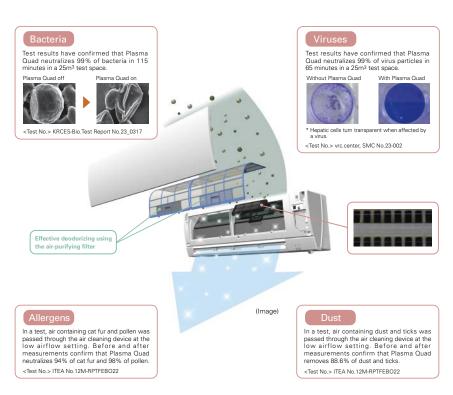
The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.

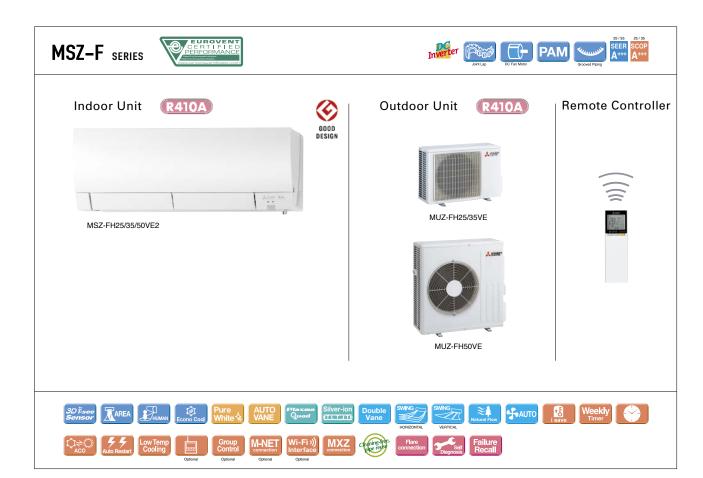


The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60

Plasma Quad

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





уре					Inverter Heat Pump						
door Ur	nit			MSZ-FH25VE2	MSZ-FH35VE2	MSZ-FH50VE2					
tdoor I	Jnit			MUZ-FH25VE	MUZ-FH35VE	MUZ-FH50VE					
frigera	nt				R410A ^(*1)						
wer	Source			Outdoor Power supply							
pply	Outdoor (V/Ph	ase / Hz)		230/Single/50							
	Design load		kW	2.5	3.5	5.0					
	Annual electricity	consumption (*2)	kWh/a	96	138	244					
	SEER (*4)			9.1	8.9	7.2					
oling		Energy efficiency class	3	A+++	A+++	A++					
	Capacity	Rated	kW	2.5	3.5	5.0					
	Capacity	Min-Max	kW	1.4-3.5	0.8-4.0	1.9-6.0					
	Total Input	Rated	kW	0.485	0.820	1.380					
	Design load		kW	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)					
	Da element	at reference design temperature		3.0(-10°C)	3.6(-10°C)	4.5(-10°C)					
	Declared 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					
son)(*5)	SCOP (*4)			5.1	5.1	4.6					
		Energy efficiency class	s	A+++	A+++	A++					
	Capacity	Rated	kW	3.2	4.0	6.0					
	Capacity	Min-Max	kW	1.8-5.5	1.0-6.3	1.7-8.7					
	Total Input	Rated	kW	0.580	0.800	1.480					
eratin	g Current (Max)		A	9.6	10.0	14.0					
	Input	Rated	kW	0.029	0.029	0.031					
	Operating Current(Max)		A	0.4	0.4	0.4					
	Dimensions H*W*D		mm	305(+17)-925-234	305(+17)-925-234	305(+17)-925-234					
loor	Weight		kg	13.5	13.5	13.5					
it	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 ^{t*3)} (Dry/Wet))	Heating	m³/min	4.0-4.7-6.4-9.2-13.2	4.0-4.7-6.4-9.2-13.2	5.7-7.2-9.0-11.2-14.6					
	Sound Level (SPL)	Cooling	dB(A)	20-23-29-36-42	21-24-29-36-42	27-31-35-39-44					
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	20-24-29-36-44	21-24-29-36-44	25-29-34-39-46					
	Sound Level (PWL)	Cooling	dB(A)	58	58	60					
	Dimensions	H*W*D	mm	550-800-285	550-800-285	880-840-330					
	Weight		kg	37	37	55					
	Air Volume	Cooling	m³/min	31.3	33.6	48.8					
tdoor		Heating	m³/min	31.3	33.6	51.3					
it	Sound Level (SPL)	Cooling	dB(A)	46	49	51					
	` ′	Heating	dB(A)	49	50	54					
	Sound Level (PWL)		dB(A)	60	61	64					
	Operating Curre	ent (Max)	A	9.2	9.6	13.6					
	Breaker Size		A	10	10	16					
t.	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35 / 12.7					
ping	Max.Length	Out-In	m	20	20	30					
	Max.Height	Out-In	m	12	12	15					
	ed Operating	Cooling	*C	-10 ~ +46	-10 ~ +46	-10 ~ +46					
ange (C	Outdoor)	Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24					

^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 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 Gasssemble the product yourself or product yourself and always ask a professional. The GWP of R41Oa is 2088 in the IPCO 4th Assessment Report.

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

(3) SH: Super High

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

(5) Please see page 63 for heating (warmer season) specifications.





MSZ-E

SERIES

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



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





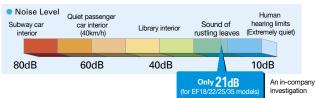


All models in the series have achieved high energy-savings rating, and are contributing to reduced energy consumption in homes, offices and a range of other settings. Offered in a variety of output capacities and installation patterns, the vast applicability promises an ideal match for any user.

Rank A for single connection					Compatibility				
MUZ-EF25/35VE(H)					MXZ				
MUZ-EF42/50VE	2D33VA	2D42VA2	2D53VA2	3E54VA	3E68VA	4E72VA	4E83VA	5E102VA	6D122VA
_	~	~	~	~	~	~	~	~	~
-	~	~	~	~	~	~	~	~	~
A +++/ A++(A++*)	~	~	~	~	~	>	~	~	~
A +++/ A++(A+*)		~	~	~	~	~	~	~	~
A++/A++			~	~	~	~	~	~	~
A++/A+			~	~	~	~	~	~	~
	MUZ-EF25/35VE(H) MUZ-EF42/50VE A***/A**(A***) A***/A** A**/A**	MUZ-EF25/35VE(H) MUZ-EF42/50VE 2D33VA - A ***/A**(A***) A ***/A** A **/A** A **/A**	MUZ-EF25/35VE(H) MUZ-EF42/50VE	D33VA 2D42VA2 2D53VA2	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-EF28/35VE(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 -

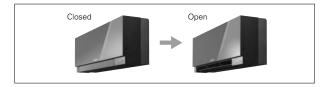
Quiet Comfort All Day Long

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.



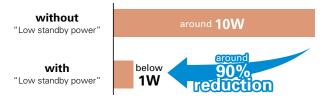
Superior Exterior and Operating Design Concept

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

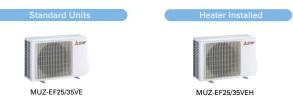
Electrical devices consume standby power even when they are not in actual use. While we obviously strive to reduce power consumption during actual use, reducing this wasted power that cannot be seen is also very important.



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-EF18/22/25/35/42/50VE3W

Ø



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

Silver



MSZ-EF18/22/25/35/42/50VE3B*









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

































































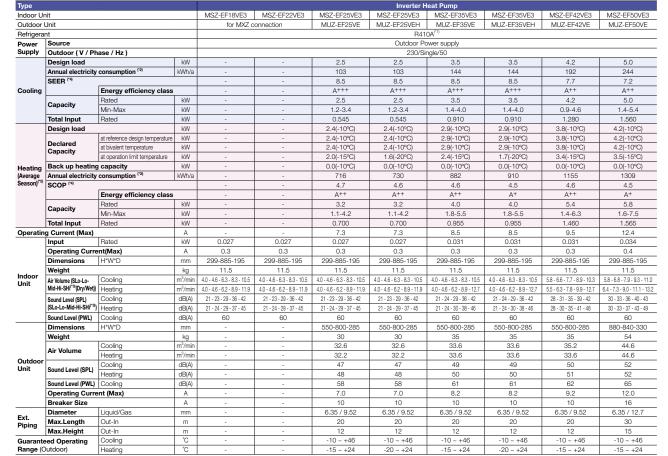












^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or Gasssemble the product yourself and always ask a professional. The GWP of R41OA is 2088 in the IPCC 4th Assessment Report.

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

(*3) SH: Super High

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

(*5) Please see page 63 for heating (warmer season) specifications.

MSZ-S SERIES MSZ-G SERIES

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



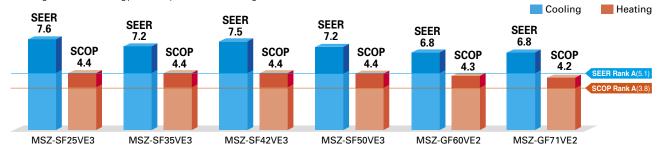
"Rank A++/A+" Energy Savings Achieved for Entire Range of Series







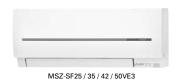
All models in the series, from the low-capacity 25 to the high-capacity 71, have achieved the "Rank A*" for SEER and "Rank A*" for SCOP as energy-savings rating. For home use, such as in bedrooms and living rooms, to light commercial use, such as in offices, our air conditioners are contributing to reduced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



Wide Line-up

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







Compact and Stylish

(MSZ-SF15/20VA)

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

Comparison with our previous model GE





Family Design

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

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





"Weekly Timer"



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

■ Example Operation Pattern (Winter/Heating mode)

	M	on.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
c.oo	ON	20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
6:00				Automatically change	s to high-power opera	tion at wake-up time		
8:00								
10:00	C)FF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00 14:00			Automatic	ally turned off during v	vork hours		Midday is warmer, so the temperature	
16:00	l							
18:00	ON	20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
55:00 50:00			Automatically turi	ns on, synchronized wi	th arrival at home		Automatically raises ten match time when outsid	nperature setting to de-air temperature is low
(uuring sieeping nours)	ON	18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
			Automa	itically lowers tempera	ture at bedtime for ene	ergy-saving operation a	t night	
(during sleeping hours)	ON [18°C	ON 18°C Automa	ON 18°C	ON 18°C ture at bedtime for end	ON 18°C ergy-saving operation a	ON 18°C t night	ON 18°C

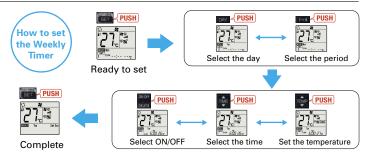
Settings

Pattern Settings: Input up to four settings for each day

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

■ Easy set-up using dedicated buttons -





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

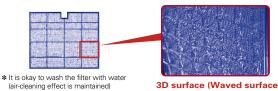
Low Standby Power

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

without around 10W "Low standby power" with below 90% "Low standby power" **1W**

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

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



3D surface (Waved surface)

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

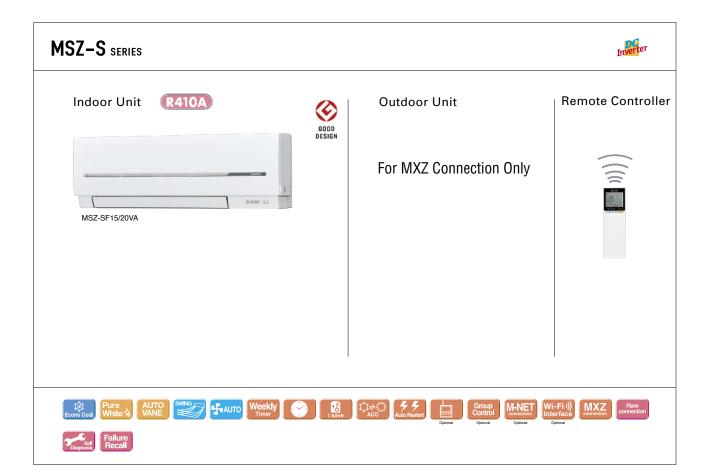
"i save" is a simplified setting function that recalls the preferred (preset) temperature by pressing a single button on the remote con-

troller. 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.





Туре				Inverter Heat Pump								
Indoor Ur	nit			MSZ-SF15VA	MSZ-SF20VA	MSZ-SF25VE3	MSZ-SF25VE3	MSZ-SF35VE3	MSZ-SF35VE3			
Outdoor	Jnit			for MXZ o	onnection	MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH			
Refrigera	nt			R410A ⁽⁺⁾								
Power	Source			Outdoor Power supply								
Supply	Outdoor (V / Ph	ase / Hz)				230/Si	ngle/50					
	Design load	•	kW	=	-	2.5	2.5	3.5	3.5			
	Annual electricity	consumption (*2)	kWh/a	=	-	116	116	171	171			
	SEER (*4)			=	-	7.6	7.6	7.2	7.2			
Cooling		Energy efficiency class		=	-	A++	A++	A++	A++			
·		Rated	kW	-	-	2.5	2.5	3.5	3.5			
	Capacity	Min-Max	kW	-	-	0.9-3.4	0.9-3.4	1.1-3.8	1.1-3.8			
	Total Input	Rated	kW	=	-	0.600	0.600	1.080	1.080			
	Design load		kW	=	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)			
	Ť	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)			
Heating	Back up heating		kW	=	=	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)			
(Average	Annual electricity		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			
Operatin	g Current (Max)		A	-	-	8.4	8.4	8.5	8,5			
	Input	Rated	kW	0.017	0.019	0.024	0.024	0.027	0.027			
	Operating Curre	Operating Current(Max)		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		ka	7.7	7.7	10	10	10	10			
Indoor Unit	Air Volume (SLo-Lo-	Cooling	m³/min	3.5 - 3.9 - 4.6 - 5.5 - 6.4	3.5 - 3.9 - 4.6 - 5.5 - 6.9	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1			
Unit	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 - 11.0			
	Sound Level (SPL)	Cooling	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 ⁽¹⁶⁾ - 24 - 30 - 36 - 42	19 ⁽¹⁶⁾ - 24 - 30 - 36 - 42	19 ^(*6) - 24 - 30 - 36 - 42	19 ⁽¹⁶⁾ - 24 - 30 - 36 - 42			
	(SLo-Lo-Mid-Hi-SHi(*3))	Heating	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 ⁽¹⁶⁾ - 24 - 34 - 39 - 45	19 ⁽¹⁶⁾ - 24 - 34 - 39 - 45	19 ^(*6) - 24 - 34 - 40 - 46	19 ⁽¹⁶⁾ - 24 - 34 - 40 - 46			
	Sound Level (PWL)	Cooling	dB(A)	59	60	57	57	57	57			
	Dimensions	H*W*D	mm	-	-	550-800-285	550-800-285	550-800-285	550-800-285			
	Weight		kg	-	-	31	31	31	31			
	Air Volume	Cooling	m³/min	-	-	31.1	31.1	35.9	35.9			
	Air volume	Heating	m³/min	-	-	30.7	30.7	35.9	35.9			
Outdoor Unit	0 11 1/001)	Cooling	dB(A)	=	-	47	47	49	49			
Oill	Sound Level (SPL)	Heating	dB(A)	-	-	48	48	50	50			
	Sound Level (PWL)	Cooling	dB(A)	-	-	58	58	62	62			
	Operating Current (Max)		A	-	-	8.2	8.2	8.2	8.2			
	Breaker Size		А	-	-	10	10	10	10			
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52			
Ext. Piping	Max.Length	Out-In	m	-	-	20	20	20	20			
riping	Max.Height	Out-In	m	-	-	12	12	12	12			
Guarante	ed Operating	Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46			
Range (C		Heating	°C	-	-	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24			
(*1) Refriger	ant lankaga gontribute	se to climate change Befrigera	nt with low	ver alobal warming notential (C	WP) would contribute less to gl	ohal warming than a refrigerent	with higher GMP if leaked to t	he atmosphere. This appliance	contains a refrigerant fluid with			

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

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

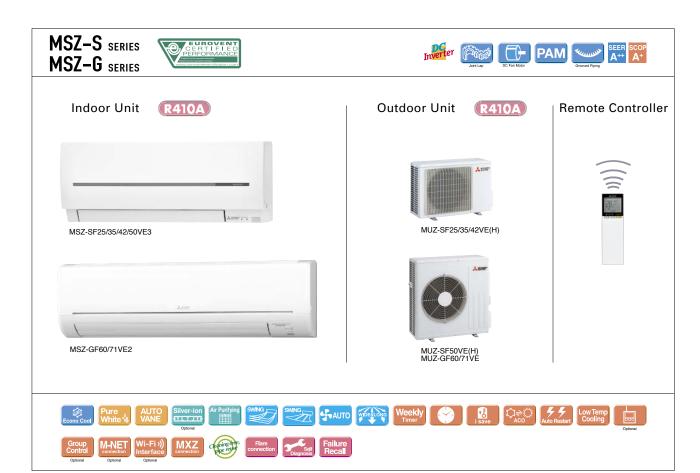
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHI: Super High

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

(*5) Please see page 63 for heating (warmer season) specifications.

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



Туре					Inverter Heat Pump								
Indoor Ur	nit			MSZ-SF42VE3	MSZ-SF42VE3	MSZ-SF50VE3	MSZ-SF50VE3	MSZ-GF60VE2	MSZ-GF71VE2				
Outdoor I	Jnit			MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH	MUZ-GF60VE	MUZ-GF71VE				
Refrigera	nt					R41	OA ^(*1)						
Power	Source			Outdoor Power supply									
Supply	Outdoor (V / Ph	ase / Hz)				230/Si	ngle/50						
	Design load		kW	4.2	4.2	5.0	5.0	6.1	7.1				
	Annual electricity	consumption (*2)	kWh/a	196	196	246	246	311	364				
	SEER (14)		•	7.5	7.5	7.2	7.2	6.8	6.8				
Cooling		Energy efficiency class	,	A++	A++	A++	A++	A++	A++				
		Rated	kW	4.2	4.2	5.0	5.0	6.1	7.1				
	Capacity	Min-Max	kW	0.8-4.5	0.8-4.5	1.4-5.4	1.4-5.4	1.4-7.5	2.0-8.7				
	Total Input	Rated	kW	1.340	1.340	1.660	1.660	1.790	2.130				
	Design load		kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)				
		at reference design temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)				
	Declared	at bivalent temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)				
	Capacity	at operation limit temperature	kW	3.4 (-15°C)	2.2 (-20°C)	3.4 (-15°C)	2.3 (-20°C)	3.7 (-15°C)	5.4 (-15°C)				
Heating	Back up heating	capacity	kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)				
(Average	Annual electricity		kWh/a	1215	1242	1351	1380	1489	2204				
Season)(*5)	SCOP (*4)			4.4	4.3	4.4	4.3	4.3	4.2				
		Energy efficiency class	,	A+	A+	A+	A+	A+	A+				
		Rated	kW	5.4	5.4	5.8	5.8	6.8	8.1				
	Capacity	Min-Max	kW	1.3-6.0	1.3-6.0	1.4-7.3	1.4-7.3	2.0-9.3	2.2-9.9				
	Total Input	Rated	kW	1.580	1.580	1.700	1.700	1.810	2.230				
Operatin	g Current (Max)		A	9.5	9.5	12.3	12.3	14.5	16.6				
	Input	Rated	kW	0.027	0.027	0.035	0.035	0.062	0.058				
	Operating Current(Max)		A	0.3	0.3	0.3	0.3	0.5	0.5				
	Dimensions H*W*D		mm	299-798-195	299-798-195	299-798-195	299-798-195	325-1100-238	325-1100-238				
	Weight		kg	10	10	10	10	16	16				
Indoor Unit	Air Volume (SLo-Lo-	Cooling	m³/min	4.7 - 5.8 - 6.7 - 7.9 - 9.1	4.7 - 5.8 - 6.7 - 7.9 - 9.1	5.1 - 6.2 - 7.0 - 8.2 - 9.9	5.1 - 6.2 - 7.0 - 8.2 - 9.9	9.8-11.3-13.4-15.6-18.3	9.7-11.5-13.3-15.4-17.8				
Unit	Mid-Hi-SHi(1-3)(Dry/Wet))	Heating	m³/min	4.7 - 5.8 - 7.2 - 9.1 - 11.4	4.7 - 5.8 - 7.2 - 9.1 - 11.4	5.1 - 6.4 - 8.0 - 9.8 - 12.0	5.1 - 6.4 - 8.0 - 9.8 - 12.0	9.8-11.3-13.4-15.6-18.3	10.2-11.5-13.3-15.4-17.8				
	Sound Level (SPL)	Cooling	dB(A)	26 ⁽¹⁶⁾ - 31 - 34 - 38 - 42	26 ^(*6) - 31 - 34 - 38 - 42	28 ⁽⁷⁾ - 33 - 36 - 40 - 45	28 ⁽⁷⁾ - 33 - 36 - 40 - 45	29 - 37 -41 - 45 - 49	30 - 37 - 41 - 45 - 49				
	(SLo-Lo-Mid-Hi-SHi(*3))	Heating	dB(A)	26 ⁽¹⁶⁾ - 31 - 36 - 42 - 47	26 ^(*6) - 31 - 36 - 42 - 47	28 ⁽⁷⁾ - 33 - 38 - 43 - 49	28 ⁽⁷⁾ - 33 - 38 - 43 - 49	29 - 37 - 41 - 45 - 49	30 - 37 - 41 - 45 - 49				
	Sound Level (PWL)	Cooling	dB(A)	57	57	58	58	65	65				
	Dimensions	H*W*D	mm	550-800-285	550-800-285	880-840-330	880-840-330	880-840-330	880-840-330				
	Weight		kg	35	35	55	55	50	53				
	Air Volume	Cooling	m³/min	35.2	35.2	44.6	44.6	49.2	50.1				
	Air volume	Heating	m³/min	33.6	33.6	44.6	44.6	49.2	48.2				
Outdoor Unit	0 11 1/001)	Cooling	dB(A)	50	50	52	52	55	55				
Offic	Sound Level (SPL)	Heating	dB(A)	51	51	52	52	55	55				
	Sound Level (PWL)	Cooling	dB(A)	63	63	65	65	65	65				
	Operating Curre	ent (Max)	A	9.2	9.2	12	12	14	16.1				
	Breaker Size	·	Α	10	10	16	16	20	20				
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7	6.35/15.88	9.52/15.88				
Ext. Piping	Max.Length	Out-In	m	20	20	30	30	30	30				
riping	Max.Height	Out-In	m	12	12	15	15	15	15				
Guarante	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46				
Range (C		Heating	°C	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24				
							with higher GWP, if leaked to t						

⁽¹⁾ Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of COz, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or Gasssemble the product yourself or product yourself and always ask a professional. The GWP of R41(0A is 2088 in the IPCO 4th Assessment Report.

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

(3) SHI: Super High

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

(5) Please see page 63 for heating (warmer season) specifications.

(6) For single use: only 268(A), For multi use (MXZ): 268(A).

(7) For single use: only 284(B(A), For multi use (MXZ): 304(B(A).



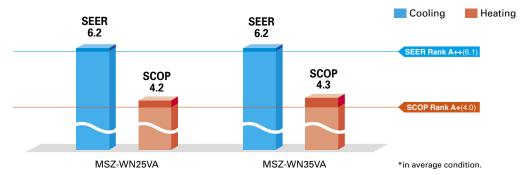
Advanced Inverter Control -Efficient Operation All the Time







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



Wider Heating Operating Range

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



Wi-Fi and System Control

Wi-Fi Interface (Optional)

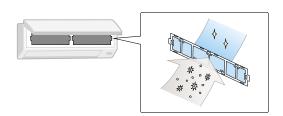
Optional interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.

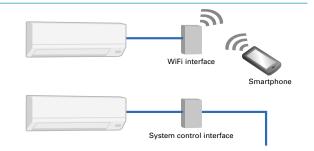
System Control Interface (Optional)

- •Remote on/off operation is possible by input to the connector.
- •Depending on the interface used, connecting a wired remotecontrol such as the PAR-32MAA is possible.
- •Centralized control is possible when connected to M-NET.
- *Wi-Fi Interface and System Control Interface cannot be used simultaneously.

Silver-ionized Air Purifying Filter

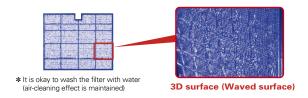
The high performance filter is attached as standard. Captures the bacteria, pollen and other allergens in the air and neutralises them.





Air Purifying Filter

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

















MSZ-WN25/35VA























Inverter PAM SEER A++ SCOP A+









Туре				Inverter h	Heat Pump
Indoor Ur	nit			MSZ-WN25VA	MSZ-WN35VA
Outdoor l	Jnit			MUZ-WN25VA	MUZ-WN35VA
Refrigerar	nt			R41	IOA ^(*1)
Power	Source			Indoor Po	wer Supply
Supply	Outdoor (V/Ph	ase / Hz)		230V/Sir	ngle/50Hz
	Design load		kW	2.5	3.1
	Annual electricity	consumption (*2)	kWh/a	141	173
	SEER (*4)			6.2	6.2
Cooling		Energy efficiency class		A++	A++
	Capacity	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	1.6(-15°C)	2.0(-15°C)
Heating	Back up heating		kW	0.0(-10°C)	0.0(-10°C)
(Average	Annual electricity	consumption (*2)	kWh/a	628	793
Season)(*5)	SCOP (*4)			4.2	4.3
		Energy efficiency class		A ⁺	A ⁺
	0	Capacity		3.15	3.60
	Сараспу	Min-Max	kW	0.9 - 3.5	1.1 - 4.1
	Total Input	Rated	kW	0.850	0.975
Operating	g Current (Max)		Α	5.8	6.5
	Input	Rated	kW	0.020	0.026
	Operating Current(Max)		Α	0.3	0.3
	Dimensions H*W*D		mm	290-799-232	290-799-232
	Weight		kg	9	9
Indoor Unit	Air Volume (SLo-Lo-	Cooling	m³/min	3.8 - 5.5 - 7.3 - 9.5	3.8 - 5.7 - 7.8 - 11.4
Oilit	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 - 46
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	23 - 30 - 37 - 43	23 - 30 - 37 - 44
	Sound Level (PWL)	Cooling	dB(A)	57	60
	Dimensions	H*W*D	mm	538-699-249	538-699-249
	Weight		kg	24	25
	Air Volume	Cooling	m³/min	31.5	31.5
	Air volume	Heating	m³/min	31.5	31.5
Outdoor Unit	Sound Level (SPL)	Cooling	dB(A)	50	52
-mi	` '	Heating	dB(A)	50	52
	Sound Level (PWL)	Cooling	dB(A)	63	64
	Operating Curre	nt (Max)	Α	5.5	6.2
	Breaker Size		Α	10	10
F4	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52
Ext. Piping	Max.Length	Out-In	m	20	20
piiig	Max.Height	Out-In	m	12	12
Guarante	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46
Range (O	Outdoor)	Heating	°C	-15 ~ +24	-15 ~ +24

^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or Gasssemble the product yourself or product yourself and always ask a professional. The GWP of R41Oa is 2088 in the IPCO 4th Assessment Report.

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

(3) SH: Super High

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

(5) Please see page 63 for heating (warmer season) specifications.



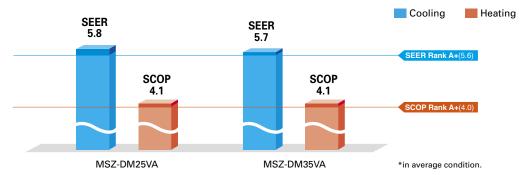
Advanced Inverter Control -Efficient Operation All the Time Inverter







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



Wider Cooling Operating Range

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



Wi-Fi and System Control

Wi-Fi Interface (Optional)

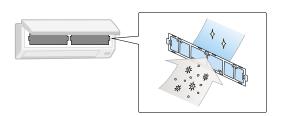
Optional interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.

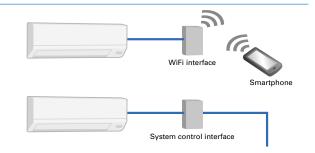
System Control Interface (Optional)

- •Remote on/off operation is possible by input to the connector.
- •Depending on the interface used, connecting a wired remotecontrol such as the PAR-32MAA is possible.
- •Centralized control is possible when connected to M-NET.
- *Wi-Fi Interface and System Control Interface cannot be used simultaneously.

Silver-ionized Air Purifying Filter

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





Compact Units

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











(R410A)



















Outdoor Unit

MUZ-DM25/35VA









MSZ-DM25/35VA

































уре				Invert	er Heat Pump					
loor Ur	nit			MSZ-DM25VA	MSZ-DM35VA					
tdoor I	Jnit			MUZ-DM25VA	MUZ-DM35VA					
rigera	nt				R410A ⁽¹⁾					
ver	Source				r Power supply					
oply	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					
oling		Energy efficiency class		A ⁺	A ⁺					
9		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)					
	Design load	at reference design temperature	kW	1.9 (-10°C)	2.4 (-10°C)					
	Declared	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)					
	Back up heating		kW	0.0 (-10°C)	0.0 (-10°C)					
rting rage	Annual electricity		kWh/a	647	809					
son)(*5)	SCOP (*4)	oonsumpuon	KVVII/a	4,1	4.1					
,	000F	Energy efficiency class		A ⁺	4.1 A ⁺					
		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					
orotin	g Current (Max)	nateu	A	5.8	6.5					
eratin	Input	Rated	kW	0.020	0.024					
			A	0.3	0.024					
	Operating Current(Max) Dimensions H*W*D		mm	290-799-232	290-799-232					
	Weight			290-799-232	9					
oor		lo r	kg	· · · · · · · · · · · · · · · · · · ·						
it	Air Volume (SLo-Lo- Mid-Hi-SHi ^(*3) (Dry/Wet))	Cooling	m³/min m³/min	3.8 - 5.5 - 7.3 - 9.5	3.8 - 5.7 - 7.8 - 10.9					
		Heating	_	3.5 - 5.5 - 7.5 - 10.0	3.5 - 5.5 - 7.5 - 10.3					
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi ^(*3))	Cooling	dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 45					
		Heating	dB(A)	23 - 30 - 37 - 43	23 - 30 - 37 - 44					
	Sound Level (PWL)	Cooling	dB(A)	57	60					
	Dimensions	H*W*D	mm	538-699-249	538-699-249					
	Weight	0	kg	24	25					
	Air Volume	Cooling	m³/min	31.5	31.5					
tdoor		Heating	m³/min	31.5	31.5					
t	Sound Level (SPL)	Cooling	dB(A)	50	51					
	` ′	Heating	dB(A)	50	51					
	Sound Level (PWL)		dB(A)	63	64					
	Operating Curre	nt (Max)	A	5.5	6.2					
	Breaker Size	1	A	10	10					
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52					
i. Ding	Max.Length	Out-In	m	20	20					
	Max.Height	Out-In	m	12	12					
	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46					
ınae (C	Outdoor)	Heating	*C	-10 ~ +24	-10 ~ +24					

^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or Gasssemble the product yourself or product yourself and always ask a professional. The GWP of R41Oa is 2088 in the IPCO 4th Assessment Report.

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

(3) SH: Super High

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

(5) Please see page 63 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







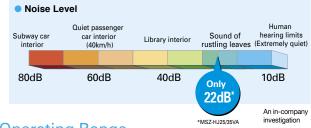




Mitsubishi Electric's cutting-edge inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises an Energy Rank "A" rating for 25/35 classes and "A*" for 50/60/71 classes.

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.

Indoor Unit: MSZ-HJ25/35/50VA

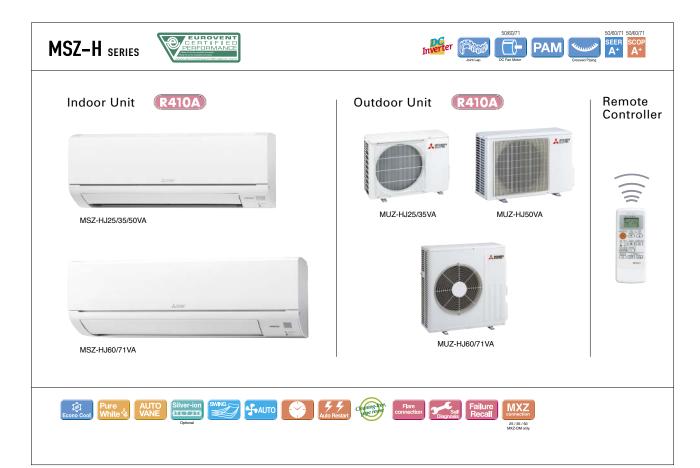
Only 799mm width

Outdoor Unit: MUZ-HJ25/35VA

Only 699mm width

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





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

^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or Gasssemble the product yourself or product yourself and always ask a professional. The GWP of R41Oa is 2088 in the IPCO 4th Assessment Report.

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

(3) SH: Super High

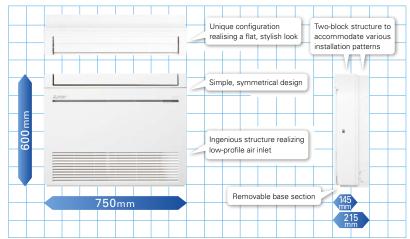
(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

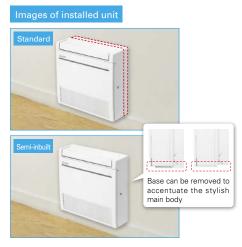
(5) Please see page 63 for heating (warmer season) specifications.



Simple, Flat Design

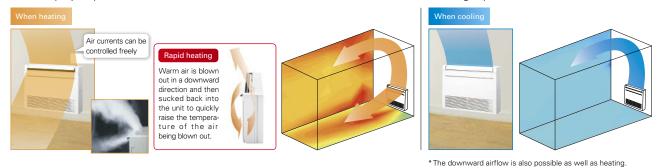
Uneven surfaces have been smoothed to provide a simple design with linear beauty, harmonised with all types of interiors.





Multi-flow Vane

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



Excellent Energy-saving Performance



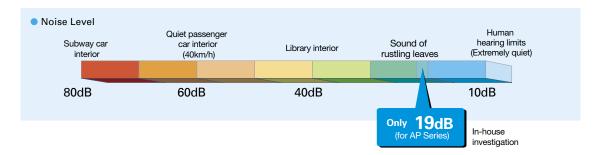
SEER A**** (25) and SCOP A* (25/35/50) ratings have been achieved through development focusing on compliance with European energy-related product (ErP) regulations.

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.

Quiet Operation

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

























Outdoor Unit









Remote Controller



































MFZ-KJ25/35/50VE2























MFZ-KJ50VE2

MUFZ-KJ50VE R410A^(*1)





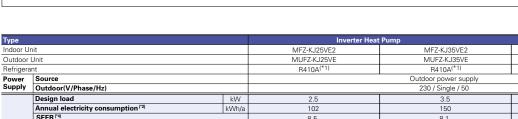












Power	Source				Outdoor power supply		
Supply	Outdoor(V/Phase/Hz)				230 / Single / 50		
	Design load		kW	2.5	3.5	5.0	
	Annual electricity consum	ption ^(†2)	kWh/a	102	150	266	
	SEER (*4)			8.5	8.1	6.5	
Cooling		Energy efficiency class		A+++	A++	A++	
	Capacity	Rated	kW	2.5	3.5	5.0	
		Min-Max	kW	0.5 - 3.4	0.5 - 3.7	1.6 - 5.7	
	Total Input	Rated	kW	0.540	0.940	1.410	
	Design load		kW	3.4(-10°C)	3.5(-10°C)	4.4(-10°C)	
	Declared Capacity	at reference design temperature	kW	3.4(-10°C)	3.5(-10°C)	4.4(-10°C)	
		at bivalent temperature	kW	3.4(-10°C)	3.5(-10°C)	4.4(-10°C)	
		at operation limit temperature	kW	2.4(-15°C)	2.9(-15°C)	6.0(-15°C)	
Heating	Back up heating capacity		kW	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	
(Average	Annual electricity consum	ption ^('2)	kWh/a	1059	1110	1406	
Season)	SCOP (*4)			4.5	4.4	4.3	
		Energy efficiency class		A ⁺	A ⁺	A ⁺	
	Capacity	Rated	kW	3.4	4.3	6.0	
		Min-Max	kW	1.2 - 4.6	1.2 - 5.5	2.2 - 8.2	
	Total Input Rated		kW	0.770	1.100	1.610	
Operatin	g Current (Max)		Α	9.4	9.4	14.0	
	Input Rated		kW	0.016	0.016	0.038	
	Operating Current(Max)		Α	0.17	0.17	0.34	
	Dimensions H*W*D		mm	600-750-215	600-750-215	600-750-215	
la da sa	Weight	·	kg	15	15	15	
Indoor Unit	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	
Oiiit	(SLo-Lo-Mid-Hi-SHi (*3))	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)	Cooling	dB(A)	49	50	56	
	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	31.3	45.8	
Outdoor		Heating	m3/min	33.6	33.6	45.8	
Unit	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(Max)		Α	9.2	9.2	13.6	
	Breaker Size		Α	10	10	16	
Ext.	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/12.7	
Pipina	Max.Length	Out-In	m	20	20	30	
riping	Max.Height	Out-In	m	12	12	15	
	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	
[Outdoor]		Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	

[[]Outdoor] -15 ~ +24 (1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere, this appliance contains a refrigerant fluid wild be leaked to the atmosphere, the impact on global warming than a refrigerant with higher GWP, if leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of H1/0A is 2088 in the IPCC 4th Assessment Report.

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

(3) SH: Super High

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



Slim Design

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



Ceiling Mounted

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



Slim Body

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



Set Airflow According to Ceiling Height

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

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

Auto Vane Control

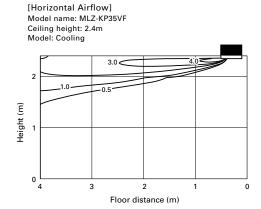
Outlet vanes can be moved left and right, and up and down using the remote controller. This improved airflow control feature solves the problem of drafts.

Up and Down Left and Right

*Only available when Econo Cool is set.

Horizontal Airflow

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



Weekly Timer Function

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

■ Example Operation Pattern (Winter/Heating mode)

	Mon.		Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
6:00	ON 20	o°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
				Automatically change	s to high-power opera	tion at wake-up time	I	
8:00								
10:00								
12:00	OFF		OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
(4:00			Automatic	ally turned off during w	ork hours		Midday is warmer, so the temperature	
(P:00								
18:00	ON 22	2°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C
50:00			Automatically turn	ns on, synchronized wi	th arrival at home		Automatically raises ten	nperature setting to de-air temperature is low
55:00							Thates are when outsit	ac all temperature is low
(during sleeping hours)	ON 18	3°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 10°C	ON 10°C
			Automa	tically lowers tempera	ture at bedtime for en	ergy-saving operation a	t night	

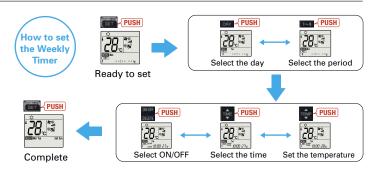
Settings

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.

Easy Installation

Industry leading Slim Body

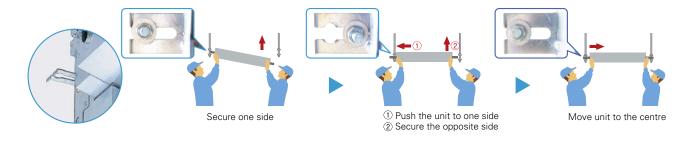
Inovative size which enables to fold the refrigerant piping above the unit



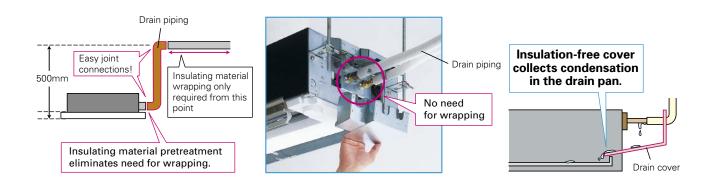
Dimension: 185(H)×1102(W)×360(D)mm

Temporary hanging hook

Work efficiency has improved during installation.

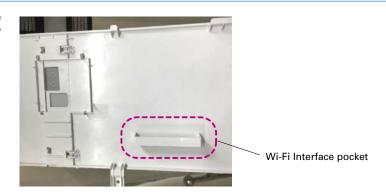


Drain Piping Supporters + Drain Cover



Wi-Fi Interface Installation (Optional)

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



MLZ-KP SERIES





Outdoor Unit

Remote Controller

For Multi Connection Only



Panel

MLP-444W

































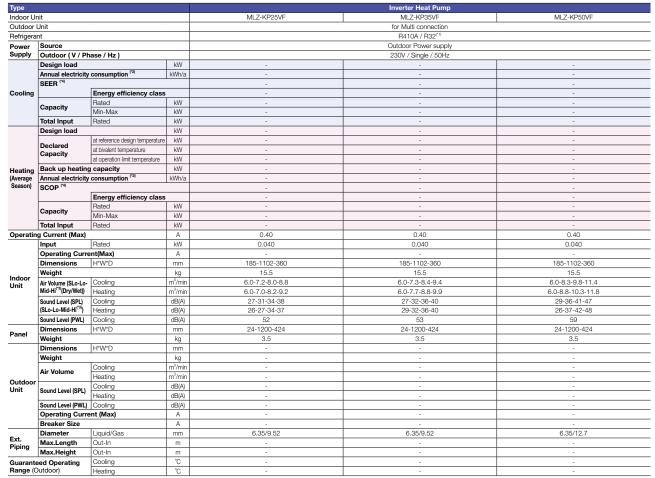












^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that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

Specification on Warmer/Colder Condition

Туре							Inverter Heat Pump			
Indoor Ur	nit			MSZ-L	N25VG	MSZ-L	N35VG	MSZ-L	N50VG	MSZ-LN60VG
Outdoor	Unit			MUZ-LN25VG	MUZ-LN25VGHZ	MUZ-LN35VG	MUZ-LN35VGHZ	MUZ-LN50VG	MUZ-LN50VGHZ	MUZ-LN60VG
Refrigera	nt						R32 (*3)			
	Design load		kW	2.5	2.5	3.5	3.5	5	5.0	6.1
Cooling	Annual electricity	consumption (*2)	kWh/a	83	83	128	130	205	230	285
	SEER			10.5	10.5	9.5	9.4	8.5	7.6	7.5
	Energy efficiency class			A+++	A+++	A+++	A+++	A+++	A++	A++
	Design load		kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)	3.3 (2°C)
	Davidson d	at reference design temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)	3.3 (2°C)
	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)	3.3 (2°C)
Heating (Warmer	Сарасну	at operation limit temperature	kW	2.5 (-15°C)	2.3 (-25°C)	3.2 (-15°C)	3.1 (-25°C)	4.2 (-15°C)	4.7 (-25°C)	6.0 (-15°C)
Season)	Back up heating capacity kW			0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0(2°C)	0.0 (2°C)
,	Annual electricity	consumption (*2)	kWh/a	358	374	412	466	602	779	779
	SCOP			6.6	6.7	6.7	6.6	5.8	5.9	5.9
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++	A+++
	Design load		kW	_	4.7 (-22°C)	-	5.9 (-22°C)	_	8.8 (-22°C)	-
		at reference design temperature	kW	_	2.6 (-22°C)	_	3.4 (-22°C)	-	5.1 (-22°C)	_
	Declared Capacity	at bivalent temperature	kW	_	3.2 (-10°C)	_	4.0 (-10°C)	_	6.0 (-10°C)	_
Heating (Colder	Capacity	at operation limit temperature	kW	_	2.3 (-25°C)	_	3.1 (-25°C)	_	4.7 (-25°C)	_
Season)	Back up heating	capacity	kW	_	2.1 (-22°C)	_	2.5 (-22°C)	_	3.7 (-22°C)	_
2230011,	Annual electricity	consumption (*2)	kWh/a	_	2425	_	3075	_	5340	_
	SCOP			_	4.0	_	4.0	_	3.4	_
		Energy efficiency class			A ⁺	_	A ⁺	_	A	_

_											
Type							Inverter H	eat Pump			
Indoor U	nit			MSZ-AP25VG MSZ-AP35VG			MSZ-A	P42VG	MSZ-A	P50VG	
Outdoor	Unit			MUZ-AP25VG	MUZ-AP25VGH	MUZ-AP35VG	MUZ-AP35VGH	MUZ-AP42VG	MUZ-AP42VGH	MUZ-AP50VG	MUZ-AP50VGH
Refrigera	nt						R410)A (*1)	•		
	Design load kW		kW	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0
Cooling	Annual electricity consumption (*2) kWh/a		kWh/a	116	116	171	171	196	196	246	246
ccoming	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)
,	Annual electricity	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 F	leat Pump		
Indoor Ur	nit			MSZ-FI	H25VE2	MSZ-F	H35VE2	MSZ-FH50VE2	
Outdoor I	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
	SEER			9.1	9.1	8.9	8.9	7.2	7.2
		Energy efficiency class			A+++	A+++	A+++	A++	A++
	Design load kW			1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)
		at reference design temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)
	Declared Capacity	at bivalent temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)
Heating (Warmer	Capacity	at operation limit temperature	kW	2.5 (-15°C)	1.7 (-25°C)	3.2 (-15°C)	2.6 (-25°C)	5.2 (-15°C)	3.8 (-25°C)
Season)	Back up heating	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)
,	Annual electricity	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+++

Туре						Inverter H	leat Pump		
Indoor Ur	nit			MSZ-EI	F25VE3	MSZ-E	F35VE3	MSZ-EF42VE3	MSZ-EF50VE3
Outdoor I	Unit			MUZ-EF25VE	MUZ-EF25VEH	MUZ-EF35VE	MUZ-EF35VEH	MUZ-EF42VE	MUZ-EF50VE
Refrigera	nt					R41	0A (*1)		
	Design load		kW	2.5	2.5	3.5	3.5	4.2	5.0
Cooling	Annual electricity consumption (*2) kWh/a			103	103	144	144	192	244
Cooming	SEER			8.5	8.5	8.5	8.5	7.7	7.2
		Energy efficiency class		A+++	A+++	A+++	A+++	A++	A++
	Design load kW			1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)
		at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)
	Declared Capacity	at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)
Heating (Warmer	Capacity	at operation limit temperature	kW	2.0 (-15°C)	1.6 (-20°C)	2.4 (-15°C)	1.7 (-20°C)	3.4 (-15°C)	3.5 (-15°C)
(warmer Season)	Back up heating	g capacity	kW	0.0 (2°C)					
0000011,	Annual electricity	Annual electricity consumption (*2) kWh/a			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-SI	F25VE3	MSZ-S	F35VE3	MSZ-SI	F42VE3	MSZ-S	F50VE3	
Outdoor	Unit			MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH	MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH	
Refrigera	nt				R410A (*1)							
	Design load		kW	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0	
Cooling	ing Annual electricity consumption (*2) kWh			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++							
	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)	
(warmer Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	
0000011,	Annual electricity	consumption (*2)	kWh/a	337	337	923 / 418	417	507	507	563	563	
	SCOP			5.4	5.4	5.4	5.4	5.8	5.8	5.7	5.7	
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	

Туре					Inverter H	eat Pump	
Indoor Ur	nit			MSZ-GF60VE2	MSZ-GF71VE2	MSZ-WN25VA	MSZ-WN35VA
Outdoor	Unit			MUZ-GF60VE	MUZ-GF71VE	MUZ-WN25VA	MUZ-WN35VA
Refrigera	nt				R410)A ^(*1)	
	Design load		kW	6.1	7.1	2.5	3.1
Cooling	Annual electricity	consumption (*2)	kWh/a	311	364	141	173
	SEER			6.8	6.8	6.2	6.2
		Energy efficiency class		A++	A++	A++	A++
	Design load		kW	2.5 (2°C)	3.7 (2°C)	1.1 (2°C)	1.3 (2°C)
		At reference design temperature	kW	2.5 (2°C)	3.7 (2°C)	1.1 (2°C)	1.3 (2°C)
	Declared Capacity	at bivalent temperature	kW	2.5 (2°C)	3.7 (2°C)	1.1 (2°C)	1.3 (2°C)
Heating (Warmer	Сарасну	at operation limit temperature	kW	3.7 (-15°C)	5.4 (-15°C)	1.6 (-15°C)	2.0 (-15°C)
(warmer Season)	Back up heatin	g capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
0000011	Annual electricity	consumption (*2)	kWh/a	664	963	304	362
	SCOP (*4)			5.3	5.4	5.0	5.0
		Energy efficiency class		A+++	A+++	A++	A++

_											
Туре							Inverter Heat Pump				
Indoor U	nit			MSZ-HJ25VA	MSZ-HJ35VA	MSZ-HJ50VA	MSZ-HJ60VA	MSZ-HJ71VA	MSZ-DM25VA	MSZ-DM35VA	
Outdoor	Unit			MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA	MUZ-HJ60VA	MUZ-HJ71VA	MUZ-DM25VA	MUZ-DM35VA	
Refrigera	nt			R410A (*1)							
	Design load		kW	2.5	3.1	5.0	6.1	7.1	2.5	3.1	
Cooling	Annual electricity consumption (*2) kWh/a			171	212	292	354	441	149	190	
Cooming	SEER			5.1	5.1	6.0	6.0	5.6	5.8	5.7	
		Energy efficiency class		Α	Α	A ⁺	A ⁺	A ⁺	A ⁺	A ⁺	
	Design load		kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	2.5 (2°C)	2.9 (2°C)	1.1 (2°C)	1.3 (2°C)	
		at reference design temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	2.5 (2°C)	2.9 (2°C)	1.1 (2°C)	1.3 (2°C)	
	Declared Capacity	at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	2.5 (2°C)	2.9 (2°C)	1.1 (2°C)	1.3 (2°C)	
Heating (Warmer	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)	1.9 (-10°C)	2.4 (-10°C)	
(warmer Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	
0000011,	Annual electricity	Annual electricity consumption (*2) kWh/a		356	426	539	674	813	325	386	
	SCOP	SCOP			4.3	5.5	5.1	4.9	4.7	4.7	
	Energy efficiency class		A ⁺	A ⁺	A+++	A+++	A++	A++	A++		

Туре						Inverter I	leat Pump				
Indoor Ur	nit			MFZ-K	J25VE2	MFZ-K	J35VE2	MFZ-K	J50VE2		
Outdoor l	Jnit			MUFZ-KJ25VE	MUFZ-KJ25VEHZ	MUFZ-KJ35VE	MUFZ-KJ35VEHZ	MUFZ-KJ50VE	MUFZ-KJ50VEHZ		
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			102	102	150	150	266	266		
	SEER			8.5	8.5	8.1	8.1	6.5	6.5		
		Energy efficiency class		A+++	A+++	A++	A++	A++	A++		
	Design load	Design load kW			1.9 (2°C)	1.9 (2°C)	2.0 (2°C)	2.4 (2°C)	2.5 (2°C)		
		at reference design temperature	kW	1.9 (2°C)	1.9 (2°C)	1.9 (2°C)	2.0 (2°C)	2.4 (2°C)	2.5 (2°C)		
	Declared Capacity	at bivalent temperature	kW	1.9 (2°C)	1.9 (2°C)	1.9 (2°C)	2.0 (2°C)	2.4 (2°C)	2.5 (2°C)		
Heating (Warmer	Сарасну	at operation limit temperature	kW	2.4 (-15°C)	1.6 (-25°C)	2.9 (-15°C)	2.3 (-25°C)	6.0 (-15°C)	3.3 (-25°C)		
(warmer Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)		
ocason,	Annual electricity	Annual electricity consumption (*2) kWh/a			490	499	499 510		603		
	SCOP			5.1	5.1 5.4 5.3 5.4		5.4	5.8	5.7		
		Energy efficiency class	A+++	A+++	A+++	A+++	A+++	A+++			

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

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

(*3) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, it leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This remains that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 thins shigher 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.









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-M15FA (Multi split series connection only)

SLZ-M25FA

SLZ-M35FA

SLZ-M50FA

SLZ-M60FA

Panel

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



Units without Remote Controller

SEZ-M25DA

SEZ-M35DA

SEZ-M50DA

SEZ-M60DA

SEZ-M71DA

Units with Wireless Remote Controller

SEZ-M25DAL

SEZ-M35DAL

SEZ-M50DAL

SEZ-M60DAL

SEZ-M71DAL



(R410A)

There is one outdoor unit for respective indoor units.

R410A



SUZ-KA25/35VA6





SUZ-KA50/60/71VA6

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

SLZ SERIES

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

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



New lineup

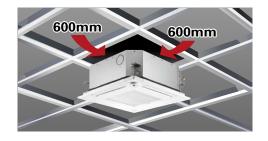
1.5kW has been introduced for multi connection. The diverse selection enables the best solution for both customer and location.

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

Beautiful design

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

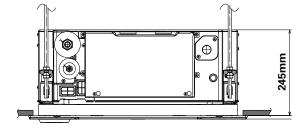
Of course, design matched 2×2 (600mm*600mm) ceiling construction specifications.



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

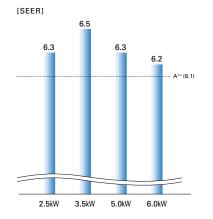
Of course, in addition to our products, replacing competitors' product is simplified too.

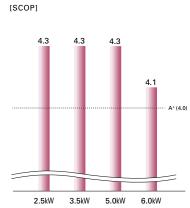


Energy-saving Performance*

The energy-saving performance achieved A++ in SEER and A+ in SCOP.

*In case of connecting with SUZ-KA-VA6





Quietness

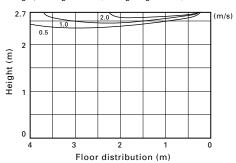
Low sound level has been realized by introduction of 3D turbo fan. New SLZ can give users quieter and move comfortable room condition.



Horizontal Airflow

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

[Airflow distribution]* SLZ-M60FA Flow angle,cooling at 20°C (ceiling height 2.7m)



*Vane angle: Horizontal

Easy installation

Temporary hanging hook

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





No need to remove screws

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

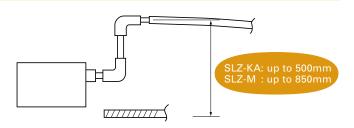




■ Control box cover

Drain lift

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



3D i-see Sensor for S & P SERIES

Detects number of people

Room occupancy energy-saving mode

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

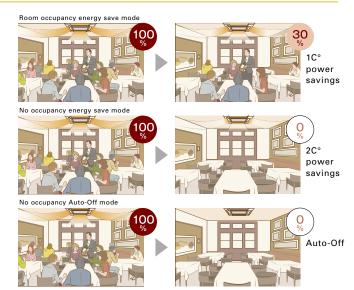
No occupancy energy-saving mode

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

No occupancy Auto-OFF mode*

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

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



*PAR-33MAA is required for each setting

Detects people's position

Direct/Indirect settings*

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



*PAR-33MAA or PAR-SL100A-E is required for each setting

Seasonal airflow*

<When cooling>

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

<When heating>

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



*PAR-33MAA is required for each setting.

Simultaneous Multi-system*

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

* Only for RA410A connection

Power Inverter Combination	n	SLZ-M35FA	SLZ-M50FA	SLZ-M60FA
PUHZ-ZRP71VHA2		Twin	_	_
	Distribution pipe	MSDD-50TR-E		
PUHZ-ZRP100V(Y)KA3		Triple	Twin	_
	Distribution pipe	MSDT-111R-E	MSDD-50TR-E	
PUHZ-ZRP125V(Y)KA3		Quadruple	Triple	Twin
	Distribution pipe	MSDF-1111R-E	MSDT-111R-E	MSDD-50TR-E
PUHZ-ZRP140V(Y)KA3		Quadruple	Triple	_
	Distribution pipe	MSDF-1111R-E	MSDT-111R-E	_

SLZ-M SERIES



















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

Panel

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



(R410A)



SUZ-KA25/35VA6

R410A)



SUZ-KA50/60VA6

Remote Controller



Enclosed in SLP-2FALM/SLP-2FALME



*optional









































necal j												
		Inverter Heat Pump										
	SLZ-M15FA	SLZ-M25FA	SLZ-M35FA	SLZ-M50FA	SLZ-M							

Type						Inverter Heat Pump	rter Heat Pump				
Indoor Ur	nit			SLZ-M15FA	SLZ-M25FA	SLZ-M35FA	SLZ-M50FA	SLZ-M60FA			
Outdoor l	Unit			for Multi connection	SUZ-KA25VA6	SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6			
Refrigera	nt					R32 / R410A*1					
Power	Source					Outdoor power supply					
Supply	Outdoor (V/Phase/H	lz)				230 / Single / 50					
Cooling	Capacity	Rated	kW	_	2.6	3.5	4.6	5.6			
	' '	Min - Max	kW	_	1.5 - 3.2	1.4 - 3.9	2.3 - 5.2	2.3 - 6.5			
	Total Input	Rated	kW	_	0.684	0.972	1.394	1.767			
	Design Load	1	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)				_	0.886	1.108	1.558	2.278			
	Design Load	1	kW 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)			
	2 coluitor capacity	at bivalent temperature	kW	_	2.0 (-7°C)	2.3 (-7°C)	3.2 (-7°C)	4.0 (-7°C)			
		at operation limit temperature	kW	_	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.0 (-10°C)			
	Back Up Heating Capacity kV			_	0.2	0.3	0.4	0.4			
	Annual Electricity Co		kWh/a	_	716	845	1172	1572			
	SCOP	лізатрион	KVVIIJU	_	4.3	4.3	4.3	4.1			
	0001	Energy Efficiency Class		_	A+	A+	A+	A+			
Operation	g Current (max)	Energy Emorency olass	Α	_	7.2	8.4	12.3	14.4			
Indoor	Input Rated		kW	0.02	0.02	0.02	0.03	0.04			
Unit	Operating Current (max)		A	0.02	0.02	0.02	0.32	0.43			
		Dimensions <panel> H × W × D</panel>		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>	111111111111111111111111111111111111111	mm kg	15 <3>	15 <3>	15 <3>	15 <3>	15 <3>			
	Air Volume [Lo-Mid-	471	m³/min	6.0 - 6.5 - 7.0	6.5 - 7.5 - 8.5	6.5 - 8.0 - 9.5	7.0 - 9.0 - 11.5	7.5 - 11.5 - 13.0			
	Sound Level (SPL) [L	'	dB(A)	24 - 26 - 28	25 - 28 - 31	25 - 30 - 34	27 - 34 - 39	32 - 40 - 43			
	Sound Level (PWL)	20-Wild-Hij	dB(A)	45	48	51	56	60			
Outdoor		H × W × D	mm	-	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330	880 - 840 - 330			
Unit	Weight	II × W × D	kg	_	30 - 300 - 203	35	54	50			
	Air Volume	Cooling	m³/min	_	32.6	36.3	44.6	40.9			
	All Volume	Heating	m³/min	_	34.7	34.8	44.6	49.2			
	Sound Level (SPL)	Cooling	dB(A)		47	49	52	55			
	Sound Level (SFL)	Heating	dB(A)	_	48	50	52				
	Cound Lovel (DMI)		dB(A)	_	58	62	65	55 65			
	Operating Current (r	Sound Level (PWL) Cooling			7.0	8.2	12.0	14.0			
	Breaker Size	iidx;	A		10	10	20	20			
Ext.	Diameter	Liquid / Gas			6.35 / 9.52	6.35 / 9.52	6.35 / 12.7				
Piping		Out-In	mm	_	20	20	30	6.35 / 15.88			
	Max. Length Max. Height	Out-In	m		12	12	30	30			
C			m	-				30			
[Outdoor]	ed Operating Range	Cooling	°C		-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46			
[OutuO01]		Heating	°C	_	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24			

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

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

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

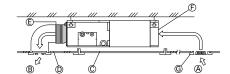




This concealed ceiling-mounted indoor unit series is compact, and fits easily into rooms with lowered ceilings. Highly reliable energy-saving performance makes it a best match choice for concealed unit installations.

Compact Ceiling-concealed Units

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



- Air inlet
- Air outlet
 Access do
- © Access door

 © Ceiling surface
- © Canvas duct
- Air filterInlet grille

Selection of Fan Speeds and Static Pressure Levels

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

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

Four Levels Available for All Models

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

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

Drain Pump (Optional)

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

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

SEZ-M SERIES

















Indoor Unit





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

Outdoor Unit

(R410A)



SUZ-KA25/35VA6

(R410A)



SUZ-KA50/60/71VA6

Remote Controller



Enclosed in SEZ-M DAL



*optional (for SEZ-M DA)



*optional (for SEZ-M DA)































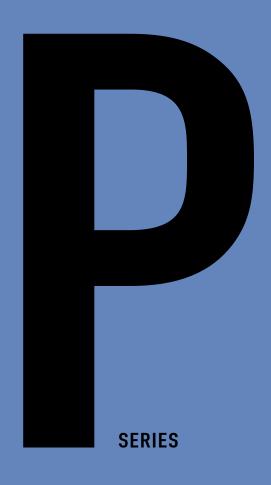
Indoor Ur	nit			SEZ-M25DA(L)	SEZ-M35DA(L)	SEZ-M50DA(L)	SEZ-M60DA(L)	SEZ-M71DA(L)		
Outdoor	Unit			SUZ-KA25VA6	SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6	SUZ-KA71VA6		
Refrigera	nt					R32 / R410A*1				
Power	Source					Outdoor power supply				
Supply	Outdoor (V/Phase/H	lz)				230 / Single / 50				
Cooling	Capacity	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	162	210	300	356	458		
	SEER*3			5.3	5.7	5.8	5.3	5.3		
		Energy Efficiency Class		А	A ⁺	A ⁺	A	A		
Heating	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 Cap	pacity	kW	0.3	0.3	0.5	1.0	0.7		
	Annual Electricity Consumption*2			808	979	1653	1878	2202		
	SCOP*3			3.8	4.0	3.9	4.1	3.8		
		Energy Efficiency Class		А	A+	A	A ⁺	A		
Operatin	g Current (max)		А	7.4	8.7	12.7	14.7	17.0		
Indoor	Input	nput Rated		0.040	0.050	0.070	0.070	0.100		
Unit	Operating Current (n	Operating Current (max)		0.4	0.5	0.7	0.7	0.9		
	Dimensions <panel></panel>	H × W × D	mm	200 - 790 - 700	200 - 990 - 700	200 - 990 - 700	200 - 1190 - 700	200 - 1190 - 700		
	Weight <panel></panel>		kg	18			27	27		
	Air Volume [Lo-Mid-H	Hi]	m³/min	6 - 7 - 9	7 - 9 - 11	10 - 13 - 15	12 - 15 - 18	12 - 16 - 20		
	External Static Press	sure	Pa	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50		
	Sound Level (SPL) [L	.o-Mid-Hi]	dB(A)	22 - 25 - 29	23 - 28 - 33	29 - 33 - 36	29 - 33 - 37	29 - 34 - 39		
	Sound Level (PWL)		dB(A)	50	53	57	58	60		
Outdoor	Dimensions	$H \times W \times D$	mm	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330	880 - 840 - 330	880 - 840 - 330		
Unit	Weight		kg	30	35	54	50	53		
	Air Volume	Cooling	m³/min	32.6	36.3	44.6	40.9	50.1		
		Heating	m³/min	34.7	34.8	44.6	49.2	48.2		
	Sound Level (SPL)	Cooling	dB(A)	47	49	52	55	55		
		Heating	dB(A)	48	50	52	55	55		
	Sound Level (PWL)	Cooling	dB(A)	58	62	65	65	69		
	Operating Current (max)		А	7.0	8.0	12.0	14.0	16.1		
	Breaker Size		Α	10	10	10 20 20		20		
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	30	30	30		
	Max. Height	Out-In	m	12	12	30	30	30		
	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46		
[Outdoor]		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24		

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

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

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

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





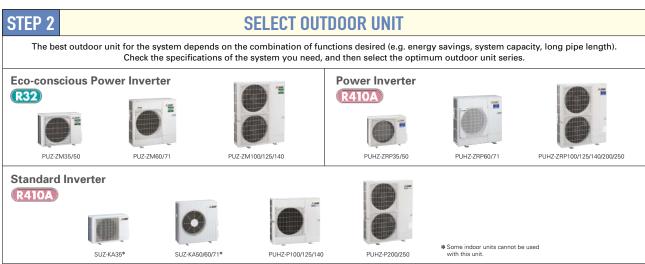




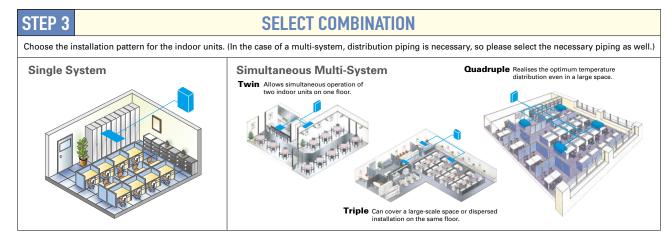
SELECTION

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.



$Connectable\ Combinations\ for\ Inverter\ Units\ (PUZ-ZM\ /\ PUHZ-ZRP\ /\ PUHZ-P)$

		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 MSDD-50TR2-E2	MSDT-111R-E MSDT-111R2-E2	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.

Eco-conscious Power Inverter SERIES

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









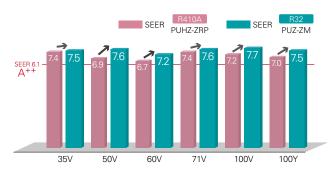
PUZ-ZM35/50VKA

PUZ-ZM60/71VHA

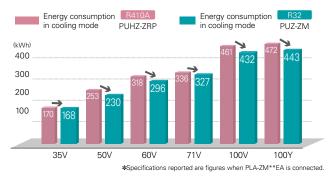
PUZ-ZM100/125/140V(Y)KA

Industry-leading energy efficiency

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



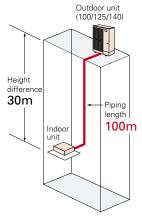
Introduction of new R32 refrigerant reduces energy consumption and realises energy savings.



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

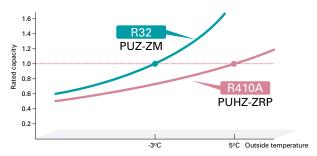
Longer piping length realised for 60, 71, 100, 125 and 140 classes, widely increasing installation flexibility.





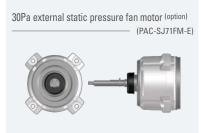
Rated heating capacity maintained down to –3°C

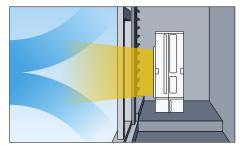
Rated heating capacity maintained even when the outside temperature is down to $-3\,^{\circ}\text{C}$. Stay warm even at times of cold weather.



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

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





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

Standard Inverter SERIES

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





Light weight and compact size

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



Unobstructive, compact, and easy to hide from view

Conventional 2-fan type outdoor units may spoil the view. Due to its compact size, the new model can be installed in locations that 2-fan type is not suitable.





Easy transportation and installation



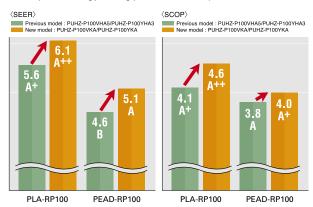


Transport efficiency improves thanks to its low height. The unit can even be transported by minivan.

Improvement of energy-saving performance

High seasonal energy efficiency ratio (SEER) and seasonal coefficient of performances (SCOP) are made possible even with its compact size.

The superior energy-saving performance helps reduce costs.



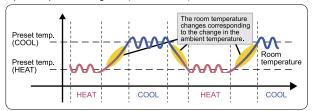
Dual Set Point

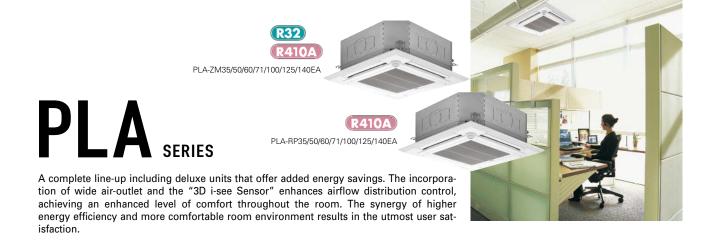
A MEMORY THE STOTE OF THE STOT

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 COOL or HEAT mode and keep the room temperature within the preset range.

Operation pattern during Auto (Dual Set Point) mode





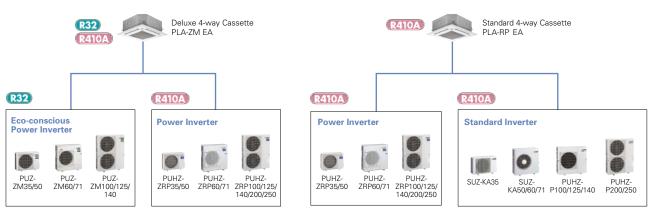
Deluxe 4-way Cassette Line-up

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

■Line-up

Series Model	35	50	60	71	100	125	140
Parameter (PLA-ZM)							
R410A Standard 4-way Cassette (PLA-RP)				•	•		

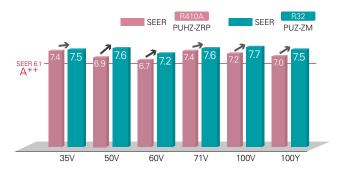
■Indoor/Outdoor Unit Combinations

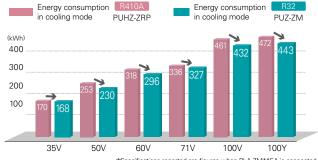


Industry-leading energy efficiency

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

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

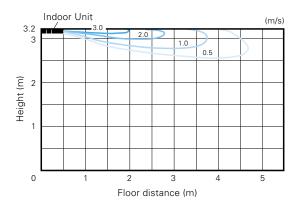




Horizontal Airflow

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

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

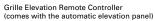




Automatic Grille Lowering Function (PLP-6EAJ)

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







Wired Remote Controller



Wireless Remote Controller



Easy Installation

Electrical box wiring

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





■ New model (E Series)



Increased space for plumbing work

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

■ Previous model (B Series)



■ New model (E Series)



Temporary hanging hook

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





No need to remove screws

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

■ Corner panel



■ Control box cover



Lightweight decorative panel

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



3D i-see Sensor for S & P SERIES

Detects number of people

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

Detects people's position

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

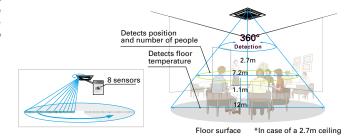


Detects number of people



Detects people's position





Detects number of people

Room occupancy energy-saving mode

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

No occupancy energy-saving mode

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

No occupancy Auto-OFF mode*

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

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

Room occupancy energy save mode No occupancy energy save mode 100 %











*PAR-33MAA is required for each setting

Detects people's position

Direct/Indirect settings*

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



*PAR-33MAA or PAR-SL100A-E is required for each setting

Seasonal airflow*

<When cooling>

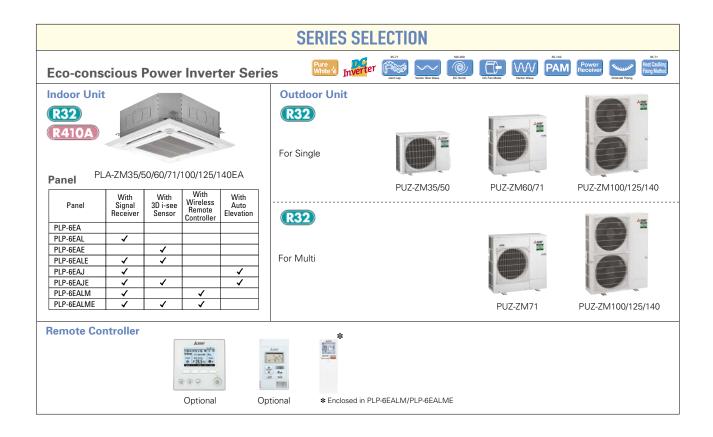
Saves energy while keeping a comfortable effective temperature by automatically switching between ventilation and cooling. When a pre-set temperature is reached, the air conditioning unit switches to swing fan operation to maintain the effective temperature. This clever function contributes to keeping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

<When heating>

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



*PAR-33MAA is required for each setting.



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

		Outdoor Unit Capacity																			
Indoor Unit Combination			For Single									For Twin					For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Power Inverter (PUZ-ZM)		50x1	60x1	71x1	100x1	125x1	140×1	-	-	35x2	50x2	60x2	71x2	-	-	50x3	-	-	-	-
Distribution Pipe							MSDD-50TR2-E –				-	MSDT-111R2-E			-	-					































	60-140V/2
Silent	Amp



















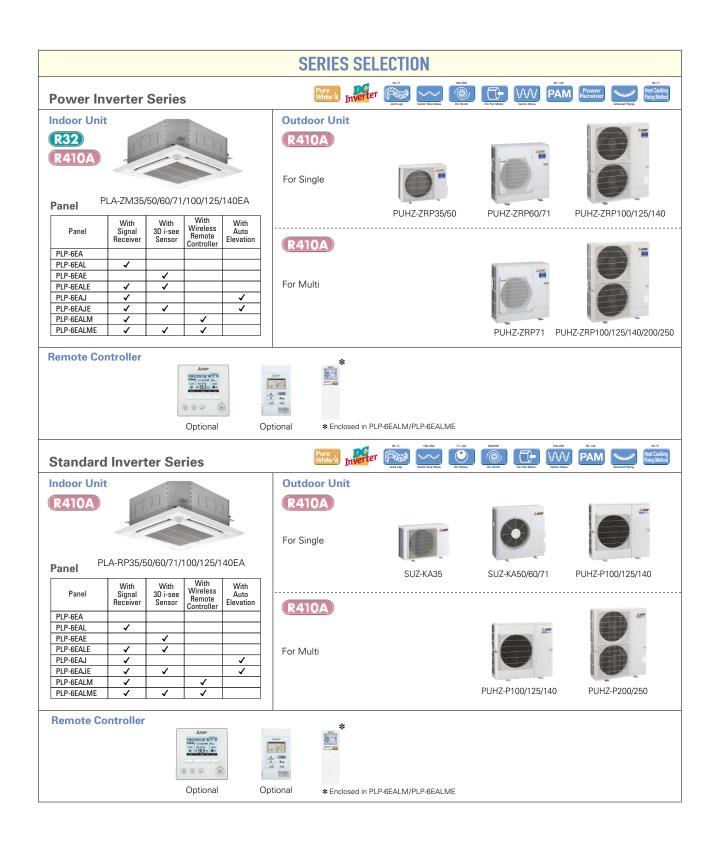




e.			
	ailur	е	

				.,									
Туре								Inverter I	leat Pump				
ndoor Ur	nit			PLA- ZM35EA	PLA- ZM50EA	PLA- ZM60EA	PLA- ZM71EA	PLA-ZN	/100EA	PLA-ZN	/125EA	PLA-ZN	1140EA
Outdoor	Unit			PUZ- ZM35VKA	PUZ- ZM50VKA	PUZ- ZM60VHA	PUZ- ZM71VHA	PUZ- ZM100VKA	PUZ- ZM100YKA	PUZ- ZM125VKA	PUZ- ZM125YKA	PUZ- ZM140VKA	PUZ- ZM140YK
lefrigera	nt				•		•	R3	2*1	•	•	•	
ower	Source								ower supply				
Supply	Outdoor (V/Phase	/Hz)					VKA • VH	A:230 / Single /	50, YKA:400 / 1	Three / 50			
ooling	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.
	Total Input	Rated	kW	0.705	1.106	1.452	1.651	2.065	2.065	3.378	3.378	3.722	3.722
	EER			5.10	4.52	4.20	4.30	4.60	4.60	3.70	3.70	3.60	3.60
		EEL Rank		-	-	-	-	-	-	-	-	-	_
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	_
	Annual Electricity	Consumption*2	kWh/a	168	230	296	327	432	443	-	-	-	-
	SEER	•		7.5	7.6	7.2	7.6	7.7	7.5	-	-	-	_
		Energy Efficiency Class		A++	A++	A++	A++	A++	A++	-	-	-	-
leating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
Average		Min - Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.
eason)	Total Input	Rated	kW	0.820	1.363	1.707	1.818	2.604	2.604	3.674	3.674	4.312	4.312
	COP	•		5.00	4.40	4.10	4.40	4.30	4.30	3.81	3.81	3.71	3.71
Ī		EEL Rank		-	-	-	-	-	-	-	-	-	_
	Design Load		kW	2.5	3.8	4.4	4.7	7.8	7.8	-	-	-	-
	Declared Capacity	at reference design temperature	kW	2.5 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	-	-	-	_
		at bivalent temperature	kW	2.5 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	-	-	-	-
		at operation limit temperature	kW	2.1 (-11°C)	3.7 (-11°C)	2.8 (-20°C)	3.5 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	-	-	-	_
	Back Up Heating C		kW	0	0	0	0	0	0	-	-	-	_
	Annual Electricity	Consumption*2	kWh/a	745	1083	1339	1370	2277	2277	-	-	-	-
	SCOP			4.7	4.9	4.6	4.8	4.8	4.8	-	-	-	_
		Energy Efficiency Class		A++	A++	A++	A++	A++	A++	-	-	-	-
	g Current (max)		A	13.2	13.2	19.2	19.3	27.0	8.5	27.0	10.0	28.7	13.7
	Input	Rated	kW	0.03	0.03	0.03	0.05	0.07	0.07	0.08	0.08	0.10	0.10
Init	Operating Current		A	0.21	0.22	0.22	0.34	0.47	0.47	0.52	0.52	0.66	0.66
	Dimensions <panel></panel>	H×W×D	mm	258 - 84	0 - 840 <40 - 95	50 - 950>				0 - 840 <40 - 95			
	Weight <panel></panel>		kg		21 <5>		24 <5>	26 <5>	26 <5>	26 <5>	26 <5>	26 <5>	26 <5>
	Air Volume [Lo-Mi2		m³/min	11-13-15-16	12-14-16-18	12-14-16-18	17-19-21-23	19-22-25-28	19-22-25-28	21-24-26-29	21-24-26-29	24-26-29-32	24-26-29
	Sound Level (SPL)		dB(A)		27-29-31-32							36-39-42-44	
	Sound Level (PWL		dB(A)	51	54	54	57	61	61	62	62	65	65
utdoor	Dimensions	H × W × D	mm		09 - 300		- 330 (+25)	110	100		0 - 330 (+40)	110	10:
Init	Weight	la "	kg	46	46	70	70	116	123	116	125	118	131
	Air Volume	Cooling	m³/min	45	45	55	55	110	110	120	120	120	120
		Heating	m³/min	45	45	55	55	110	110	120	120	120	120
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	49	49	50	50	50	50
	0 11 1/5	Heating	dB(A)	46 65	46	49	49	51	51	52 70	52 70	52 70	52 70
	Sound Level (PWL)		dB(A)		65	67	67	69	69	70 26.5		70 28.0	70 13.0
	Operating Current	(max)	A	13.0	13.0	19.0	19.0	26.5	8.0		9.5		
	Breaker Size	lia	Α	16	16	25	25	32	16	32	16	40	16
xt.	Diameter	Liquid / Gas	mm		/ 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.
iping	Max. Length	Out-In	m	50	50	55	59	100	100	100	100	100	100
	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +4
Outdoor	I	Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +2

^{**}Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (QC + 21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -20 - +21 | -2



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

										Outd	oor Ui	nit Ca _l	pacity								
Indoor	Unit Combination				Fo	or Sing	gle						For	Twin			Fo	or Trip	le	For Qu	adruple
	Pourer Inventor (PLIMZ 7PP)			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	140×1	-	-	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe		_	-	_	_	-	-	-	-	N	MSDD-	50TR-	E	MSDD-	50WR-E	MSI	DT-111	IR-E	MSDF-1	1111R-E
Standa	rd Inverter (SUZ & PUHZ-P)	35x1	50x1	60×1	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	IR-E	MSDF-1	1111R-E























































Failure	

Туре								Inverter H	leat Pump				
Indoor Ur	nit			PLA-	PLA-	PLA-	PLA-	PLA-ZN	4100EA	DI A 74	/125EA	PLA-ZN	114054
				ZM35EA	ZM50EA	ZM60EA	ZM71EA	PLA-ZIV	1100EA	PLA-ZIV	/II25EA	PLA-ZIV	1140EA
Outdoor	Unit			PUHZ- ZRP35VKA2	PUHZ- ZRP50VKA2	PUHZ- ZRP60VHA2	PUHZ- ZRP71VHA2	PUHZ- ZRP100VKA3	PUHZ- 7RP100YKA3	PUHZ- 7RP125VKA3	PUHZ- 7RP125YKA3	PUHZ- ZRP140VKA3	PUHZ- ZRP140YKA3
Refrigera	nt			ZIII JJVKAZ	2111 00 110 12	2111 00 1111/12	2111711712	R41		2111 12011010	2.11 12011010	2111 1 10 110 10	2111 1 10 110 10
Power	Source							Outdoor po					
	Outdoor (V/Phase	/H ₇)					VKA • VH	A:230 / Single /		Three / 50			
		Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
Cooling	Capacity	Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.5	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0
	Total Input	Rated	kW	0.78	1.33	1.66	1.79	2.20	2.20	3.84	3.84	4.36	4.36
	EER	Inateu	LVV	-	-	1.00	-	-	-	3.25	3.25	3.07	3.07
		EEL Rank			_		_	_		- 3.23	- 5.25	3.07	-
	Design Load	LLL Naiik	kW	3.6	5.0	6.1	7.1	9.5	9.5	_	_	_	_
	Annual Electricity	Concumption*2	kWh/a	170	253	318	336	461	472	_	_		
	SEER	Consumption	KVVII/a	7.4	6.9	6.7	7.4	7.2	7.0	_	_	_	_
		Energy Efficiency Class		Δ++	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	oupucity	Min - Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Season)	Total Input	Rated	kW	0.85	1.55	1.89	1.90	2.60	2.60	3.67	3.67	4.84	4.84
	COP	riatoa		-	-	-	-	-	-	3.81	3.81	3.30	3.30
		EEL Rank		_	_	_	_	_	_	_	-	-	-
	Design Load		kW	2.5	3.8	4.4	4.7	7.8	7.8	_	_	_	_
		at reference design temperature	kW	2.5 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	_	_	_	_
		at bivalent temperature	kW	2.5 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	_	_	_	_
		at operation limit temperature	kW	2.1 (-11°C)	3.7 (-11°C)	2.8 (-20°C)	3.5 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	_	_	_	_
	Back Up Heating C		kW	0	0	0	0	0	0	_	-	_	_
	Annual Electricity	Consumption*2	kWh/a	714	1109	1337	1342	2229	2229	-	-	-	-
	SCOP			4.9	4.8	4.6	4.9	4.9	4.9	-	-	-	_
		Energy Efficiency Class		A++	A++	A++	A++	A++	A++	-	-	-	_
Operatin	g Current (max)		Α	13.2	13.2	19.2	19.3	27.0	8.5	27.0	10.0	28.7	13.7
Indoor	Input	Rated	kW	0.03	0.03	0.03	0.05	0.07	0.07	0.08	0.08	0.10	0.10
Unit	Operating Current	(max)	Α	0.21	0.22	0.22	0.34	0.47	0.47	0.52	0.52	0.66	0.66
	Dimensions <panel></panel>	$H \times W \times D$	mm	258 - 84	0 - 840 <40 - 95	50 - 950>				0 - 840 <40 - 95			
	Weight <panel></panel>		kg		21 <5>		24 <5>	26 <5>	26 <5>	27 <5>	27 <5>	27 <5>	27 <5>
	Air Volume [Lo-Mi2		m³/min			12-14-16-18	17-19-21-23	19-22-25-28	19-22-25-28	21-24-26-29	21-24-26-29	24-26-29-32	24-26-29-32
	Sound Level (SPL)		dB(A)		27-29-31-32							36-39-42-44	
	Sound Level (PWL)		dB(A)	51	54	54	57	61	61	62	62	65	65
Outdoor	Dimensions	H × W × D	mm	630 - 80			330 (+30)				330 (+40)		
Unit	Weight		kg	43	46	70	70	116	123	116	125	118	131
	Air Volume	Cooling	m³/min	45	45	55	55	110	110	120	120	120	120
		Heating	m³/min	45	45	55	55	110	110	120	120	120	120
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	49	49	50	50	50	50
		Heating	dB(A)	46	46	48	48	51	51	52	52	52	52
	Sound Level (PWL)		dB(A)	65	65	67	67	69	69	70	70	70	70
	Operating Current	(max)	A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size	II: :1/0:	A	16	16	25	25	32	16	32	16 9.52 / 15.88	40 9.52 / 15.88	16 9.52 / 15.88
Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88			
riping	Max. Length	Out-In	m	50 30	50	50	50 30	75 30	75	75	75 30	75	75 30
C	Max. Height	Out-In	m		30	30		-15 ~ +46	30	30		30	-15 ~ +46
[Outdoor	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46		-15 ~ +46 -20 ~ +21	-15 ~ +46	-15 ~ +46	-15 ~ +46	
[Outdoor	l	Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21

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

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

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































































		_	Optional	Optional	Optional	Optional	Opt	onal		Optional			
Type								Inverter H	eat Pump				
Indoor Ur	nit			PLA- RP35EA	PLA- RP50EA	PLA- RP60EA	PLA- RP71EA	PLA-RF	2100EA	PLA-RF	P125EA	PLA-RF	°140EA
Outdoor	Unit			SUZ- KA35VA6	SUZ- KA50VA6	SUZ- KA60VA6	SUZ- KA71VA6	PUHZ- P100VKA	PUHZ- P100YKA	PUHZ- P125VKA	PUHZ- P125YKA	PUHZ- P140VKA	PUHZ- P140YKA
Refrigera	int							R41	0A*1				
	Source								wer supply				
Supply	Outdoor (V/Phase	e/Hz)					VA • VKA	:230 / Single / 5	50, YKA:400 / Th	ree / 50			
Cooling	Capacity	Rated	kW	3.6	5.5	5.7	7.1	9.4	9.4	12.1	12.1	13.6	13.6
		Min - Max	kW	1.4 - 3.9	2.3 - 5.6	2.3 - 6.3	2.8 - 8.1	3.7 - 10.6	3.7 - 10.6	5.6 - 13.0	5.6 - 13.0	5.8 - 14.1	5.8 - 14.1
	Total Input	Rated	kW	1.02	1.61	1.76	2.10	3.18	3.18	4.10	4.10	5.41	5.41
	EER	•		-	-	-	-	2.95	2.95	2.95	2.95	2.51	2.51
		EEL Rank		-	-	-	-	-	-	-	-	-	
	Design Load		kW	3.6	5.5	5.7	7.1	9.4	9.4	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	181	295	307	400	538	538	-	-	-	-
	SEER			6.9	6.5	6.5	6.2	6.1	6.1	-	-	-	-
		Energy Efficiency Class		A++	A++	A++	A++	A++	A++		-		
Heating	Capacity	Rated	kW	4.1	5.8	6.9	8.0	11.2	11.2	13.5	13.5	15.0	15.0
(Average		Min - Max	kW	1.7 - 5.0	1.7 - 7.2	2.5 - 8.0	2.6 - 10.2	2.8 - 12.5	2.8 - 12.5	4.8 - 15.0	4.8 - 15.0	4.9 - 15.8	4.9 - 15.8
Season)	Total Input	Rated	kW	1.00	1.69	1.97	2.24	3.26	3.26	3.84	3.84	4.67	4.67
	COP			-	-	-	-	3.43	3.43	3.51	3.51	3.21	3.21
		EEL Rank		-	-	-	-		-	_	-	-	-
	Design Load	To describe the second	kW	2.6	4.3	4.6	5.8	8.0	8.0	-	-	-	-
	Declared Capacity	at reference design temperature	kW	2.3 (-10°C)	3.8 (-10°C)	4.0 (-10°C)	4.7 (-10°C)	6.0 (-10°C)	6.0 (-10°C)	_	-	-	-
		at bivalent temperature	kW	2.3 (-7°C)	3.8 (-7°C)	4.1 (-7°C)	5.1 (-7°C)	7.0 (–7°C)	7.0 (–7°C)	-	-	-	-
	Back Up Heating (at operation limit temperature	kW kW	2.3 (-10°C) 0.3	3.8 (-10°C) 0.5	4.0 (-10°C) 0.6	4.7 (-10°C) 1.1	4.5 (-15°C) 2.0	4.5 (-15°C) 2.0	_	_	_	
	Annual Electricity		kWh/a	826	1505	1498	1888	2432	2432			_	
	SCOP	Consumption	KVVII/a	4.4	4.0	4.3	4.3	4.6	4.6	_	_	_	_
	3001	Energy Efficiency Class		A+	A+	A+	A+	A++	A++		_	_	_
Operation	ng Current (max)	Energy Emiciency Glass	I A	8.4	12.2	14.2	16.4	20.5	12.0	27.2	12.2	30.7	12.2
Indoor	Input	Rated	kW	0.03	0.03	0.03	0.04	0.07	0.07	0.10	0.10	0.10	0.10
Unit	Operating Current		A	0.20	0.22	0.24	0.27	0.46	0.46	0.66	0.66	0.66	0.66
	Dimensions <panel></panel>		mm	2	58 - 840 - 840 <	<40 - 950 - 950:	>		298 - 84	0 - 840 <40 - 95	50 - 950>		
	Weight <panel></panel>	•	kg	19 <5>	19 <5>	21 <5>	21 <5>	24 <5>	24 <5>	26 <5>	26 <5>	26 <5>	26 <5>
	Air Volume [Lo-Mi	2-Mi1-Hi]	m³/min		12-14-16-18			19-23-26-29			21-25-28-31	24-26-29-32	24-26-29-32
	Sound Level (SPL)	[Lo-Mi2-Mi1-Hi]	dB(A)	26-28-29-31	27-29-31-32	27-29-31-32	28-30-32-34	31-34-37-40	31-34-37-40	33-37-41-44	33-37-41-44	36-39-42-44	36-39-42-44
	Sound Level (PWL		dB(A)	51	54	54	56	61	61	65	65	65	65
	Dimensions	$H \times W \times D$	mm	550 - 800 - 285		880 - 840 - 330					50 - 330		
Unit	Weight		kg	35	54	50	53	76	78	84	85	84	85
	Air Volume	Cooling	m³/min	36.3	44.6	40.9	50.1	79	79	86	86	86	86
		Heating	m³/min	34.8	44.6	49.2	48.2	79	79	92	92	92	92
	Sound Level (SPL)		dB(A)	49	52	55	55	51	51	54	54	56	56
		Heating	dB(A)	50	52	55	55	54	54	56	56	57	57
	Sound Level (PWL)		dB(A)	62	65	65	69	70	70	72	72	75	75
	Operating Current	t (max)	A	8.2	12.0	14.0 20	16.1	20 32	11.5	26.5	11.5	30.0 40	11.5
Ext.	Breaker Size	Liquid / Gas	Α	10 6.35 / 9.52	20 6.35 / 12.7	6.35 / 15.88	20 9.52 / 15.88	9.52 / 15.88	16 9.52 / 15.88	32 9.52 / 15.88	16 9.52 / 15.88	9.52 / 15.88	16 9.52 / 15.88
Ext. Pipina	Diameter		mm						9.52 / 15.88		9.52 / 15.88		
	Max. Length	Out-In	m	20	30 30	30 30	30 30	50 30	30	50 30	30	50 30	50 30
	Max. Height	Out-In	°C	12							-15 ~ +46	-15 ~ +46	-15 ~ +46
Guarante	ed Operating Range	I Coolina*°	ı ~C	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	I −15 ~ +46	I −15 ~ +46	I −15 ~ +46

Operating Range Cooling* Heating °C -10~+46 -15 *1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP; I leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

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

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



























DI 7	DD	Optional	Optional			Optional							
POWER	KP SERIES	Silent	Ampere Limit	Rotation Back-up Optional	Group Contro	M-NET connection Optional	COMPO Wi-		Cleaning-tree, V	Viring Drain Reuse Lift U _l	Pump Down	Flare connection Diag	Self gnosis Failure Recall
Туре								Inverter H	eat Pump				
Indoor Ur	nit			PLA- RP35EA	PLA- RP50EA	PLA- RP60EA	PLA- RP71EA		P100EA	PLA-RF	2125EA	PLA-RF	P140EA
Outdoor	Unit			PUHZ- ZRP35VKA2	PUHZ- ZRP50VKA2	PUHZ- ZRP60VHA2	PUHZ- ZRP71VHA2	PUHZ- ZRP100VKA3	PUHZ- ZRP100YKA3	PUHZ- ZRP125VKA3	PUHZ- ZRP125YKA3	PUHZ- ZRP140VKA3	PUHZ- ZRP140YKA3
Refrigera	nt							R41	0A*1				
	Source Outdoor (V/Phase	/U-)					VKΔ • VH		ower supply	hree / 50			
			I 13A/	3.6	5.0	6.1	7.1	9.5			12.5	10.4	13.4
Cooling	Capacity	Rated	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.5	3.3 - 8.1		9.5	12.5 5.5 - 14.0	5.5 - 14.0	13.4 6.2 - 15.0	6.2 - 15.0
	T	Min - Max	kW	0.83	1.42	1.75	1.87	4.9 - 11.4 2.23	4.9 - 11.4 2.23	3.87	3.87	4.39	4.39
	Total Input EER	Rated	KVV	0.83	1.42	1./5	1.87	2.23	2.23	3.23	3.87	3.05	3.05
	EER	EEL Rank			_					3.23	3.23	3.05	3.05
	Design Load	EEL RANK	l kW	3.6	5.0	6.1	7.1	9.5	9.5	_			-
	Annual Electricity	C*?	kWh/a	174	258	321	341	465	476	_		-	-
		Consumption	[KVVII/a	7.2	6.7	6.6	7.2	7.1	6.9			-	-
	SEER	Energy Efficiency Class		7.2 A++	0.7 A++	0.6 A++	7.2 A++	7.1 A++	6.9 A++	_			-
	0	Rated	l kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
Heating (Average	Capacity	Min - Max	kW	1.6 - 5.8	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Season)	Total Input	Rated	kW	0.92	1.81	2.07	2.11	2.69	2.69	3.77	3.77	4.90	4.90
Ocason,	COP	nated	KVV	0.92	1.81	2.07	Z.11 -	2.09	2.09	3.71	3.71	3.26	3.26
	COF	EEL Rank			_	_	_	_	_	3.71	3.71	3.20	3.20
	Danian Land	EEL RANK	l kW	2.5	3.8	4.4	4.7	7.8	7.8	_			-
	Design Load	at reference design temperature		2.5 (–10°C)	3.8 (–10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (–10°C)	7.8 (–10°C)	_			-
	Deciared Capacity		kW	2.5 (=10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (–10°C)	7.8 (–10°C)	_			
		at bivalent temperature	kW	2.1 (–11°C)	3.7 (–11°C)	2.8 (–20°C)	3.5 (–20°C)	5.8 (–20°C)	5.8 (–20°C)	_			
	D	at operation limit temperature	kW			0			0.8 (-20°C)	_	_		
	Back Up Heating C Annual Electricity		kWh/a	0 764	1212	1418	1402	0 2468	2468	_			
	SCOP	Consumption	[KVVII/a	4.5	4.3	4.3	4.6	4.4	4.4	_		-	-
	SCOP	Energy Efficiency Class		4.5 A+	4.3 A+	4.3 A+	4.6 A++	4.4 A+	4.4 A+	_			-
0	g Current (max)	Energy Emiciency Class	ΙA	13.2	13.2	19.2	19.3	27.0	8.5	27.2	10.2	28.7	13.7
Indoor		Rated	kW	0.03	0.03	0.03	0.04	0.07	0.07	0.10	0.10	0.10	0.10
Unit	Input Operating Current		A	0.03	0.03	0.03	0.04	0.46	0.46	0.10	0.66	0.10	0.66
Oiiit	Dimensions <panel></panel>		mm		58 - 840 - 840			0.40		98 - 840 - 840 -			0.00
	Weight <panel></panel>	I H X W X D	kg	19 <5>	19 <5>	21 <5>	21 <5>	24 <5>	24 <5>	26 <5>	26 <5>	26 <5>	26 <5>
	Air Volume [Lo-Mi2	2 M/(1 LI)	m³/min		12-14-16-18			19-23-26-29				24-26-29-32	
	Sound Level (SPL)		dB(A)	26-28-29-31	27-29-31-32			31-34-37-40		33-37-41-44		36-39-42-44	
	Sound Level (PWL		dB(A)	51	54	54	56	61	61	65	65	65	65
Outdoor	Dimensions	H × W × D	mm		09 - 300		- 330 (+30)	01	01	1338 - 1050		03	
Unit	Weight	III A VV X D	kg	43	46	70	70	116	123	116	125	118	131
	Air Volume	Cooling	m³/min	45	45	55	55	110	110	120	120	120	120
	All Volume	Heating	m³/min	45	45	55	55	110	110	120	120	120	120
	Sound Level (SPL)	Cooling	dB(A)	45	44	47	47	49	49	50	50	50	50
	Southu Level (SFL)	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 A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size	(IIIQA)	A	16	16	25	25	32	16	32	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
∟XI.	Diailletel	Liquid / UdS	1 1111111	0.30 / 12./	0.30 / 12./	0.02 / 10.00	0.02 / 10.00	0.02 / 10.00	1 9.02 / 10.00	0.02 / 10.00	0.02 / 10.00	0.02 / 10.00	0.02/10.00

^{| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100}

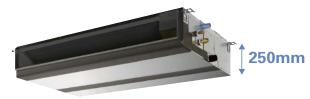




The thin, ceiling-concealed indoor units of this series are the perfect answer for the air conditioning needs of buildings with minimum ceiling installation space and wide-ranging external static pressure. Energy-saving efficiency has been improved, reducing electricity consumption and contributing to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

Compact Indoor Units

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



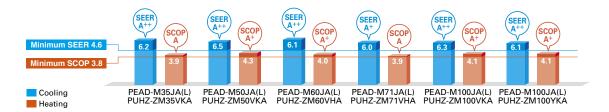
PEAD-M JA(L)

External Static Pressure

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

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

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



Drain Pump Option Available with All Models

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



PEAD-M JA → Drain pump built-in



PEAD-M JAL → No drain pump

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



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

										Outd	oor Uı	nit Ca _l	oacity								
Indoor	Unit Combination				Fo	or Sing	jle						For	Twin			Fo	or Trip	le	For Qu	adruple
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Power Inverter (PUZ-ZM)		50x1	60x1	71x1	100x1	125x1	140x1	-	-	35x2	50x2	60x2	71x2	-	_	50x3	-	-	-	-
	Distribution Pipe	_	_	_	_	_	_	_	-	_	N	1SDD-	50TR2-	-E	-	_	MSE)T-111	R2-E	-	

































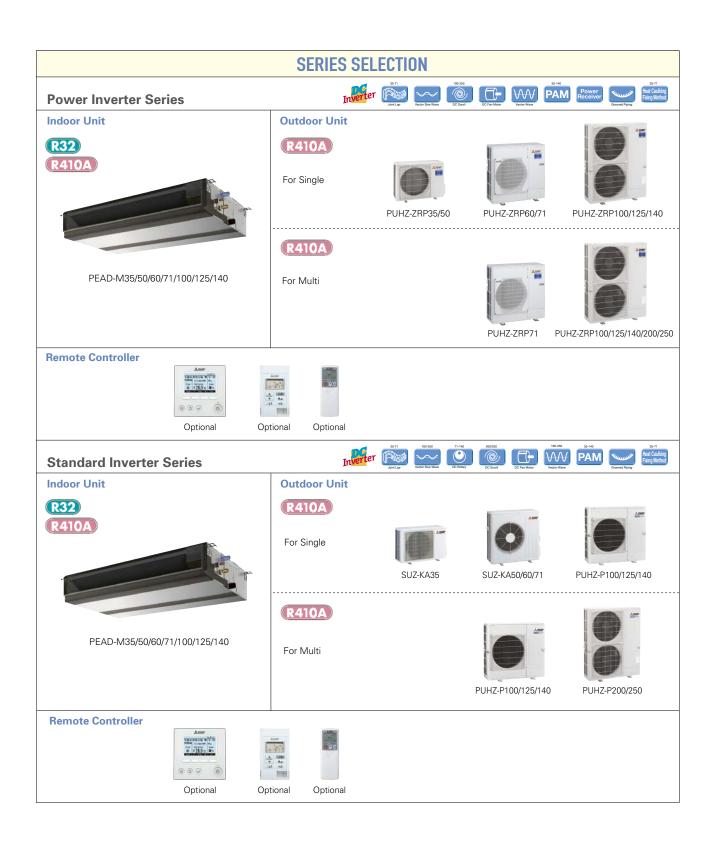






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	Failure	
Self		
sis.	Hecal	

	www.murroverd-ore-Ultration.	eam.	Optional										
Туре								nverter Heat P	ump				
ndoor Ur	nit			PEAD- M35JA(L)	PEAD- M50JA(L)	PEAD- M60JA(L)	PEAD- M71JA(L)	PEAD-M	100JA(L)	PEAD-M	125JA(L)	PEAD-M	140JA(L)
utdoor	Jnit			PUZ- ZM35VKA	PUZ- ZM50VKA	PUZ- ZM60VHA	PUZ- ZM71VHA	PUZ- ZM100VKA	PUZ- ZM100YKA	PUZ- ZM125VKA	PUZ- ZM125YKA	PUZ- ZM140VKA	PUZ- ZM140YKA
efrigera					•	•	•	R3			•		
ower	Source							Outdoor po	wer supply				
Supply	Outdoor (V/Phase)	/Hz)						A:230 / Single /					
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.3	6.2 - 15.3
	Total Input	Rated	kW	0.837(0.820)	1.201(1.187)	1.509(1.495)	1.858(1.844)	2.272(2.256)	2.272(2.256)	3.333(3.315)	3.333(3.315)	3.631(3.611)	3.631(3.61
	EER*5			4.30(4.39)	4.16(4.21)	4.04(4.08)	3.82(3.85)	4.18(4.21)	4.18(4.21)	3.75(3.77)	3.75(3.77)	3.69(3.71)	3.69(3.71
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	_
	Annual Electricity	Consumption*2	kWh/a	217(201)	282(268)	350(337)	428(414)	534(521)	543(532)	-	-	-	-
	SEER*5			5.8(6.2)	6.2(6.5)	6.1(6.3)	5.8(6.0)	6.2(6.3)	6.1(6.2)	_	-	-	-
		Energy Efficiency Class		A+(A++)	A++(A++)	A++(A++)	A+ (A+)	A++(A++)	A++(A++)	-	_	-	-
leating	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
eason)	Total Input	Rated	kW	0.917	1.312	1.616	1.932	2.598	2.598	3.349	3.349	3.970	3.970
	COP*5			4.47	4.57	4.33	4.14	4.31	4.31	4.18	4.18	4.03	4.03
		EEL Rank		-	-	-	-	-	-	-	-	_	-
I J Operating	Design Load		kW	2.4	3.8	4.4	4.9	7.8	7.8	-	-	-	-
	Declared Capacity	at reference design temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.9 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	-	-	-	-
		at bivalent temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.9 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	-	-	_	-
		at operation limit temperature	kW	2.2 (-11°C)	3.7 (-11°C)	2.8 (-20°C)	3.7 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	-	-	-	-
	Back Up Heating C		kW	0	0	0	0	0	0	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	858	1237	1540	1751	2666	2666	-	-	_	-
	SCOP*5			3.9	4.3	4.0	3.9	4.1	4.1	-	-	-	-
		Energy Efficiency Class		A	A+	Α+	A	A+	A+	_	-	-	
	g Current (max)		A	14.1	14.4	20.6	21.0	29.2	10.7	29.3	12.3	30.8	15.8
ndoor	Input [Cooling / Hea		kW	0.09/0.07	0.11/0.09	0.12/0.10	0.17/0.15	0.25/0.23	0.25/0.23	0.36/0.34	0.36/0.34	0.39/0.37	0.39/0.37
Jnit	Operating Current		Α	1.07	1.39	1.62	1.97 00-732	2.65	2.65	2.76	2.76	2.78	2.78
	Dimensions <panel></panel>	H × W × D	mm					00 (00)		00-732	10 (00)		00-732
	Weight <panel></panel>	11.121	kg m³/min	26 (25)	27 (26) 12.0-14.5-17.0	30 (29)	30 (29)	39 (38)	39 (38)	40 (39)	40 (39)	44 (43) 32.0-39.0-46.0	44 (43)
	Air Volume [Lo-Mic		Pa	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	32.0-39.0-4
	External Static Pre Sound Level (SPL)		dB(A)	23 - 27 - 30	26 - 31 - 35	25 - 29 - 33	26 - 30 - 34	35 / 50 / /C 29 - 34 - 38	/ 100 / 150 29 - 34 - 38	33 - 36 - 40	33 - 36 - 40	34 - 38 - 43	34 - 38 - 4
	Sound Level (SPL)		dB(A)	54	59	55	58	62	62	66	66	67	67
Jutdocr	Dimensions	l H × W × D	mm	630 - 80		943 - 950		02	02) - 330 (+40)	07	. 0/
Jnit	Weight	IUXAAXD	ka	46	1 46	70	70	116	123	116	125	118	131
	Air Volume	Cooling	m³/min	45	45	55	55	110	110	120	120	120	120
	All Volume	Heating	m³/min	45	45	55	55	110	110	120	120	120	120
	Sound Level (SPL)	Cooling	dB(A)	44	43	47	47	49	49	50	50	50	50
	Count Level (SFL)	Heating	dB(A)	46	46	49	49	51	51	52	52	52	52
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	69	69	70	70	70	70
	Operating Current		A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size	(11102)	A	16	16	25	25	32	16	32	16	40	16
xt.	Diameter	Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.8
Piping	Max. Length	Out-In	m	50	50	55	55	100	100	100	100	100	100
	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
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	°Č	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21
		Tricating		11 121	11. 1721	20 - 121	20 - 121	20 - 121	20 - 121	20 - 121	20 - 121	20 - 121	20 1121



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

										Outd	oor U	nit Ca _l	pacity								
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	Power Inverter (PUHZ-ZRP)		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	_	_	-	-	-	-	-	-	-	- MSDD-50TR-E		MSDD-	50WR-E	MS	DT-111	1R-E	MSDF-1	1111R-E		









































Peach Peac		www.eurovers.com/ultration	*******	Optional											
MSSAME				Inverter Heat Pump											
Refrigerant Source Sourc	Indoor Unit								PEAD-M100JA(L)		PEAD-M125JA(L)		PEAD-M140JA(L)		
Source									ZRP100VKA3	ZRP100YKA3	PUHZ- ZRP125VKA3	PUHZ- ZRP125YKA3	PUHZ- ZRP140VKA3	PUHZ- ZRP140YKA3	
Cooling Cool	Refrigera	nt					•	•	R41	0A*1	•	•	•		
Cooling Capacity Bated IAW 3.6 5.0 6.1 7.1 9.5 9.5 12.5 12.5 12.5 13.4 13.4 13.4 Total Input Refed IAW 0.99(0.87) 1.44(1.42) 1.66(1.63) 2.01(1.99) 2.43(2.41) 2.43(2.41) 3.86(1.83) 3.86(1.83) 3.86(1.83) 3.26(1.83) 3.10(1.23) 3.10(1.12) 3.10(1.12) 1.44(1.42) 1.66(1.63) 2.01(1.99) 2.43(2.41) 2.43(2.41) 3.86(1.83) 3.86(1.83) 3.26(Power	Source													
Total Input	Supply	Outdoor (V/Phase	/Hz)		VKA • VHA:230 / Single / 50, YKA:400 / Three / 50										
Total Input Rated N/N 0.89 0.87 1.41 4.9 1.14 4.9 1.14 4.9 1.14 4.9 1.14 5.5 1.4.0 5.5 1.4.0 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3 6.2 1.5.3	Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4	
EER			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	
February		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)	
Design Load No. No. Sept. No. Sept. No. Sept. No. No		EER*5			_	-	-	-	-	-	3.24 (3.26)	3.24 (3.26)	3.10(3.12)	3.10(3.12)	
Annual Electricity Consumption** Winylor 221(205) 304(288) 355(340) 428(411) 554(63) 65(65454) 6			EEL Rank		-	-	-	-	-	-	-	-	-	-	
SER** Energy Efficiency Class		Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	_	
Heating Capacity Rated KW 4.1 6.0 7.0 8.0 11.2 11.2 11.4 14.0 14.0 16.0 16.0 16.0			Consumption*2	kWh/a	221(205)	304(288)	355(340)	428(411)	554(543)	565(554)	-	-	-	-	
Heating Capacity Rate					5.7(6.1)	5.7(6.0)					-	-	-	-	
Color Min Max kW 16-52 25-7.3 28-8.2 35-102 45-140 45-140 50-160 50-160 57-180 57-180 57-180											-				
Total Input		Capacity													
COP**															
Design Load Declared Capacity Streftenson design temperature MW 2.4 (-10°C) 3.8 (-10°C) 4.9 (-10°C) 7.8 (-10°C) 7.8 (-10°C) - - -	Season)		Rated	kW	0.95	1.50	1.79	2.03	2.60	2.60	3.51	3.51	4.07	4.07	
Design Load Declared Capacity all reference design temperature AUV 2.4 (4.10°C) 3.8 (-10°C) 4.4 (-10°C) 4.9 (-10°C) 7.8 (-10°C) 7.8 (-10°C)					_	-	-	-	-	-	3.99	3.99	3.93	3.93	
Declared Capacity at reference design temperature kW 2.4(-10°C) 3.8(-10°C) 4.4(-10°C) 4.9(-10°C) 7.8(-10°C) 7.8(-10°C)			EEL Rank								-	-	-	-	
Second S											-	-	-	_	
Back UP Heating Capacity 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)		Declared Capacity	at reference design temperature								-	-	_	-	
Back Up Heating Capacity			at bivalent temperature								-	-	-	-	
Annual Electricity Consumption *2 WW/s 839 1231 1513 1762 2627 2627 -			at operation limit temperature		2.2 (-11°C)		2.8 (-20°C)	3.7 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	-	-	-	-	
SCOP Energy Efficiency Class											-	-	-	-	
Coperating Current (max)			Consumption*2	kWh/a							-	-	-	-	
Departing Current (max)													-	-	
Indicator Indi			Energy Efficiency Class												
Derating Current (max)															
Dimensions - Panel>															
Weight - Same Weight - Sam	Unit								2.65			2.76			
Air Volume			[H×W×D												
External Static Pressure						27(26)		30(29)							
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 34 - 38 34 - 38 34 - 38					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	
Sound Level (PWL)												T aa aa ia			
Outdoor Dimensions H × W × D mm 630 · 809 · 300 943 · 950 · 330 (+30)															
Weight	0.44								62	62			6/	6/	
Air Volume	Unit								110	100			110	101	
Heating Hea	Jiiit		Cooling												
Sound Level (SPL)		All voluine													
Heating Heat		Sound Lovel (SBL)													
Sound Level (PWL) Cooling dB(A) 65 65 67 67 69 69 70 70 70 70 70		Souria Level (SPL)													
Operating Current (max)		Sound Level (PM/I)													
Breaker Size															
Diameter Liquid / Gas mm 6.38 / 12.7 6.38 / 12.7 9.52 / 15.88 9.52															
Max. Length	Evt		Liquid / Gas												
Guaranteed Operating Range [Outdoor] Cooling*3 °C -15 ~ +46 -15 ~	pg						30								
[Outdoor] Heating °C -11 ~ +21 -11 ~ +21 -20 ~ +21 -20 ~ +21 -20 ~ +21 -20 ~ +21 -20 ~ +21 -20 ~ +21 -20 ~ +21 -20 ~ +21 -20 ~ +21 -20 ~ +21	Guarante														
· · · · · · · · · · · · · · · · · · ·															
				_											

^{*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) fell leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

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

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



















































Type							Ir	verter Heat P	ump					
Indoor Ur	ni†		DEAD DEAD DEAD DEAD											
				M35JA(L)	M50JA(L)	M60JA(L)	M71JA(L)		100JA(L)	PEAD-M		PEAD-M		
Outdoor Unit			SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6	SUZ-KA71VA6	PUHZ- P100VKA	PUHZ- P100YKA	PUHZ- P125VKA	PUHZ- P125YKA	PUHZ- P140VKA	PUHZ- P140YKA		
Refrigera	nt				•			R41	0A*1		•			
Power	Source			Outdoor power supply										
Supply	Outdoor (V/Phase)	/Hz)	VA • VKA:230 / Single / 50, YKA:400 / Three / 50											
Cooling	Capacity	Rated	kW	3.6	4.9	5.7	7.1	9.4	9.4	12.1	12.1	13.6	13.6	
Cooming	Capacity	Min - Max	kW	1.4 - 3.9	2.3 - 5.6	2.3 - 6.3	2.8 - 8.1	3.7 - 10.6	3.7 - 10.6	5.6 - 13.0	5.6 - 13.0	5.8 - 14.1	5.8 - 14.1	
	Total Input	Rated	kW	1.050 (1.030)	1.480 (1.460)	1.670 (1.650)	2.080 (2.060)	2.98 (2.96)	2.98 (2.96)	4.15 (4.14)	4.15 (4.14)	5.21 (5.19)	5.21 (5.19)	
	EER*4	nateu	NVV.	-	-	-	-	3.17	3.17	2.91 (2.92)	2.91 (2.92)	2.61 (2.62)	2.61 (2.62)	
		EEL Rank		_			_	3.17	3.17	2.91 (2.92)	2.91 (2.92)	2.01 (2.02)	2.01 (2.02)	
		EEL NAIIK	kW	3.6	4.9	5.7	7.1	9.4	9.4		_	_		
	Design Load Annual Electricity	0	kWh/a	222 (210)	302 (290)	337 (325)	408 (396)	644 (627)	644 (627)	_	_	_		
		Consumption**	kvvn/a											
	SEER*4	F		5.6 (6.0) A+ (A+)	5.6 (5.9)	5.6 (6.1)	6.1 (6.2) A++ (A++)	5.1 (5.2)	5.1 (5.2)	-	-	-	-	
		Energy Efficiency Class	11147		A+ (A+)	A+ (A++)		A (A)	A (A)	-	-	-	-	
Heating	Capacity	Rated	kW	4.1	5.9	7.0	8.0	11.2	11.2	13.5	13.5	15.0	15.0	
(Average		Min - Max	kW	1.7 - 5.0	1.7 - 7.2	2.5 - 8.0	2.6 - 10.2	2.8 - 12.5	2.8 - 12.5	4.8 - 15.0	4.8 - 15.0	4.9 - 15.8	4.9 - 15.8	
Season)	Total Input	Rated	kW	1.110	1.620	1.930	2.040	2.94	2.94	3.73	3.73	4.27	4.27	
	COP*4			-	-	-	-	3.80	3.80	3.61	3.61	3.51	3.51	
		EEL Rank		-	-	_	-	_	-	_	-	-	_	
	Design Load		kW	2.8	4.4	4.5	6.0	8.0	8.0	_	-	-	-	
		at reference design temperature	kW	2.5 (-10°C)	3.9 (-10°C)	4.1 (-10°C)	5.3 (-10°C)	6.0 (-10°C)	6.0 (-10°C)	-	_	-	-	
		at bivalent temperature	kW	2.5 (-7°C)	3.9 (-7°C)	4.1 (-7°C)	5.3 (-7°C)	7.0 (-7°C)	7.0 (-7°C)	_	_	-	_	
		at operation limit temperature	kW	2.5 (-10°C)	3.9 (-10°C)	4.1 (-10°C)	5.3 (-10°C)	4.5 (-15°C)	4.5 (-15°C)	-	-	-	-	
			kW	0.3	0.5	0.5	0.7	2.0	2.0	-	-	-	-	
			kWh/a	980	1466	1569	2153	2793	2793	-	-	-	-	
	SCOP*4			4.0	4.2	4.0	3.9	4.0	4.0	-	-	-	-	
		Energy Efficiency Class		A ⁺	A+	A ⁺	A	A+	A ⁺	-	-	-	-	
	g Current (max)		Α	9.3	13.4	15.6	18.1	22.7	14.2	29.3	14.3	32.8	14.3	
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	250-90	00-732		00-732		250-14			250-16	00-732	
	Weight <panel></panel>	eight <panel></panel>		26 (25)	27 (26)	30 (29)	30 (29)	39 (38)	39 (38)	40 (39)	40 (39)	44 (43)	44 (43)	
			m³/min	10.0 - 12.0 - 14.0	12.0-14.5-17.0	14.5-18.0-21.0	17.5-21.0-25.0	24.0-29.0-34.0	24.0-29.0-34.0	29.5-35.5-42.0	29.5-35.5-42.0	32.0-39.0-46.0	32.0-39.0-46.0	
	External Static Pressure Pa		Pa				35 /	50 / 70 / 100 /	150					
			dB(A)	23 - 27 - 30	26 - 31 - 35	25 - 29 - 33	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	33 - 36 - 40	34 - 38 - 43	34 - 38 - 43	
	Sound Level (PWL))	dB(A)	54	59	55	58	62	62	66	66	67	67	
Outdoor	Dimensions	H × W × D	mm	550-800-285		880-840-330				981-10	50-330		-	
Unit	Weight		kg	35	54	50	53	76	78	84	85	84	85	
	Air Volume	Cooling	m³/min	36.3	44.6	40.9	50.1	79	79	86	86	86	86	
		Heating	m³/min	34.8	44.6	49.2	48.2	79	79	92	92	92	92	
	Sound Level (SPL)	Cooling	dB(A)	49	52	55	55	51	51	54	54	56	56	
		Heating	dB(A)	50	52	55	55	54	54	56	56	57	57	
			dB(A)	62	65	65	69	70	70	72	72	75	75	
	Operating Current (max) A			8.2	12.0	14.0	16.1	20.0	11.5	26.5	11.5	30.0	11.5	
			Â	10	20	20	20	32	16	32	16	40	16	
Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	
	Max. Length	Out-In	m	20	30	30	30	50	50	50	50	50	50	
	Max. Height	Out-In	m	12	30	30	30	30	30	30	30	30	30	
Guaranta	ed Operating Range	Cooling*3	°C	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	
Outdoor		Heating	°C	-10 ~ +46 -10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-15 ~ +40 -15 ~ +21	-15 ~ +40 -15 ~ +21	-15 ~ +40 -15 ~ +21	-15 ~ +21	-15 ~ +46 -15 ~ +21	-15 ~ +40 -15 ~ +21	
[00:0001]		пеашіў		-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +Z1	-10 ~ +21	-10 ~ +21	-10 ~ +Z1	-10 ~ +21	-10 ~ +21	

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

*2 Energy consumption based on standard test results. Actual energy consumption based on standard test results.

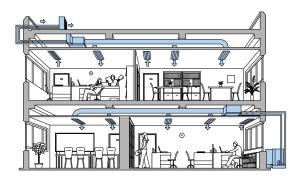


PEA-RP200/250WKA

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		

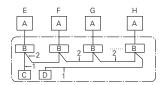
Wide-ranging Line-up from 20-25kW - Extensive Array of Choices to Match Building Size

• For PEA-200, 250 [System Image] PEA-RP200/250WKA PUHZ-200, 250 1 2 PEA-200, 250

PAR-33MAA Group Control

The PAR-33MAA remote controller can control up to 16 systems* as a group, and is ideal for supporting the integrated management of building air conditioners.

• For PEA-200, 250



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



PEZ-RP SERIES

























Inverter Cook of the Land Control Cont

_		Оры	onal Option	· · · · · · · · · · · · · · · · · · ·	
Туре				Inverter Hea	
Indoor U				PEA-RP200WKA	PEA-RP250WKA
Outdoor				PUHZ-ZRP200YKA3	PUHZ-ZRP250YKA3
Refrigera				R410A	
Power	Source			Outdoor power	
Supply	Outdoor (V/Phas	· · ·		400 / Three	
Cooling	Capacity	Rated	kW	19.0	22.0
		Min - Max	kW	9.0 - 22.4	11.2 - 27.0
	Total Input	Rated	kW	6.03	8.05
	EER			3.15	2.73
		EEL Rank		-	-
Heating		Rated	kW	22.4	27.0
(Average		Min - Max	kW	9.5 - 25.0	12.5 - 31.0
Season)	Total Input	Rated	kW	6.58	8.43
	COP			3.40	3.20
		EEL Rank		-	÷
Operatir	ng Current (max)			23.3	26.5
Indoor	Input [Cooling / H	eating] Rated	kW	0.66	0.80
Unit	Operating Currer	nt (max)	A	4.3	5.5
	Dimensions	H x W x D	mm	470 - 1370	- 1120
	Weight		kg	108	
	Air Volume [Lo-H	i]	m³/min	50 - 61 - 72	58 - 71 - 84
	External Static P	ressure	Pa	(60) / (75) / (10	00) / 150
	Sound Level (SPL	.) [Lo-Hi]	dB(A)	38 - 41 - 44	40 - 43 - 46
	Sound Level (PW	L)	dB(A)	65 - 66 - 67	70 - 71 - 72
	Dimensions	H x W x D	mm	1338 - 1050 - 3	330 (+40)
Unit	Weight	1	kg	135	135
	Air Volume	Cooling	m³/min	140	140
		Heating	m³/min	140	140
	Sound Level (SPL	-) Cooling	dB(A)	59	59
		Heating	dB(A)	62	62
	Sound Level (PWI	L) Cooling	dB(A)	77	77
	Operating Currer	nt (max)	A	19.0	21.0
	Breaker Size		A	32	32
Ext.	Diameter	Liquid / Gas	mm	9.52 / 25.4	12.7 / 25.4
Piping	Max. Length	Out-In	m	100	100
	Max. Height	Out-In	m	30	30
Guarante	ed Operating Range		°C	-15 ~ +46	-15 ~ +46
[Outdoo		Heating	°C	-20 ~ +21	-20 ~ +21

^{*1} Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWV) / wood continued to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of COz, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

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

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

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

















































Type		Optioni	optonal -	Invertor	Heat Pump
Indoor Ur	si+			PEA-RP200WKA	PEA-RP250WKA
Outdoor				PUHZ-P200YKA3	PUHZ-P250YKA3
					10A*1
Refrigera					-
Power Supply	Source				power supply Three / 50
	Outdoor (V/Phas				
Cooling	Capacity	Rated	kW	19.0	22.0
		Min - Max	kW	9.0 - 22.4	11.2 - 27.0
	Total Input	Rated	kW	6.29	8.14
	EER			3.02	2.70
		EEL Rank		-	-
Heating	Capacity	Rated	kW	22.4	27.0
(Average Season)		Min - Max	kW	9.5 - 25.0	12.5 - 31.0
Season)	Total Input	Rated	kW	6.78	8.70
	COP			3.30	3.10
		EEL Rank		-	-
Operatin	g Current (max)	•		23.3	26.5
Indoor	Input [Cooling / F	leating] Rated	kW	0.66	0.80
Unit	Operating Currer	nt (max)	А	4.3	5.5
	Dimensions	H x W x D	mm	470 - 1	370 - 1120
	Weight	,	kg		108
	Air Volume [Lo-H	i]	m³/min	50 - 61 - 72	58 - 71 - 84
	External Static P	ressure	Pa	(60) / (75) / (100) / 150
	Sound Level (SPL	.) [Lo-Mid-Hi]	dB(A)	38 - 41 - 44	40 - 43 - 46
	Sound Level (PW	L)	dB(A)	65 - 66 - 67	70 - 71 - 72
Outdoor	Dimensions	H x W x D	mm	1338 - 10	50 - 330 (+40)
Unit	Weight	-	kg	127	135
	Air Volume	Cooling	m³/min	140	140
		Heating	m³/min	140	140
	Sound Level (SPL	-) Cooling	dB(A)	58	59
		Heating	dB(A)	60	62
	Sound Level (PWI	L) Cooling	dB(A)	78	77
	Operating Currer	nt (max)	A	19.0	21.0
	Breaker Size		A	32	32
Ext.	Diameter	Liquid / Gas	mm	9.52 / 25.4	12.7/25.4
Piping	Max. Length	Out-In	m	70	70
	Max. Height	Out-In	m	30	30
Guarante	ed Operating Range		°C	-15 ~ +46	-15 ~ ±46
[Outdoor]		Heating	°C	-20 ~ +21	-20 ~ +21
		ricating	1 3	== -=-	

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

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

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

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





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

Wired & Wireless Model

Wired models are newly added in P Series line-up. The diverse selection enables the base solution for both customer and location.



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.



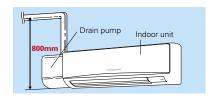
ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

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



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-33MAA and PAC-YT52CRA wired remote controllers can be used as well

* Connection to PAR-33MAA/PAC-YT52CRA requires PAC-SH29TC-E (optional).

Main Functions

- Night Setback
- Energy- saving ModeMulti Language
- Weekly Timer
- Refrigerant Leak Check
- * For details, please refer to pages 25-28





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

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

		Outdoor Unit Capacity																			
Indoor	Indoor Unit Combination		For Single										For 7			Fo	or Trip	For Quadruple			
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Power Inverter (PUZ-ZM)		50x1	60x1	71x1	100x1	-	-	-	-	35x2	50x2	60x2	71x2	-	-	50x3	-	-	-	-
	Distribution Pipe		_	_	-	_	-	-	-	_	N	ISDD-	50TR2-	-E	_	-	MSE)T-111	R2-E	-	



Power Supply Outdoor (V/Phase/Hz)

Cooling Capacity Rate Min Out

Total Input EER

Total Input COP

Operating Current (max)
Indoor Input
Unit Operating Current

Outdoo

Heating (Average Season) Total Inp

Туре Indoor Unit

Outdoor Unit Refrigerant







PKA-M35HA(L)

PUZ-ZM35VKA

3.6 1.6 - 4.5 0.869 4.14

3.94

0.04 / 0.03

13 9 - 10.5 - 12 36 - 40 - 43 60

16 6.35 / 12.7





















9.52 / 15.88





EEL Rank

Min - Max

EEL Rank

Design Load

Declared Capacity at reference design temperature at bivalent temperature at operation limit temperature

Back Up Heating Capacity
Annual Electricity Consumption*

SCOP

Sound Level (SPL)

Energy Efficiency Class

Energy Efficiency Class

Design Load
Annual Electricity Consumption*2
SEER



kWh/a

kWh/a

kW

A mm

kg dB(A) dB(A)

mm kg m³/min m³/min dB(A)

dB(A) dB(A)

A A mm m m °C °C







PKA-M50HA(L)

PUZ-ZM50VKA

0.04 / 0.03

16 6.35 / 12.7





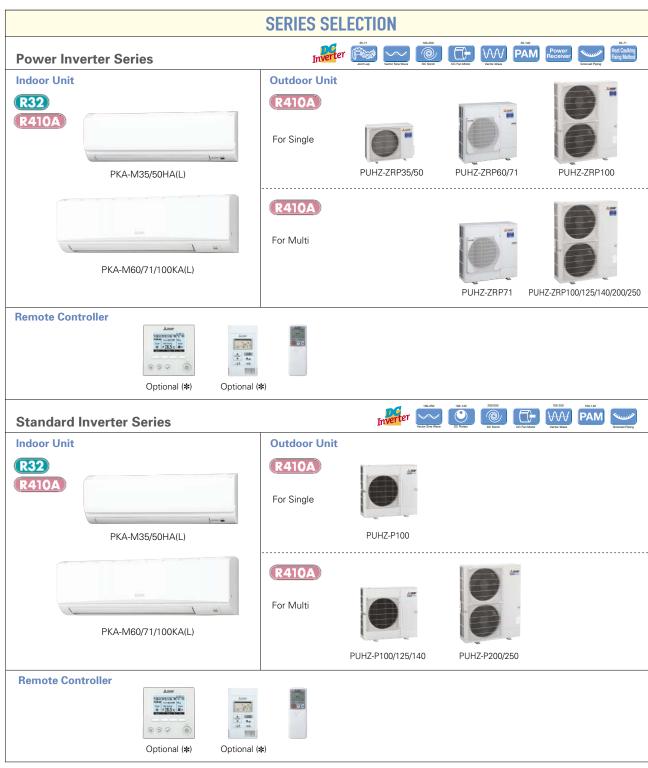
		Optional Option	al Optional Optional
Ser Diagnosis Failure Recal			
Inverter H	eat Pump		
PKA-M60KA(L)	PKA-M71KA(L)	PKA-M1	00KA(L)
PUZ-ZM60VHA	PUZ-ZM71VHA	PUZ-ZM100VKA	PUZ-ZM100YKA
	2*1	1 02 21111001101	1 02 21111001101
	wer supply		
(A · VHA:230 / Single /	50, YKA:400 / Three / 50		
6.1	7.1	9.5	9.5
2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4
1.560	1.863	2.405	2.405
3.91	3.81	3.95	3.95
_	_	-	_
6.1	7.1	9.5	9.5
313	364	508	519
6.8	6.8	6.5	6.4
A++	A++	A++	A++
7.0	8.0	11.2	11.2
2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0
1.732	2.116	3.102	3.102
4.04	3.78	3.61	3.61
-	_		
4.4	4.7	7.8	7.8
4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)
4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)
2.8 (-20°C)	3.5 (-20°C)	5.8 (-20°C)	5.8 (-20°C)
0	0	0	0
1460	1523	2472	2472
4.2	4.3	4.4	4.4
A+ 19.4	A+	A+ 27.1	A+
	19.4 0.06 / 0.05		8.6
0.06 / 0.05 0.43	0.06 / 0.05	0.08 / 0.07 0.57	0.08 / 0.07 0.57
0.43	365 - 11		0.57
21	21	70 - 295	21
18 - 20 - 22	18 - 20 - 22	20 - 23 - 26	20 - 23 - 26
39 - 42 - 45	39 - 42 - 45	41 - 45 - 49	41 - 45 - 49
64	64	65	65
	- 330 (+25)		- 330 (+40)
70	70	116	123
55	55	110	110
		110	110

25 9.52 / 15.88

25 9.52 / 15.88

Liquid / Gas
Out-In
Out-In
Cooling*3

[|] Cultidoor| | Heating | "C | -11 ~ +21 | -11 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 |



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

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

				Outdoor Unit Capacity																	
Indoor	Unit Combination	For Single										For Twin						or Trip	For Quadruple		
			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	-	MSDT-111R-E			MSDF-1111R-E	
Standa	Standard Inverter (PUHZ-P)		-	-	-	100x1	-	-	-	-	-	- 50x2 60x2 71x2		100x2	-	50x3	60x3	71x3	50x4	60x4	
	Distribution Pipe		-	-	-	-	-	-	-	-	-	MSI	DD-50	ΓR-E	MSDD-50WR-E	-	MSI	DT-111	IR-E	MSDF-1	111R-E













































Туре						Inverter F	leat Pump		
ndoor U	nit			PKA-M35HA(L)	PKA-M50HA(L)	PKA-M60KA(L)	PKA-M71KA(L)	PKA-M1	UUK V(I)
utdoor				PUHZ-ZRP35VKA2	PUHZ-ZRP50VKA2	PUHZ-ZRP60VHA2	PUHZ-ZRP71VHA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA
efrigera				FUHZ-ZHF35VKAZ	FUHZ-ZHF3UVKAZ		0A*1	FUHZ-ZHF 100VKA3	FUHZ-ZNF1001KA
ower	Source						ower supply		
	Outdoor (V/Phase	/U=\					50, YKA:400 / Three / 50		
		<u> </u>						9.5	0.5
ooling	Capacity	Rated	kW	3.6 1.6 - 4.5	4.6 2.3 - 5.6	6.1 2.7 - 6.7	7.1 3.3 - 8.1	9.5 4.9 - 11.4	9.5 4.9 - 11.4
	T. () 1	Min - Max							2.40
	Total Input	Rated	kW	0.94	1.41	1.60 3.81	1.80 3.94	2.40 3.96	3.96
	EER	EEL B. I		3.83	3.26	3.81	3.94	3.90	3.96
		EEL Rank	l kW	3.6	4.6	6.1	7.1	9.5	9.5
	Design Load	• *?	kWh/a	3.b 214	4.6 296	324	368	522	533
	Annual Electricity SEER	Consumption*2	kvvn/a	5.9	296 5.4	6.5	6.7	6.3	6.2
	SEER	Energy Efficiency Class		5.9 A+	5.4 A	6.5 A++	6.7 A++	0.3 A++	0.2 A++
	Capacity	Rated	kW	4.1	5.0	7.0	8.0	11.2	11.2
eating werage		Min - Max	kW	4. I 1.6 - 5.2	2.5 - 7.3	7.U 2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0
eason)	Total Input	Rated	kW	1.0 - 5.2	1.50	1.96	2.19	3.04	3.04
casoni	COP	Rated	KVV	3.83	3.33	3.57	3.65	3.68	3.04
	COP	EEL Rank		3.83	3.33	3.57	3.00	3.00	3.00
	Design Load	EEL RANK	kW	2.4	3.3	4.4	4.7	7.8	7.8
		at reference design temperature	kW	2.4 (-10°C)	3.3 (–10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (–10°C)	7.8 (–10°C)
	Deciared Capacity	at bivalent temperature	kW	2.4 (-10°C) 2.4 (-10°C)	3.3 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (–10°C)	7.8 (–10°C)
		at operation limit temperature	kW	2.4 (-10°C)	3.2 (–11°C)	2.8 (–20°C)	3.5 (–20°C)	5.8 (–20°C)	5.8 (–20°C)
	Back Up Heating (kW	0	0	0	0.5 (-20 C)	0	0
	Annual Electricity		kWh/a	847	1160	1473	1532	2608	2608
	SCOP	Consumption	KVVII/a	3.9	4.0	4.2	4.3	4.1	4.1
	SCOF	Energy Efficiency Class		A A	4.0 A+	A+	A+	A+	4.1 A+
norotir	ng Current (max)	Ellergy Elliciency Class	I A	13.4	13.4	19.4	19.4	27.1	8.6
door	Input	Rated	kW	0.04	0.04	0.06	0.06	0.08	0.08
nit	Operating Current		A	0.04	0.4	0.43	0.43	0.57	0.57
	Dimensions <panel></panel>		mm	295 - 89		0.45	365 - 11		0.57
	Weight <panel></panel>	III X W X D	kg	13	13	21	21	21	21
	Air Volume [Lo-Mi	d-Hil	m³/min	9 - 10.5 - 12	9 - 10.5 - 12	18 - 20 - 22	18 - 20 - 22	20 - 23 - 26	20 - 23 - 26
	Sound Level (SPL)		dB(A)	36 - 40 - 43	36 - 40 - 43	39 - 42 - 45	39 - 42 - 45	41 - 45 - 49	41 - 45 - 49
	Sound Level (PWL		dB(A)	60	60	64	64	65	65
utdoor	Dimensions	H×W×D	mm	630 - 80			- 330 (+30)) - 330 (+40)
nit	Weight	1	kg	43	46	70	T 70	116	123
	Air Volume	Cooling	m³/min	45	45	55	55	110	110
		Heating	m³/min	45	45	55	55	110	110
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	49	49
		Heating	dB(A)	46	46	48	48	51	51
	Sound Level (PWL)		dB(A)	65	65	67	67	69	69
	Operating Current		A	13.0	13.0	19.0	19.0	26.5	8.0
	Breaker Size	• •	A	16	16	25	25	32	16
xt.	Diameter	Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
iping	Max. Length	Out-In	m	50	50	50	50	75	75
	Max. Height	Out-In	m	30	30	30	30	30	30
uarante	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
Outdoor		Heating	°Č	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21

[[]Outdoor] | Heating | °C | -11 ~ +21 | -10 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20





















































ailure Recall		

Time			_		D
уре				Inverter H	
door Ur				PKA-M1	
tdoor I				PUHZ-P100VKA	PUHZ-P100YKA
frigera	nt			R410	DA*1
	Source			Outdoor po	
ipply	Outdoor (V/Phase	/Hz)		230 / Single / 50	400 / Three / 50
olina	Capacity	Rated	kW	9.4	9.4
•		Min - Max	kW	3.7 - 10.6	3.7 - 10.6
	Total Input	Rated	kW	3.12	3.12
	EER	•		3.01	3.01
		EEL Rank		-	-
	Design Load		kW	9.4	9.4
	Annual Electricity	Consumption*2	kWh/a	586	586
	SEER			5.6	5.6
		Energy Efficiency Class		Α+	A ⁺
ating	Capacity	Rated	kW	11.2	11.2
erage		Min - Max	kW	2.8 - 12.5	2.8 - 12.5
ison)	Total Input	Rated	kW	3.48	3.48
	COP			3.21	3.21
		EEL Rank		-	-
	Design Load		kW	8.0	8.0
	Declared Capacity	at reference design temperature	kW	6.0 (-10°C)	6.0 (-10°C)
		at bivalent temperature	kW	7.0 (–7°C)	7.0 (–7°C)
		at operation limit temperature	kW	4.5 (–15°C)	4.5 (–15°C)
	Back Up Heating C	Capacity	kW	2.0	2.0
	Annual Electricity	Consumption*2	kWh/a	2795	2795
	SCOP			4.0	4.0
		Energy Efficiency Class		A+	A+
	g Current (max)	In	A	20.6	12.1
oor it		Rated	kW	0.08	0.08
ıτ	Operating Current		Α	0.57	0.57
	Dimensions <panel></panel>	IH × M × D	mm		70 - 295 21
	Weight <panel></panel>	J 1 131	kg 3/:-	21	
	Air Volume [Lo-Mid		m³/min dB(A)	20 - 23 - 26 41 - 45 - 49	20 - 23 - 26 41 - 45 - 49
	Sound Level (SPL)		dB(A)	41 - 45 - 49 65	
tdos:	Sound Level (PWL Dimensions) H×W×D	mm dB(A)	65 981 - 10	65 E0 330
taoor it	Weight	IH × W × D		76	78
	Air Volume	Cooling	kg m³/min	76	78 79
	Air volume	Heating	m³/min	79 79	79 79
	Sound Level (SPL)		dB(A)	51	51
	Sound Level (SPL)	Heating	dB(A)	54	54
	Sound Level (PWL)		dB(A)	70	70
	Operating Current		A A	20.0	11.5
	Breaker Size	(IIIdX)	A	20.0 32	11.5
	Diameter Size	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88
t. ping	Max. Length	Out-In	m	9.52 / 15.88	9.52 / 15.88
	Max. Height	Out-In	m	30	30
aranta	ed Operating Range		°C	−15 ~ +46	–15 ~ +46
utdoori		Heating	°C	-15 ~ +40 -15 ~ +21	-15 ~ +46 -15 ~ +21



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

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

Stylish Indoor Unit Design

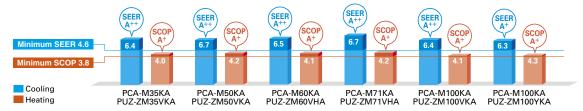
A stylish square-like design is adopted for the indoor units of all models. As a result, the units blend in better with the ceiling.



PCA-KA

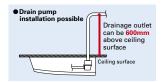
ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

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



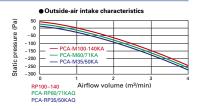
Optional Drain Pump for Full-capacity Models

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



Outside-air Intake

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



Equipped with Automatic Air-speed Adjustment

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



Equipped with High-/Low-ceiling Modes

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

Capacity	High 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



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

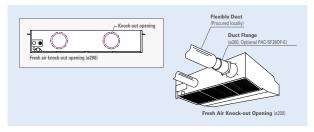
Easy Maintenance – Even for Cleaning the Fan

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)

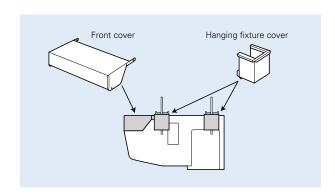
There is a knock-out opening on the rear panel of the unit that can be used to bring fresh air into the unit. This helps to improve ventilation and make the kitchen comfortable.



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

			Outdoor Unit Capacity																			
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	Power Inverter (PUZ-ZM)		50x1	60x1	71x1	100x1	125x1	140x1	-	_	35x2	50x2	60x2	71x2	-	_	50x3	-	_	-	_	
	Distribution Pipe		-	-	-	-	-	-	-	-	MSDD-50TR2-E –					MSE	MSDT-111R2-E					























































1	Failure	1

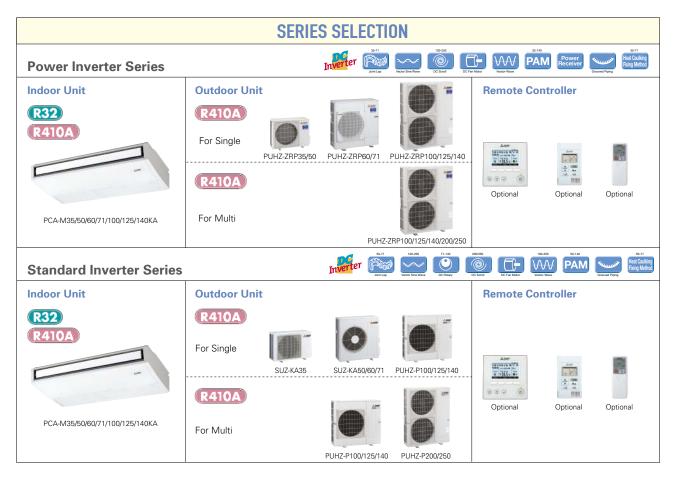
Туре								Inverter H	eat Pump				
Indoor Ur	nit			PCA-	PCA-	PCA-	PCA-						
				M35KA	M50KA	M60KA	M71KA	PCA-N	1100KA	PCA-M	1125KA	PCA-N	1140KA
Outdoor	Unit			PUZ-	PUZ-	PUZ-	PUZ-	PUZ-	PU7-	PU7-	PUZ-	PUZ-	PUZ-
Outdoor	OTIIL			ZM35VKA	ZM50VKA	ZM60VHA	ZM71VHA	ZM100VKA	ZM100YKA	ZM125VKA	ZM125YKA	ZM140VKA	ZM140YKA
Refrigera	n+			ZIVISSVINA	ZIVIJUVKA	ZIVIOUVITA	ZIVI/ I VI I/A	R3		ZIVITZJVKA	ZIVITZJIKA	ZIVIT40VKA	ZIVIT401KA
Power									wer supply				
Supply	Source Outdoor (V/Phase	/U=\					\/K \ . \/H		50, YKA:400 / 1	hron / 50			
		<u>'</u>		0.0		6.1	7.1	9.5	9.5		12.5	10.1	10.4
Cooling	Capacity	Rated	kW	3.6	5.0	2.7 - 6.7				12.5		13.4	13.4
		Min - Max	kW	1.6 - 4.5	2.3 - 5.6		3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0 3.846	5.5 - 14.0 3.846	6.2 - 15.0	6.2 - 15.0
	Total Input	Rated	kW	0.829 4.34	1.250	1.521 4.01	1.829	2.317	2.317 4.10			3.941	3.941
	EER				4.00		3.88	4.10		3.25	3.25	3.40	3.40
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	-
	Annual Electricity	Consumption* ²	kWh/a	197	260	328	371	513	523	-	-	-	-
	SEER	F. F. C.		6.4	6.7	6.5	6.7	6.4	6.3	-	-	_	-
		Energy Efficiency Class	11147	A++	A++	A++	A++ 8.0	A++ 11.2	A++ 11.2	14.0	-	-	-
Heating	Capacity	Rated	kW kW	4.1 1.6-5.2	5.5 2.5 - 6.6	7.0 2.8 - 8.2	8.0 3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	14.0	16.0	16.0
(Average Season)	T	Min - Max								3.954	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Season)	Total Input	Rated	kW	1.019	1.361	1.745	2.156 3.71	3.018	3.018		3.954	4.432	4.432
	COP			4.02	4.04	4.01		3.71	3.71	3.54	3.54	3.61	3.61
		EEL Rank		-	-	-	4.7	7.8	7.8	-	-	-	-
	Design Load		kW	2.4	3.8	4.4				-	-	-	-
	Declared Capacity	at reference design temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (–10°C)	7.8 (–10°C)	_	-	-	-
		at bivalent temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C) 5.8 (-20°C)		-	-	-
	D 1 11 11 11 11 1	at operation limit temperature	kW	2.2 (-11°C)	3.7 (–11°C) 0	2.8 (-20°C)	3.5 (-20°C)	5.8 (-20°C)	5.8 (-20°C) 0	-	-	-	-
	Back Up Heating C		kW	0 839		0 1499	0 1563	0 2539	2539		-	-	-
	Annual Electricity SCOP	Consumption**	kWh/a	4.0	1265 4.2	4.1	4.2	4.3	4.3	-	-	_	-
		Energy Efficiency Class		4.0 A+	4.2 A+	4.1 A+	4.2 A+	4.3 A+	4.3 A+	_	-	-	-
Onevetin	g Current (max)	Energy Efficiency Class	ΙA	13.3	13.4	19.4	19.4	27.2	8.7	27.3	10.3	28.9	13.9
Indoor	Input	Rated	kW	0.04	0.05	0.06	0.06	0.09	0.09	0.11	0.11	0.14	0.14
Unit	Operating Current		A	0.04	0.03	0.39	0.42	0.65	0.65	0.76	0.76	0.14	0.14
Oiiit	Dimensions <panel></panel>		mm	230 - 96			80 - 680	0.03	0.00		0.76 00 - 680	0.50	0.50
	Weight <panel></panel>	III X W X D	ka	250 - 90	26	32	32	37	37	38	38	40	40
	Air Volume [Lo-Mi2	Mii Lii	m³/min		10-11-13-15						23-25-27-29		
	Sound Level (SPL)		dB(A)		32-34-37-40		35-37-39-41	37-39-41-43	37-39-41-43	39-41-43-45	39-41-43-45	11-12-15-19	11-12-15-19
	Sound Level (PWL		dB(A)	60	60	60	62	63	63	65	65	68	68
Outdoor	Dimensions	H×W×D	mm	630 - 80		943 - 950		- 00) - 330 (+40)	- 00	
Unit	Weight		kg	46	I 46	70	70	116	123	116	125	118	131
-	Air Volume	Cooling	m³/min	45	45	55	55	110	110	120	120	120	120
		Heating	m³/min	45	45	55	55	110	110	120	120	120	120
	Sound Level (SPL)		dB(A)	44	44	47	47	49	49	50	50	50	50
	Journa Lover (of L)	Heating	dB(A)	46	46	49	49	51	51	52	52	52	52
	Sound Level (PWL)		dB(A)	65	65	67	67	69	69	70	70	70	70
	Operating Current		A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size		A	16	16	25	25	32	16	32	16	40	16
Ext.	Diameter	Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
Piping	Max. Length	Out-In	m	50	50	55	55	100	100	100	100	100	100
	Max. Height	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	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21
		9									1 20 .21		

^{*1} Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

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

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

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



PCA-M 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
			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-507	ΓR-E	MSDD-	50WR-E	MSI	DT-111	R-E	MSDF-1	1111R-E
Standa	Standard Inverter (PUHZ-P&SUZ)		50x1	60x1	71x1	100x1	125x1	140x1	ī	-	-	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	MSI	DD-50	TR-E	MSDD-	50WR-E	MSI	DT-111	R-E	MSDF-1	1111R-E



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

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

























































	www.m.rover&certification		Optional	Optional	Optional	Optional			Optional	Optional			
Туре								Inverter H	eat Pump				
Indoor U	nit			PCA- M35KA	PCA- M50KA	PCA- M60KA	PCA- M71KA	PCA-M	100KA	PCA-N	1125KA	PCA-N	1140KA
Dutdoor	Unit			PUHZ- ZRP35VKA2	PUHZ- ZRP50VKA2	PUHZ- ZRP60VHA2	PUHZ- ZRP71VHA2	PUHZ- ZRP100VKA3	PUHZ- ZRP100YKA3	PUHZ- ZRP125VKA3	PUHZ- ZRP125YKA3	PUHZ- ZRP140VKA3	PUHZ- ZRP140YKA
Refrigera	int							R41	0A*1				
ower	Source							Outdoor po	wer supply				
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
coming	Jupusity	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	riatoa	1.000	4.19	3.73	3.67	3.90	3.93	3.93	3.14	3.14	3.39	3.39
		EEL Rank		_	_	_	_	_	-	-	_	-	-
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	_	_	_	_
	Annual Electricity	Consumption*2	kWh/a	202	283	340	367	542	553	_	-	_	_
	SEER	- C. Comption	1	6.2	6.1	6.2	6.7	6.1	6.0	_	_	_	_
		Energy Efficiency Class		A++	A++	Δ++	A++	A++	A+	_		_	_
eating		Rated	kW	4.1	5.5	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
verage	oupdoity	Min - Max	kW	1.6 - 5.2	2.5 - 6.6	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
eason)	Total Input	Rated	kW	1.02	1.45	1.93	2.20	3.04	3.04	3.80	3.80	4.57	4.57
Juou.,	COP	Inateu	I KVV	4.02	3.79	3.63	3.64	3.68	3.68	3.68	3.68	3.50	3.50
		EEL Rank		4.02	3.79	- 3.03	- 3.04	- 3.00	- 3.00	- 3.00	3.00	- 3.50	3.30
	Design Load	EEL RANK	kW	2.4	3.8	4.4	4.7	7.8	7.8	_	_	_	_
			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)			_	
	Deciared Capacity	at reference design temperature 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)				
			kW			2.8 (–20°C)	3.5 (–20°C)	5.8 (–20°C)	5.8 (-20°C)				
	D 1 11 11 11 11 1	at operation limit temperature		2.2 (-11°C)	3.7 (–11°C)							-	
	Back Up Heating C	арасіту	kW	0	0	0 1458	0 1519	0 2837	0 2837	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	815	1257					-	-	-	-
	SCOP	F F(f: 0)		4.1	4.2	4.3	4.3	3.9	3.9	-	-	-	-
		Energy Efficiency Class		A+	A+	A+	A+	A 27.2	A 8.7	27.3	-	-	- 10.0
	ng Current (max)	In I	A	13.3	13.4	19.4	19.4		0.09	0.11	10.3	28.9	13.9
door nit	Input	Rated	kW A	0.04	0.05 0.37	0.06	0.06 0.42	0.09 0.65	0.65	0.76	0.11	0.14 0.90	0.14 0.90
IIIL	Operating Current			0.29				0.05	0.05			0.90	0.90
	Dimensions <panel></panel>	IH × W × D	mm		60 - 680		280 - 680 32	37	37	38	00 - 680	40	40
	Weight <panel></panel>	N A 414 1121	kg m³/min	25	26	32		22-24-26-28			38		
	Air Volume [Lo-Mi2 Sound Level (SPL)		dB(A)	04 00 00 00	10-11-13-15	15-16-17-19	05 07 00 44	37-39-41-43	22-24-20-28	23-25-27-29	23-25-27-29	24-20-29-32	24-20-29-
	Sound Level (SPL)		dB(A)	60	60	60	62	63	63	65	65	68	68
4 - 1								03	03			08	68
utaoor nit	Dimensions	H × W × D	mm	630 - 80		70	- 330 (+30) 70	116	123		330 (+40)	118	131
iiit	Weight Air Volume	Cooling	kg m³/min	43 45	46 45	55	70 55	110	110	116 120	125 120	120	120
	Air volume	Cooling		45 45	45 45	55	55	110	110	120	120	120	120
	Sound Level (SPL)	Heating	m³/min dB(A)	45 44	45 44	47	47	49	49	50	50	50	50
	Sound Level (SPL)	Cooling		44	44	47	47	51	51	52	52	52	52
		Heating	dB(A)	46 65	46 65	67	48 67	69	69		70	70	70
	Sound Level (PWL)									70			
	Operating Current	(max)	A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size	11: :1/6:	Α	16	16	25	25	32	16	32	16	40	16
xt.	Diameter	Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88		9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.8
iping	Max. Length	Out-In	m	50	50	50	50	75	75	75	75	75	75
	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
		Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +4e
Guarante Outdoor	ed Operating Range	Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +2

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

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

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

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































































Type								Investor L	leat Pump				
	·.			2011405111	DO4 1450//4	2011100111	DO4 14741/4			2011		2044	44.401/4
Indoor U				PCA-M35KA	PCA-M50KA	PCA-M60KA	PCA-M71KA	PCA-M			1125KA		1140KA
Outdoor				SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6	SUZ-KA71VA6			PUHZ-P125VKA	PUHZ-P125YKA	PUHZ-P140VKA	PUHZ-P140YKA
Refrigera	int						•	R41	0A*1	•	•	•	
Power	Source							Outdoor po	ower supply				
Supply	Outdoor (V/Phase	/Hz)					VA • VK	A:230 / Single / 5	50, YKA:400 / T	hree / 50			
Cooling	Capacity	Rated	kW	3.6	5.0	5.7	7.1	9.4	9.4	12.1	12.1	13.6	13.6
Cooming	oupdoity	Min - Max	kW	1.4 - 3.9	2.3 - 5.6	2.3 - 6.3	2.8 - 8.1	3.7 - 10.6	3.7 - 10.6	5.6 - 13.0	5.6 - 13.0	5.8 - 14.1	5.8 - 14.1
	Total Input	Rated	kW	1.050	1.550	1.720	2.060	3.05	3.05	4.24	4.24	5.62	5.62
	EER	Inated	LVV	3.43	3.23	3.31	3.45	3.08	3.08	2.85	2.85	2.41	2.41
		EEL Rank		-	-	- 3.31	- 3.43	-	3.00	2.03	-	- 2.41	2.41
	Design Load	EEL NAIIK	kW	3.6	5.0	5.7	7.1	9.4	9.4		_		
	Annual Electricity	C	kWh/a	209	296	325	409	586	586	_	_	_	_
	SEER SEER	Consumption	KVVII/a	6.0	5.8	6.1	6.0	5.6	5.6	_	_		_
		F		A+	5.8 A+	δ.1 Δ++	A+	5.6 A+	5.6 A+				
		Energy Efficiency Class	1.007	4.1	5.5	6.9	7.9	11.2		13.5	- 10 F	15.0	15.0
(Average	Capacity	Rated	kW kW	1.7 - 5.0	1.7 - 6.6	2.5 - 8.0	2.6 - 10.2	2.8 - 12.5	11.2 2.8 - 12.5	4.8 - 15.0	13.5 4.8 - 15.0	4.9 - 15.8	4.9 - 15.8
Season)		Min - Max		1.7 - 5.0	1.7 - 6.6	1.910							
Season)	Total Input	Rated	kW				2.180	3.37	3.37	4.06	4.06	4.47	4.47
	COP			3.90	3.62	3.61	3.62	3.32	3.32	3.32	3.32	3.35	3.35
		EEL Rank		-	_	-	-	-	-	-	-	-	-
	Design Load		kW	2.6	4.0	4.8	5.8	8.0	8.0	-	-	-	-
	Declared Capacity	at reference design temperature	kW	2.3 (-10°C)	3.6 (-10°C)	4.0 (-10°C)	5.2 (-10°C)	6.0 (-10°C)	6.0 (-10°C)	-	-	-	-
		at bivalent temperature	kW	2.3 (-7°C)	3.6 (-7°C)	4.3 (-7°C)	5.2 (-7°C)	7.0 (-7°C)	7.0 (-7°C)	-	-	-	-
		at operation limit temperature	kW	2.3 (-10°C)	3.6 (-10°C)	4.0 (-10°C)	5.2 (-10°C)	4.5 (-15°C)	4.5 (-15°C)	-	-	-	-
	Back Up Heating (kW	0.3	0.4	0.8	0.6	2.0	2.0	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	887	1398	1678	2028	2726	2726	-	-	-	-
	SCOP			4.1	4.0	4.0	4.3	4.1	4.1	-	-	-	-
		Energy Efficiency Class		A ⁺	Α+	A ⁺	A ⁺	A ⁺	A ⁺	-	_	-	-
	ng Current (max)		Α	8.5	12.4	14.4	16.5	20.7	12.2	27.3	12.3	30.9	12.4
Indoor	Input	Rated	kW	0.04	0.05	0.06	0.06	0.09	0.09	0.11	0.11	0.14	0.14
Unit	Operating Current		A	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76	0.90	0.90
	Dimensions <panel></panel>	$H \times W \times D$	mm	230-96		230-12					00-680		
	Weight <panel></panel>		kg	25	26	32	32	37	37	38	38	40	40
	Air Volume [Lo-Mi2	2-Mi1-Hi]	m³/min	10-11-12-14	10-11-13-15	15-16-17-19	16-17-18-20	22-24-26-28	22-24-26-28	23-25-27-29	23-25-27-29	24-26-29-32	24-26-29-32
	Sound Level (SPL)	[Lo-Mi2-Mi1-Hi]	dB(A)	31-33-36-39	32-34-37-40	33-35-37-40	35-37-39-41	37-39-41-43	37-39-41-43	39-41-43-45	39-41-43-45	41-43-45-48	41-43-45-48
	Sound Level (PWL		dB(A)	60	60	60	62	63	63	65	65	68	68
Outdoor	Dimensions	$H \times W \times D$	mm	550 - 800 - 285		880 - 840 - 330)			981 - 10	50 - 330		
Unit	Weight		kg	35	54	50	53	76	78	84	85	84	85
	Air Volume	Cooling	m³/min	36.3	44.6	40.9	50.1	79	79	86	86	86	86
		Heating	m³/min	34.8	44.6	49.2	48.2	79	79	92	92	92	92
	Sound Level (SPL)		dB(A)	49	52	55	55	51	51	54	54	56	56
		Heating	dB(A)	50	52	55	55	54	54	56	56	57	57
	Sound Level (PWL)		dB(A)	62	65	65	69	70	70	72	72	75	75
	Operating Current		A	8.2	12.0	14.0	16.1	20.0	11.5	26.5	11.5	30.0	11.5
	Breaker Size		A	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
	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
	ad Operating Pange		°C	10 .46	_15 146	-15 146	15 . 16	15 . 16	15 . 46	-15 146	15 .46	15 . 16	-15







































		Optional		
Гуре				Inverter Heat Pump
door U				PCA-RP71HAQ
utdoor				PUHZ-ZRP71VHA2
efrigera				R410A*1
wer	Source			Outdoor power supply
upply	Outdoor (V/Phase	/Hz)		230 / Single / 50
ooling	Capacity	Rated	kW	7.1
_		Min - Max	kW	3.3 - 8.1
	Total Input	Rated	kW	2.17
	EER			<u>-</u>
		EEL Rank		<u>-</u>
	Design Load		kW	7.1
	Annual Electricity	Consumption*2	kWh/a	447
	SEER			5.6
		Energy Efficiency Class		A+
eating		Rated	kW	7.6
verage		Min - Max	kW	3.5 - 10.2
ason)	Total Input	Rated	kW	2.35
	COP	EEL Rank		-
		EEL Rank	kW	
	Design Load	La facilitation		4.7 4.7 (–10°C)
	Declared Capacity	at reference design temperature at bivalent temperature	kW kW	4.7 (-10°C) 4.7 (-10°C)
		at operation limit temperature	kW	4.7 (=10°C) 3.5 (=20°C)
	Back Up Heating (at operation innit temperature	kW	3.5(-20 c)
	Annual Electricity		kWh/a	
	SCOP	Consumption	KVVII/a	3.8
		Energy Efficiency Class		A A
perati	ng Current (max)	znergy zmerency erace	I 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
	Dimensions	$H \times W \times D$	mm	943 - 950 - 330 (+30)
nit	Weight		kg	70
	Air Volume	Cooling	m³/min	55.0
		Heating	m³/min	55.0
	Sound Level (SPL)	Cooling	dB(A)	47
		Heating	dB(A)	48
	Sound Level (PWL)		dB(A)	67
	Operating Current	(max)	A	19.0
	Breaker Size	11: :1/0	А	255
rt.	Diameter	Liquid / Gas	mm	9.52/15.88
ping	Max. Length	Out-In	m	50 30
	Max. Height	Out-In	m	
	ed Operating Range	Cooling*3	°C	−15 ~ +46 −20 ~ +21
Dutdooi	1	Heating	°C	

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

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

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

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



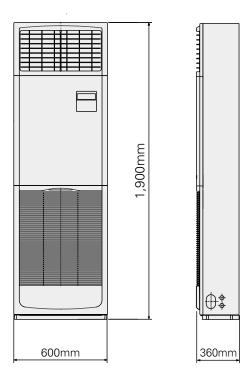
Installation of this floor-standing series is easy and quick. An excellent choice when there is a sudden need for an air conditioner to be installed.



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

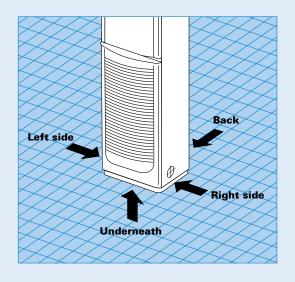
The floor-standing indoor unit is mounted on the floor, enabling quick installation. Its compact body requires only minimal space.

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

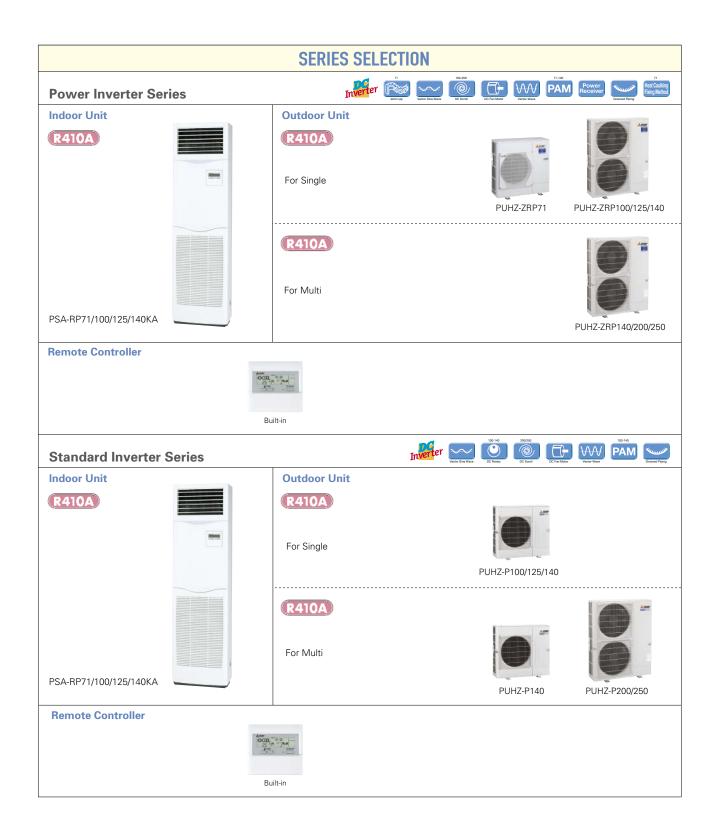
Easy Operation with Built-in PAR-21MAA Remote Controller

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	Indoor Unit Combination				Fo	or Sing	jle						For	Twin			Fo	or Trip	le	For Qua	adruple
			50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Power Inverter (PUHZ-ZRP)		-	-	71x1	100x1	125x1	140×1	-	-	-	-	-	71x2	100x2	125x2	-	-	71x3		-
	Distribution Pipe	-	-	_	-	-	-	-	-	-	-	_	-	MSDD-50TR-E	MSDD-	50WR-E	-	-	MSDT-111R-E		-
Standa	Standard Inverter (PUHZ-P)		-	-	-	100x1	125x1	140x1	-	-	-	-	-	71x2	100x2	125x2	-	-	71x3		-
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	-	-	MSDD-50TR-E	MSDD-	50WR-E	-	-	MSDT-111R-E	-	-









































_		
	Failure	
s#	Dece	

_										
Type							Inverter Heat Pump			
Indoor U	nit			PSA-RP71KA		2100KA	PSA-RF			2140KA
Outdoor				PUHZ-ZRP71VHA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA3	PUHZ-ZRP125VKA3	PUHZ-ZRP125YKA3	PUHZ-ZRP140VKA3	PUHZ-ZRP140YKA
Refrigera							R410A*1			•
Power	Source						Outdoor power supply			
Supply	Outdoor (V/Phase	/Hz)				VKA • VHA:23	0 / Single / 50, YKA:40	0 / Three / 50		
Coolina	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	ı	ı	-	-
	Annual Electricity	Consumption*2	kWh/a	396	595	606	ı	ı	-	-
	SEER			6.3	5.6	5.5	-	-	-	-
		Energy Efficiency Class		A++	Α+	A		-		
leating	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		-	-	7.8		-	-	-
	Design Load	I. c	kW	4.7 4.7 (–10°C)	7.8 7.8 (–10°C)	7.8 (-10°C)	-	-	-	-
	Declared Capacity	at reference design temperature	kW kW				-	_	_	_
		at bivalent temperature	kW	4.7 (-10°C) 3.5 (-20°C)	7.8 (-10°C) 5.8 (-20°C)	7.8 (-10°C) 5.8 (-20°C)			_	_
	Back Up Heating (at operation limit temperature	kW	0	0.8 (-20°C)	0.8 (-20°C)			_	_
	Annual Electricity		kWh/a	1666	2761	2761				
	SCOP	Consumption	KVVII/a	4.0	4.0	4.0			_	
	3001	Energy Efficiency Class		4.0 Δ+	Δ+	A+				_
neratin	ng Current (max)	ziioigy ziiioioiioy olaso	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		-		1900 - 600 - 360			
	Weight <panel></panel>		kg	46	46	46	46	46	48	48
	Air Volume [Lo-Mi	d-Hi]	m³/min	20 - 22 - 24	25 - 28 - 30	25 - 28 - 30	25 - 28 - 31	25 - 28 - 31	25 - 28 - 31	25 - 28 - 31
	Sound Level (SPL	[Lo-Mid-Hi]	dB(A)	40 - 42 - 44	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51
	Sound Level (PWL		dB(A)	60	65	65	66	66	66	66
	Dimensions	$H \times W \times D$	mm	943-950-330 (+30))-330(+40)		
Jnit	Weight		kg	70	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	(max)	A	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size	II:- :1/0	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 30	75	75 30	75 30	75 30	75 30	75 30
	Max. Height	Out-In	°C		30					
Guarante [Outdoor	ed Operating Range	Cooling*3		-15 ~ +46	-15 ~ +46	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21
i Outuo01	1	Heating	°C	-20 ~ +21	-20 ~ +21	2U ~ +2 I	-2U ~ +21	-2U ~ +2 I	-20 ~ +21	-2U ~ +21

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

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

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

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































































Туре						Inverter H	leat Pump		
ndoor U	nit			PSA-RF	P100KA	PSA-RI	P125KA	PSA-RF	140KA
Outdoor				PUHZ-P100VKA	PUHZ-P100YKA	PUHZ-P125VKA	PUHZ-P125YKA	PUHZ-P140VKA	PUHZ-P140YKA
Refrigera				1 0112-1 100 VICA	10112-1 1001KA	R41		1 0112-1 140VIOA	1 0112-1 1401KA
ower	Source						ower supply		
	Outdoor (V/Phase	/H ₂)					, YKA:400 / Three / 50		
<u> </u>		<u> </u>	l kW l	9.4	9.4	12.1	12.1	13.6	13.6
ooling	Capacity	Rated Min - Max	kW	9.4 3.7 - 10.6	9.4 3.7 - 10.6	5.6 - 13.0	5.6 - 13.0	5.8 - 13.7	5.8 - 13.7
	Total Input	Rated	kW	3.7 - 10.6	3.7 - 10.6	5.02	5.0- 13.0	6.38	6.38
	EER .	Inarea	KVV	3.12	3.12	2.41	2.41	2.13	2.13
	EEK	EEL Rank		3.01	3.01	Z.41 -	2.41	2.13	2.13
	Design Load	EEL RANK	l kW	9.4	9.4	_	_		
	Annual Electricity	C+2	kWh/a	9.4 644	9.4 644	_	_		
	SEER	Consumption	KVVII/a	5.1	5.1		_	_	
	SEEN	Energy Efficiency Class		A A	A A		_	_	
eating	Capacity	Rated	kW	11.2	11.2	13.5	13.5	15.0	15.0
leating Average	oupacity	Min - Max	kW	2.8 - 12.5	2.8 - 12.5	4.8 - 15.0	4.8 - 15.0	4.9 - 15.8	4.9 - 15.8
eason)	Total Input	Rated	kW	3.28	3.28	4.80	4.80	4.82	4.82
	COP	Triatea	1 1/4	3.41	3.41	2.81	2.81	3.11	3.11
	001	EEL Rank		-		_	-	-	-
	Design Load	LEE HUIK	kW	8.0	8.0	_	_	_	_
		at reference design temperature	kW	6.0 (-10°C)	6.0 (-10°C)	_	_	_	
	Dooiaroa oapaoity	at bivalent temperature	kW	7.0 (-7°C)	7.0 (-7°C)	_	_	_	
		at operation limit temperature	kW	4.5 (–15°C)	4.5 (–15°C)	_	_	_	
	Back Up Heating (kW	2.0	2.0	_	_	_	_
	Annual Electricity		kWh/a	2794	2794	_	_	_	_
	SCOP		1	4.0	4.0	_	_	_	-
		Energy Efficiency Class		A+	A+	_	_	-	-
peratir	ng Current (max)		Α	20.7	12.2	27.2	12.2	30.7	12.2
door	Input	Rated	kW	0.11	0.11	0.11	0.11	0.11	0.11
nit	Operating Current	t (max)	А	0.71	0.71	0.73	0.73	0.73	0.73
	Dimensions <panel></panel>	H×W×D	mm				600 - 360		
	Weight <panel></panel>		kg	46	46	46	46	48	48
	Air Volume [Lo-Mi		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
	Dimensions	$H \times W \times D$	mm	981 - 10			50 - 330	981 - 10	
nit	Weight		kg	76	78	84	85	84	85
	Air Volume	Cooling	m³/min	79	79	86	86	86	86
		Heating	m³/min	79	79	92	92	92	92
	Sound Level (SPL)		dB(A)	51	51	54	54	56	56
		Heating	dB(A)	54	54	56	56	57	57
	Sound Level (PWL)		dB(A)	70 20.0	70	72 26.5	72	75	75
	Operating Current	(max)	A		11.5	26.5 32	11.5 16	30.0	11.5
	Breaker Size	Liquid / Gas	А	32 9.52 / 15.88	16 9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	40 9.52 / 15.88	16 9.52 / 15.88
xt. iping	Diameter		mm					9.52 / 15.88	9.52 / 15.88
ihiiid	Max. Length	Out-In	m	50 30	50 30	50 30	50 30	30	30
	Max. Height ed Operating Range	Out-In Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
Suarante Outdoor			-c	-15 ~ +46 -15 ~ +21					
JuidOUI	1	Heating	L	-15 ~ +21	-15 ~ +Z1	-10 ~ +21	-10 ~ +21	-15 ~ +Z1	-10 ~ +Z1

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

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

MULTI SPLISSERIES

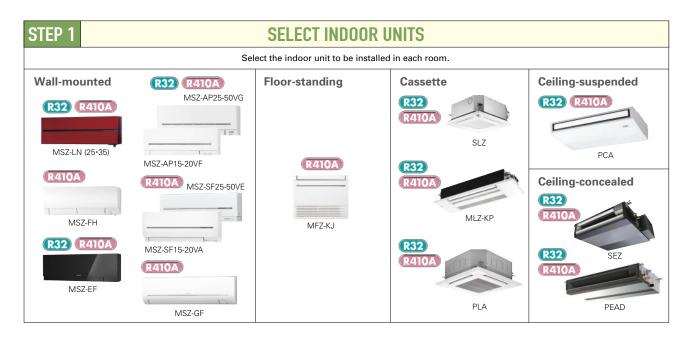




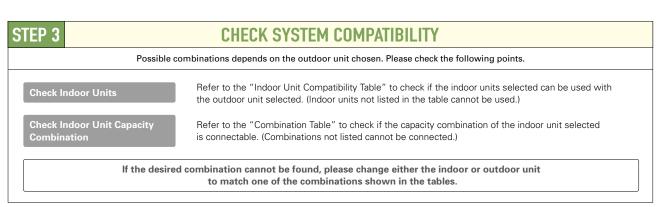


SELECTION

Choose from five 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.







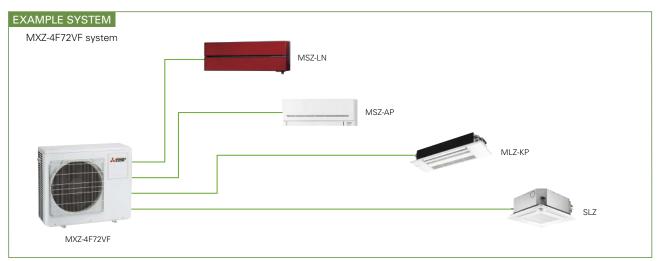
MXZ SERIES

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









Handle Up to 4 Rooms with a Single Outdoor Unit

The MXZ Series for R32 offers a six-system line-up to choose from, ranging between 3.3 and 7.2kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

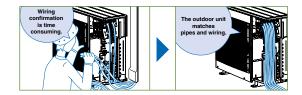
Support Functions ———

Wiring/Piping Correction Function* (3F54/3F68/4F72)

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

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

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



Operation Lock

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







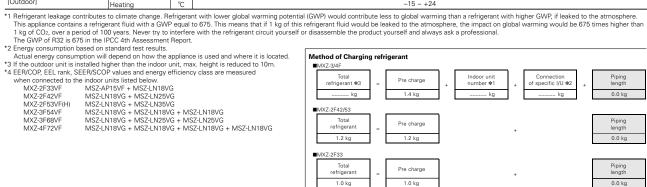






Type (Inv	erter Multi - Split He	at Pump)			Up to 2 In	door Units		Up to 3 In	door Units	Up to 4 Indoor Units
Indoor Ur	nit						Please refer to *4			
Outdoor I	Jnit			MXZ-2F33VF	MXZ-2F42VF	MXZ-2F53VF	MXZ-2F53VFH	MXZ-3F54VF	MXZ-3F68VF	MXZ-4F72VF
Refrigera	nt					•	R32*1	•	•	•
Power	Source						Outdoor power suppl	ly		
Supply	Outdoor (V/Phase/F	(z)					- 230 - 240V / Single /			
Cooling	Capacity	Rated	kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2
•	Input*4	Rated	kW	0.85	0.98	1.40	1.40	1.32	1.84	1.85
	EER*4			3.88	4.29	3.79	3.79	4.09	3.70	3.89
		EEL Rank*4		_	_	-	-	-	-	_
	Design Load		kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2
	Annual Electricity	Consumption*2	kWh/a	188	169	215	215	222	299	310
	SEER*4			6.13	8.69	8.63	8.63	8.52	7.96	8.13
	022	Energy Efficiency (Class*4	A++	A+++	A+++	A+++	A+++	A++	A++
Heating	Capacity	Rated	kW	4.0	4.5	6.4	6.4	7.0	8.6	8.6
Average		Rated	kW	0.91	0.88	1.56	1.56	1.40	1.91	1.87
Season)	COP*4	riated	KVV	4.40	5.11	4.10	4.10	5.00	4.50	4.60
	00.	EEL Rank*4		-	-	-	4.10	-		4.00
	Design Load	LLL HUIK	kW	2.7	3.2	3.2	3.2	5.0	6.8	7.0
		ice design temperature	kW	2.2	2.7	2.7	2.7	4.0	5.5	5.6
	la	nt temperature	kW	2.4	2.9	2.7	2.9	4.5	6.1	6.2
	at bivaior	ion limit temperature	kW	1.8	2.3	2.3	2.3	3.2	4.6	4.8
	Back Up Heating	<u> </u>	kW	0.5	0.5	0.5	0.5	1.0	1.3	1.4
	Annual Electricity	<u> </u>	kWh/a	908	974	973	998	1520	2312	2410
	SCOP*4	Consumption	KVVII/d	4.16	4.60	4.60	4.49	4.61	4.12	4.07
	SCOP	Energy Efficiency (Nooe*4	4.16 A+	4.60 A++	4.60 A++	4.49 A+	4.61 A++	4.12 A ⁺	4.07 A+
Onovotin	g Current (max)	Ellergy Efficiency C	A	10.0	12.2	12.2	12.2	18.0	18.0	18.0
	Dimensions	H × W × D	_	10.0			12.2			
Jutaoor Jnit	Weight	lu x M x D	mm	33	37	9) - 285 (+59.5)	38	58	0 - 840 (+30) - 330 (+ 58	59
		I C F	kg			37				
	Air Volume	Cooling	m³/min	32.9	27.7	32.9	32.9	42.1	42.1	42.1
	Carrad Larral (CDL)	Heating	m³/min	33.7	33.3	33.3	33.3	43.0	43.0	43.0
	Sound Level (SPL)	Cooling	dB(A)	49	44	46	46	46	48	48
	Carrad Larral (D)471 \	Heating	dB(A)	50	50	51	51	50	53	54
	Sound Level (PWL)	Cooling	dB(A)	60	59	61	61	60	63	63
	Operating Current	Cooling	A	Pending	Pending	Pending	Pending	Pending	Pending	Pending
	D	Heating	A	Pending	Pending	Pending	Pending	Pending	Pending	Pending
	Breaker Size	he eron	Α	15	15	15	15	25	25	25
Ext. Piping	Port Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2		6.35 × 2 / 9.52 × 2		6.35 × 3 / 9.52 × 3		
hina	Total Piping Length		m	20	30	30	30	50	60	60
	Each Indoor Unit Pip	oing Length (max)	m	15	20	20	20	25	25	25
	Max. Height		m	10	15(10)* ³	15(10)*3	15(10)*3	15(10)*3	15(10)*3	15(10)*3
	Chargeless Length		m	20	30	30	30	Refer to "	Method Of Charging	retrigerant"
	ed Operating Range	Cooling	°C				-10 ~ +46			
[Outdoor]		Heating	°C				-15 ~ +24			

1.2 kg 1.2 kg ■MXZ-2F33 Total refrigerant Pre charge 1.0 kg 1.0 kg



- #1 If you connect indoor unit number 3 or 4 units, please add to charge refrigerant amount 0.5kg
 #2 If you connect specific indoor unit(s), please add to charge refrigerant amount 0.17kg per 1unit
 Specific indoor unit is following: MSZ-LN18(25/35VG MLZ-KP25/35/50VA
 SEZ-M50DA(L) PCA-M50/60KA
 PEAD-M50JA(L)Q

*3 In case total refrigerant amount exceeds 2.4kg depending on combination, please charge only 1.0kg for maximum.

MXZ _{se}

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



R410A

3-port 4-port

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



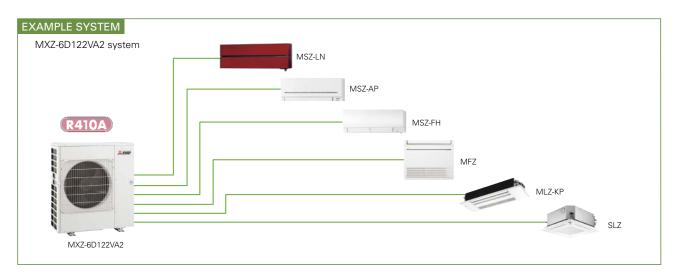
R410A

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



R410A

6-port MXZ-6D122VA2



Handle Up to 6 Rooms with a Single Outdoor Unit

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

Support Functions -

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

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

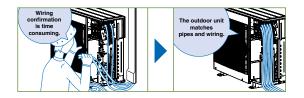
* Function cannot be used when the outdoor temperature is below 0°C. The correction process requires 10–20 minutes to complete and must be conducted with the unit set to the "Cooling" mode.

Ampere Limit Adjustment*

(4E83/5E102/6D122)

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

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



Operation Lock

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

















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

N: Please refer to the NOTE below.

	rerter Multi - Split He	at Pump)		Up to 6 Indoor Units
Indoor Ur				Please refer to (*5)
Outdoor I				MXZ-6D122VA2
Refrigera	nt			R410A*1
Power	Source			Outdoor power supply
Supply	Outdoor (V/Phase/H	łz)		220 - 230 - 240V / Single / 50
Cooling	Capacity	Rated	kW	12.2
		Min - Max	kW	3.5 - 13.5
	Input*5	Rated	kW	3.66
	EER*6			3.33
		EEL Rank		A
Heating	Capacity	Rated	kW	14.0
		Min - Max	kW	3.5 - 16.5
	Input*5	Rated	kW	3.31
	COP*6			4.23
		EEL Rank		A
Operatin	g Current (max)*5		Α	26.8
	Dimensions	$H \times W \times D$	mm	1048-950-330
Unit	Weight		kg	88
	Air Volume	Cooling	m³/min	63.0
		Heating	m³/min	77.0
	Sound Level (SPL)	Cooling	dB(A)	55
		Heating	dB(A)	57
	Sound Level (PWL)	Cooling	dB(A)	69
	Breaker Size		Α	32
Ext.	Diameter	Liquid	mm	6.35×6
Piping		Gas	mm	12.7×1+9.52×5
	Total Piping Length	(max)	m	80
	Each Indoor Unit Piping	Length (max)	m	25
	Max. Height	-	m	15 (10)* ³
	Chargeless Length		m	30
Guarante	ed Operating Range	Cooling	°C	-10 ~ +46
[Outdoor]		Heating	°C	-15 ~ +24

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

MXZ-2D33VA

No. of 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 be connected.)			

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

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

MXZ-3E54VA

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

MXZ-3E68VA MXZ-4E72VA

No. of	Pipe lei	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

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





Stylish Design with Flat Panel Front

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



Easy to create various combinations

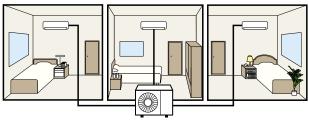
Wide range of simple combinations only possible using multi-port outdoor units.

Two bedrooms

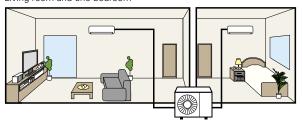




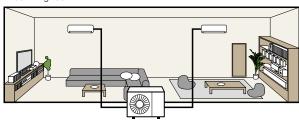
Three bedrooms

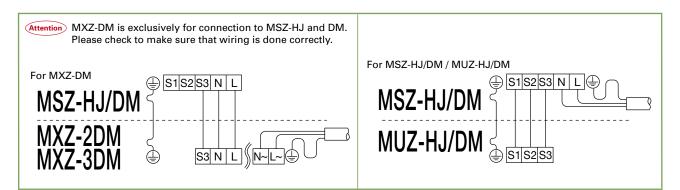


Living room and one bedroom



Wide living room

















Type (Inv	erter Multi - S	plit Heat Pump)		Up to 2 Indoor Units	Up to 3 Indoor Units			
Indoor Un		,		·	efer to (*4)			
Outdoor U	Jnit			MXZ-2DM40VA	MXZ-3DM50VA			
Refrigerar	nt			R410A*1				
Power	Source			Outdoor power supply				
Supply	Outdoor (V/F	Phase/Hz)		230 / Single / 50				
Cooling	Capacity Rated		kW	4.0	5.0			
·	Input*4	Rated	kW	1.05	1.13			
	EER*4			3.81	4.42			
		EEL Rank*4		A	A			
	Design Loa	nd	kW	4.0	5.0			
		ctricity Consumption*2	kWh/a	226	283			
	SEER*4			6.1	6.1			
		Energy Efficiency	Class*4	Α++	A++			
Heating (Average Season)	Capacity	Rated	kW	4.3	6.0			
	Input	Rated	kW	1.16	1.31			
	COP*4			3.71	4.58			
		EEL Rank*4		A	A			
	Design Loa	ıd '	kW	3.2	4.0			
	Declared	at reference 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 Ele	ctricity Consumption*2	kWh/a	1105	1455			
	SCOP*4			4.0	3.8			
		Energy Efficiency	Class*4	A ⁺	A			
Operating	g Current (ma		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 Cu	rrent Cooling	Α	5.1	5.0			
		Heating	А	5.6	5.8			
	Breaker Size		А	15	25			
Ext.	Port Diamete	11	mm	6.35 × 2 / 9.52 × 2	6.35 × 3 / 9.52 × 3			
Piping	Total Piping I		m	30	50			
		Jnit Piping Length (max)	m	20	25			
	Max. Height		m	15 (10)* ³	15 (10)* ³			
	Chargeless L	-	m	20	40			
	ed Operating Ra		°C		~ +46			
[Outdoor]		Heating	°C	-15	~ +24			

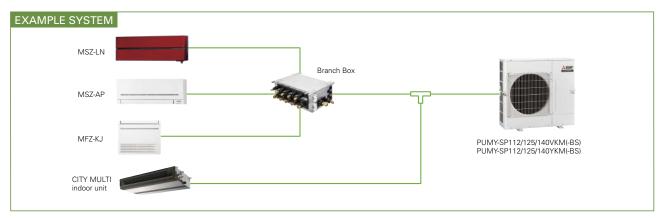
Heating | C | Heating | C | Heating | C | Heating | C | Heating | Heating | C | Heatin

PUMY-SP SERIES

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



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



Light weight and compact size

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



Unobstructive, compact, and easy to hide from view

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



Industry's top energy efficiency*

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

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



Super silent mode*

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

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

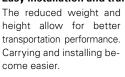
Rear piping is available

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

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

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

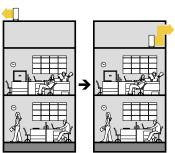




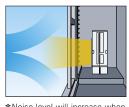


An external static pressure of 30Pa

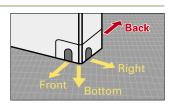
The installation location is flexible thanks to its 30Pa static pressure. You can install it in locations that you could not before.



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



*Noise level will increase when using this function.



















Model			PUMY-SP112VKM(-BS)	PUMY-SP125VKM(-BS)	PUMY-SP140VKM(-BS)	PUMY-SP112YKM(-BS)	PUMY-SP125YKM(-BS)	PUMY-SP140YKM(-BS)		
Power Source				220 - 230 - 240V 50Hz / 2			80 - 400 - 415V 50Hz / 3			
Cooling Capacity	*1	kW	12.5	14.0	15.5	12.5	14.0	15.5		
(nominal)	Power Input	kW	3.10	3.84	4.70	3.10	3.84	4.70		
	Current Input	А	14.38 - 13.75 - 13.18 / 14.38	17.81 - 17.04 - 16.33 / 17.81	21.80 - 20.85 - 19.88 / 21.80	4.96 - 4.71 - 4.54 / 4.96	6.14 - 5.83 - 5.62 / 6.14	7.52 - 7.14 - 6.88 / 7.52		
	EER	kW/kW	4.03	3.65	3.30	4.03	3.65	3.30		
Temp. Range	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		
of Cooling*5	Outdoor Temp. *3	D.B.	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C		
Heating Capacity	*2	kW	14.0	16.0	16.5	14.0	16.0	16.5		
(nominal)	Power Input	kW	3.17	3.90	4.02	3.17	3.90	4.02		
	Current Input	А	14.70 - 14.06 - 13.48 / 14.70	18.09 - 17.30 - 16.58 / 18.09	18.65 - 17.83 - 17.09 / 18.65	5.07 - 4.82 - 4.64 / 5.07	6.24 - 5.93 - 5.71 / 6.24	6.43 - 6.11 - 5.89 / 6.43		
	COP	kW/kW	4.42	4.10	4.10	4.42	4.10	4.10		
Temp. Range	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		
of Heating	Outdoor Temp.	W.B.	-20.0 - +15.0°C	-20.0 - +15.0°C	-20.0 - +15.0°C	-20.0 - +15.0°C	-20.0 - +15.0°C	-20.0 - +15.0°C		
Indoor Unit	Total Capacity			50	to 130% of outdoor unit	capacity				
Connectable	Model / Quantity	City Multi	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12		
		Branch Box*10	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8		
	Mixed Branch	City Multi	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5		
	System 1 unit	Branch Box	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5		
	Branch Box	City Multi	15 - 140 / 3 or 2*8	15 - 140 / 3	15 - 140 / 3	15 - 140 / 3 or 2*8	15 - 140 / 3	15 - 140 / 3		
	2 units	Branch Box	15 - 100 / 7 or 8*8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 7 or 8*8	15 - 100 / 8	15 - 100 / 8		
Sound Pressure Le (Cooling / Heating		dB <a>	52 / 54	53 / 56	54 / 56	52 / 54	53 / 56	54 / 56		
Sound Power Leve	el (Cooling)	dB <a>	72	73	74	72	73	74		
Refrigerant Piping	Liquid Pipe	mm		9.52 Flare						
Diameter	Gas Pipe	mm			15.88	Flare				
Fan	Type × Quantity				Propeller	Fan × 1				
	Air Flow Rate	m³/min	77	83	83	77	83	83		
		L/s	1,283	1,383	1,383	1,283	1,383	1,383		
		cfm	2,719	2,931	2,931	2,719	2,931	2,931		
	Motor Output	kW		0.20						
	External Static Press.	Pa			0 Pa / 3	30 Pa*9				
Compressor	Type × Quantity				Twin rotary herme	tic compressor x 1				
	Starting Method				Inve	erter				
	Motor Output	kW	3.1	3.5	3.7	3.1	3.5	3.7		
External Dimension	ns (H × W × D)	mm			981×1,050	×330 (+40)				
Net Weight		kg (lbs)		93 (205)*6			94 (207)*7			
Pre-Chareged	Weight	kg	3.5	3.5	3.5	3.5	3.5	3.5		
Quantity	CO ₂ Equivalent	t	7.31	7.31	7.31	7.31	7.31	7.31		
Max Added	Weight	kg	9.0	9.0	9.0	9.0	9.0	9.0		
Quantity	CO ₂ Equivalent	t	18.79	18.79	18.79	18.79	18.79	18.79		

*1,*2 Nominal conditions

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

^{**13 10} to 52°C; incase of connecting PKFY-P15/P20/P25/BM, PFFY-P20/P25/P32VKM, PFFY-P20/P25/P32VLE(R)M indoor unit and M series indoor unit with connection kit and M series, S series, and P series type indoor unit with branch box.

**4 Up to P100 when connecting via branch box.

**5 Up to 11 units when connecting via branch box.

**6 94 (207), for PUMY-SP112/125/140YKM-BS

**7 95 (209), for PUMY-SP112/125/140YKM-BS

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

**9 0 Pa as initial setting

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

Туре					Bran	ch Box		
Model Nam	e			PAC-MK53BC	PAC-MK33BC	PAC-MK53BCB	PAC-MK33BCB	
Connectable	Number of Indoo	r Units		Max. 5	Max. 3	Max. 5	Max. 3	
Power	Source				Outdoor power supply, Branch B	ox / Outdoor separate power supply		
Supply	Outdoor (V/Phase/Hz)				1-phase, 220 -	230 - 240V, 50Hz		
Total Input kW					0	.003		
Operating C	urrent		А	0.05				
Dimensions H × W × D mm			mm	170 - 450 - 280				
Weight			kg	7.4	6.7	7.0	6.5	
Piping	Branch [Indoor Side]	Liquid	mm	6.35 × 5	6.35 × 3	6.35 × 5	6.35 × 3	
[diameter]		Gas	mm	9.52 × 4, 12.7 × 1	9.52 × 3	9.52 × 4, 12.7 × 1	9.52 × 3	
	Main	Liquid	mm		S	9.52		
[Outdoor Side] Gas mm Connection Method				15.88				
				Flared Brazed				
Wiring	to Indoor Unit				3-wire +	Earth wire		
	to Outdoor Unit				3-wire +	Earth wire		

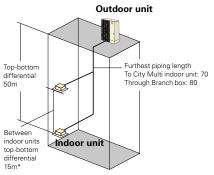
<Branch box compatible table>

Outdoor unit Branch box	PAC-MK31/51BC(B)	PAC-MK32/52BC(B)	PAC-MK33/53BC(B)
PUMY-SP112/125/140V/ YKM.TH(-BS)	✓	N/A	N/A
PUMY-SP112/125/140V/ YKMR1.TH(-BS)	N/A	N/A	✓

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

Refrigerant Piping Lengths	Maximum meters	
Total length	120	
Maximum allowable lengthTo	City Multi indoor	
unit: 70		
Т	hrough Branch box: 80	

Vertical differentials between units	Maximum meters
Indoor/outdoor (outdoor higher)	50
Indoor/outdoor (outdoor lower)	30
Indoor/indoor	15*



*In case of branch box connection: 12m

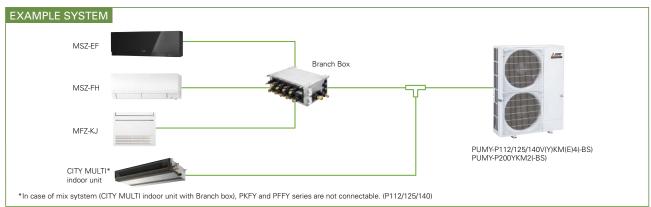
PUMY-P SERIES

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



(R410A)

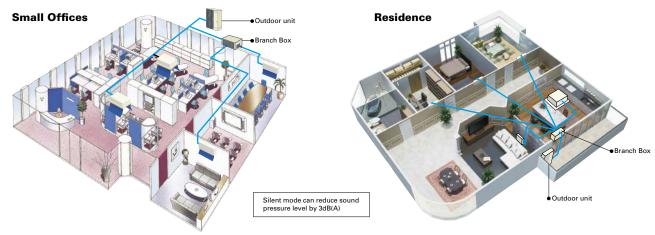
PUMY-P112/125/140VKM4(-BS) PUMY-P112/125/140YKM(E)4(-BS) PUMY-P200YKM2(-BS)



The two-pipe zoned system designed for Heat Pump Operation

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

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



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

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

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

- *PUMY-P112/125/140VKM4(-BS), PUMY-P112/125/140YKM(E)4(-BS) only.
- * Noise level will increase when using this function



^{*1} Include system with connection kit *2 In case of including PKPY or PFFY, height between units is 30m. *3 In case of branch box connection: 12m





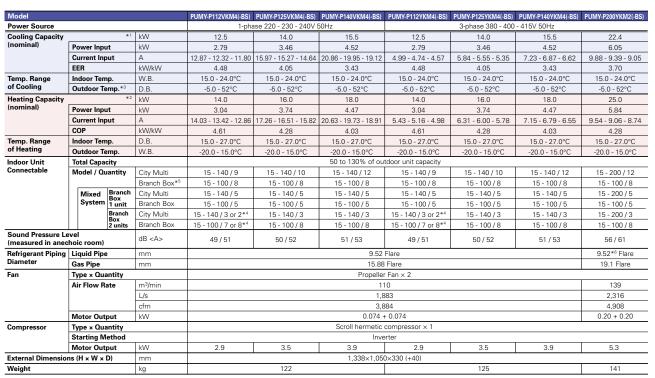












*1.*2 Nominal conditions

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

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

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

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

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

Model			PUMY-P112YKME4(-BS)	PUMY-P125YKME4(-BS)	PUMY-P140YKME4(-BS)
Power Source				3-phase 380 - 400 - 415V 50Hz	
Cooling Capacity	*1	kW	12.5	14.0	15.5
(nominal)	Power Input	kW	2.79	3.46	4.52
	Current Input	А	4.99 / 4.74 / 4.57	5.84 / 5.55 / 5.35	7.23 / 6.87 / 6.62
	EER	kW/kW	4.48	4.05	3.43
Temp. Range	Indoor Temp.	W.B.		15 to 24°C	
of Cooling	Outdoor Temp.*3	D.B.		−5 to 52°C	
Heating Capacity	*2	kW	14.0	16.0	18.0
(nominal)	Power Input	kW	3.04	3.74	4.47
	Current Input	А	5.43 / 5.16 / 4.98	6.31 / 6.00 / 5.78	7.15 / 6.79 / 6.55
	COP	kW/kW	4.61	4.28	4.03
Temp. Range	Indoor Temp.	D.B.		15 to 27°C	
of Heating	Outdoor Temp.	W.B.		−20 to 15°C	
Indoor Unit	Total Capacity			50 to 130% of outdoor unit capacity	
Connectable	Model / Quantity	City Multi	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12
		Branch Box*5	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8
	Mixed Branch	City Multi	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5
	System 1 unit	Branch Box	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5
	Branch Box	City Multi	15 - 140 / 3 or 2*4	15 - 140 / 3	15 - 140 / 3
	2 units	Branch Box	15 - 100 / 7 or 8*4	15 - 100 / 8	15 - 100 / 8
Sound Pressure Lo (measured in aneo		dB <a>	49 / 51	50 / 52	51 / 53
Refrigerant Piping	Liquid Pipe	mm		9.52 Flare	
Diameter	Gas Pipe	mm		15.88 Flare	
Fan	Type x Quantity			Propeller Fan × 2	
	Air Flow Rate	m³/min		110	
		L/s		1,833	
		cfm		3,884	
	Motor Output	kW		0.074 + 0.074	
Compressor	Type × Quantity	'		Scroll hermetic compressor x 1	
-	Starting Method			Inverter	
	Motor Output	kW	2.9	3.5	3.9
External Dimensio	ns (H × W × D)	mm		1,338×1,050×330 (+40)	
Weight		kg		136	

*1,*2 Nominal conditions

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

- *3 10 to 52°C D.B.: When connecting PKFY-P15/20/25VBM, PFFY-P20/25/32VKM and PFFY-P20/25/32VLE(R)M, PEFY-P-VMA3, M, S and P series indoor unit.
 *4 When connecting 7 indoor units via branch box, connectable City Multi indoor units are 3; connecting 8 indoor units wia branch box, connectable indoor units are 2.
- *5 At least 2 indoor units must be connected when using branch box.

Туре					Branc	h Box	
Model Nam	e			PAC-MK53BC	PAC-MK33BC	PAC-MK53BCB	PAC-MK33BCB
Connectable	Number of Indoo	r Units		Max. 5	Max. 3	Max. 5	Max. 3
Power	Source				Outdoor power supply, Branch Bo	x / Outdoor separate power supply	
Supply	Outdoor (V/Phas	e/Hz)			1-phase, 220/230/240V, 5	0Hz, 1-phase, 220V, 60Hz	
Total Input	•		kW		0.0	003	
Operating C	urrent		А		0.	05	
Dimensions		$H \times W \times D$	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		F	-lared	Braze	d
Wiring	to Indoor Unit				3-wire + I	Earth wire	
	to Outdoor Unit				3-wire + I	Earth wire	

Indoor Unit Compatibility Table

■ MXZ Series R32
Possible combinations of outdoor units and indoor units are shown below.

		Outdoor Unit	10/7	10/7	Inverter Models		140/7	140/7
door Unit			MXZ- 2F33VF	MXZ- 2F42VF	MXZ- 2F53VF(H)	MXZ- 3F54VF	MXZ- 3F68VF	MXZ- 4F72VF
1 series	Wall-	MSZ-LN18VG(W)(V)(R)(B)	•	•		•	•	•
	Mounted	MSZ-LN25VG(W)(V)(R)(B)	•	•	•	•	•	•
		MSZ-LN35VG(W)(V)(R)(B)		•	•	•	•	•
		MSZ-LN50VG(W)(V)(R)(B)						
		MSZ-AP15VF	•	•	•		•	•
		MSZ-AP20VF	•	•	•	•	•	•
		MSZ-AP25VG	•	•	•	•	•	•
		MSZ-AP35VG		•	•	•	•	•
		MSZ-AP42VG			•	•	•	•
		MSZ-AP50VG			•	•	•	•
		MSZ-FH25VE2						
		MSZ-FH35VE2						
		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)			•	•	•	•
		MSZ-SF15VA						
		MSZ-SF20VA						
		MSZ-SF25VE3						
		MSZ-SF35VE3						
		MSZ-SF42VE3						
		MSZ-SF50VE3						
		MSZ-GF60VE2						
		MSZ-GF71VE2						
		MSZ-DM25VA						
		MSZ-DM35VA						
		MSZ-HJ25VA						
		MSZ-HJ35VA						
		MSZ-HJ50VA						
	Floor- Standing	MFZ-KJ25VE2						
	Stariumy	MFZ-KJ35VE2						
		MFZ-KJ50VE2						
	1-way Cassette	MLZ-KP25VF	•	•	•	•	•	•
	Odosotto	MLZ-KP35VF		•	•	•	•	•
		MLZ-KP50VF		_	_	•	•	•
series	2×2 Cassette	SLZ-M15FA	•	•	•	•	•	•
	Guocomo	SLZ-M25FA	•	•	•	•	•	•
		SLZ-M35FA		•	•	•	•	•
		SLZ-M50FA	_	_		•	•	•
	Ceiling- Concealed	SEZ-M25DA*2	•	•	•	•	•	•
		SEZ-M25DAL*2	•	•	•	•	•	•
		SEZ-M35DA		•	•	•	•	•
		SEZ-M35DAL		•	•	•	•	•
		SEZ-M50DA				•	•	•
		SEZ-M50DAL				•	•	•
		SEZ-M60DA					•	•
		SEZ-M60DAL					•	•
		SEZ-M71DA						
noring	4 14/21/	SEZ-M71DAL PLA-RP50EA						
series	4-way Cassette							
		PLA-RP60EA						
	Coille	PLA-RP71EA						
	Ceiling- Suspended	PCA MEOKA				•	•	•
		PCA-M60KA					•	•
	L	PCA-M71KA				- **		
	Ceiling- Concealed	PEAD-M50JA				●*1 ●*4	• 11	011
		PEAD-M50JAL				● *1	•*1	*1
		DEAD MCC IA						
		PEAD-M60JA						
	Solicated	PEAD-M60JAL PEAD-M71JA						

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

■ MXZ Series R410A

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

loor Unit			MXZ-*3 2D33VA		MXZ-*3 2D53VA(H)2	MXZ-*3 2E53VAHZ	MXZ-*3 2DM40VA	MXZ-*3 3E54VA	MXZ-*3 3E68VA	MXZ-*3 3DM50VA	MXZ-*3 4E72VA	MXZ-*3 4E83VA	MXZ-*3 4E83VAHZ	MXZ-*3 5E102VA	
series	Wall-	MSZ-LN18VG(W)(V)(R)(B)													
	Mounted	MSZ-LN25VG(W)(V)(R)(B)	•	•	•			•	•			•	•	•	•
		MSZ-LN35VG(W)(V)(R)(B)			•			•					•	•	•
		MSZ-LN50VG(W)(V)(R)(B)													
		MSZ-AP15VF	•		•	•		•	•				•	•	•
		MSZ-AP20VF	•	•	•	•		•	•		•	•	•	•	•
		MSZ-AP25VG*7	•					•						•	•
		MSZ-AP35VG*7		•	•	•		•	•		•	•	•	•	•
		MSZ-AP42VG*7				•		•	•			•			
		MSZ-AP50VG*7			•	•		•	•		•	•	•	•	•
		MSZ-FH25VE2						•	•			•	•		
		MSZ-FH35VE2		•	•	•		•	•		•	•	•	•	
		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)			•			•	•				•	•	
		MSZ-SF15VA	•	•	•	•		•	•		•	•	•	•	
		MSZ-SF20VA	•	•	•	•		•	•				•	•	-
		MSZ-SF25VE3	•	•	•	•		•	•		•	•	•	•	
		MSZ-SF35VE3		•	•	•		•	•			•	•	•	(
		MSZ-SF42VE3			•	•		•	•		•	•	•	•	
		MSZ-SF50VE3			•				•				•	•	
		MSZ-GF60VE2							•			•	•	•	
		MSZ-GF71VE2										•	•	•	
		MSZ-DM25VA								•					
		MSZ-DM35VA													
		MSZ-HJ25VA					•			•					
		MSZ-HJ35VA													
		MSZ-HJ50VA	*4*5	- *4	- *4			- *4	- *4	•				_	
	Floor- Standing	MFZ-KJ25VE2	45	*4	*4	•		*4 *4	•*4					•	
		MFZ-KJ35VE2		• •	• •	•		*4	*4		•	•	•	•	
	4	MFZ-KJ50VE2									•	•	•	•	
	1-way Cassette	MLZ-KP25VF	•	•	•	•		•	•		•	•	•	•	
		MLZ-KP35VF MLZ-KP50VF			•				•			•	•	•	
eries	2×2							•	•		•	•	•	•	-
eries	Cassette	SLZ-M15FA SLZ-M25FA													
			•	•	•	•		•	•		•	•	•	•	
		SLZ-M35FA		•	•	•		•	•		•	•	•	•	
	Cailing	SLZ-M50FA SEZ-M25DA*2						•	•		•	•	•	•	(
	Ceiling- Concealed		•	•	•	•		•	•		•	•	•	•	
		SEZ-M25DAL ^{*2} SEZ-M35DA	•	•	•	•		•	•		•	•	•	•	
		SEZ-M35DA SEZ-M35DAL			•				•			•	•	•	
		SEZ-M35DAL SEZ-M50DA			-	-			•						
		SEZ-M50DA SEZ-M50DAL							•			•	•	•	
		SEZ-M60DA						-	•			•	•	•	
		SEZ-M60DAL							•			•	•		
		SEZ-M71DA							-		-	•	•		
		SEZ-M71DAL										•	•	•	
eries	4-way	PLA-RP50EA						•	•		•	•	•	•	
CHOS	Cassette	PLA-RP60EA						-	•				•*6	•	
		PLA-RP60EA PLA-RP71EA										•	• *6	•	
	Ceiling-	PCA-M50KA						•	•		•	•	• *6	•	
	Suspended	PCA-M60KA						-	•				•*6	•	
		PCA-M60KA PCA-M71KA							-		•	•	•*6	•	
	Coilir	PEAD-M50JA						* 1	• *1		* 1	• 1	*1*6	• 1	
	Ceiling- Concealed	PEAD-M50JA PEAD-M50JAL						_			_	0 *1	_	_	_
								• *1	●*1		• *1		●*1*6		
		PEAD-M60JA										0*1	*1*6		
		PEAD-M60JAL										0 *1	●*1*6		
		PEAD-M71JA										1	*1*6	*1	
		PEAD-M71JAL										* 1	*1*6	■*1	

^{*1} Maximum total current of indoor units: 3A or less.
*2 SEZ-KD25 cannot be connected with MXZ-2D(E)/3E/4E/5E when total capacity of connected indoor units is equivalent to outdoor capacity (capacity ratio is 1).
*3 MXZ outdoor units are not designed to operate with a single indoor unit with one-to-one piping work. Please install at least two indoor units.
*4 When connecting the MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please refer to page 102.
*5 Regarding MXZ-2D33, the second unit should be a different type in the case of selecting one MFZ-KJ.
*6 P series cannot be connected with MXZ-4E83VAHZ when ampere limit adjustment function is operated.
*7 Connectable outdoor unit are MXZ-2D33VA-E4, MXZ-2D42VA2-E4, MXZ-2D53VA2-E4, MXZ-2E53VAHZ-E2, MXZ-3E58VA-E2, MXZ-3E68VA-E2, MXZ-4E72VA-E2, MXZ-4E83VA-E4, MXZ-4E83VA-E4, MXZ-5E102VA-E4.

■ PUMY-SP Series

Branch Box Connection Compatibility Table

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

 $^{^{\}star}1\ \ Connectable\ outdoor\ units\ are\ PUMY-SP112/125/140V(Y)KMR1.TH\ only.$

LEV Kit Connection Compatibility Table

		TPATIBILITY TABIC					Сар	acity				
Series	I/U Type	Model Name	15	18	20	22	25	35	42	50	60	71
M series	Wall-Mounted	MSZ-LN•VG					•	•				
		MSZ-AP•VF/VG	• *1		● *1		● *1	● *1	● *1	● *1		
		MSZ-FH•VE2					•			•		
		MSZ-EF•VE3		•		•	•	•	•	•		
		MSZ-SF•VA	•		•							
		MSZ-SF•VE3					•	•	•	•		
	Floor-Standing	MFZ-KJ•VE2										

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

CITY MULTI Indoor Unit Compatibility Table

	Thindoor office	Compatibility Ta	Joic					Can	acity					
Series	Туре	Model Name	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140
CITY	1-way Cassette	PMFY-P•VBM-E		•	•	•	•							
MULTI series	2-way Cassette	PLFY-P•VLMD-E		•	•	•	•	•	•		•	•	•	
	4-way Cassette	PLFY-P•VEM-E		•	•	•	•	•	•		•	•	•	
		PLFY-EP•VEM-E *4						•	•		•			
	2×2 Cassette	PLFY-P•VFM-E1	•	•	•	•	•	•						
	Ceiling Concealed	PEFY-P•VMS1(L)-E	•	•	•	•	•	•	•					
		PEFY-P•VMA(L)-E		•	•	•	•	•	•	•	•	•	•	•
		PEFY-P•VMA3(L)-E *1			•	•	•							
		PEFY-•VMH-E					•	•	•	•	•	•	•	•
		PEFY-P•VMR5-E-L/R		•	•	•								
		PEFY-P•VMH-E-F									•			•
	Ceiling Suspended	PCFY-P•VKM-E					•		•			•	•	
	Wall Mounted	PKFY-P•VBM-E	•	•	•									
		PKFY-P•VHM-E				•	•	•						
		PKFY-P•VKM-E							•			•		
	Floor Standing	PFFY-P•VLEM-E		•	•	•	•	•	•					
	Floor Mounted	PFFY-P•VKM-E2		•	•	•	•							
	Concealed	PFFY-P•VLRM-E		•	•	•	•	•	•					
		PFFY-P•VLRMM-E		•	•	•	•	•	•					
	Lossnay	GUF-•RD(H)4 *3						•				•		

^{*1} Authorized connectable indoor units are as follows;
PUMY-SP112: PEFY-P25x2+P32x2,PUMY-SP125: PEFY-P25x1+P32x3, PUMY-SP140: PEFY-P32x2+P40x2
*2 Note that connection is not allowed inside EU countries.
PWFY can not connect to PUMY-SP seires.
*3 Do not connect Lossnay remote controller(s). (PZ-61DR-E, PZ-60DR-E, PZ-52SF-E, PZ-43SMF-E)
*4 PLFY-EP can not connect more than 3units

■ PUMY-P Series

Branch Box Connection Compatibility Table

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

^{*1} PUMY-P200YKM2 is not connectable.

LEV Kit Connection Compatibility Table

<u> </u>	141.7						Сар	acity				
Series	I/U Type	Model Name	15	18	20	22	25	35	42	50	60	71
M series	Wall-Mounted	MSZ-LN•VG					•	•				
		MSZ-AP•VG	•		•		•	•	•	•		
		MSZ-FH•VE2					•			•		
		MSZ-EF•VE3		•		•	•	•	•	•		
		MSZ-SF•VA	•		•							
		MSZ-SF•VE3					•	•	•	•		
	Floor-Standing	MFZ-KJ•VE2					•	•		•		

CITY MULTI Indoor Unit Compatibility Table

0	T	Model Name						Сар	acity					
Series	Туре	Model Name	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140
CITY	1-way Cassette	PMFY-P•VBM-E		•	•	•	•							
MULTI series	2-way Cassette	PLFY-P•VLMD-E		•	•	•	•	•	•		•	•	•	
	4-way Cassette	PLFY-P•VEM-E		•	•	•	•	•	•		•	•	•	
		PLFY-EP•VEM-E*4						•	•		•			
	2×2 Cassette	PLFY-P•VFM-E1	•	•	•	•	•	•						
	Ceiling Concealed	PEFY-P•VMS1(L)-E	•	•	•	•	•	•	•					
		PEFY-P•VMA(L)-E		•	•	•	•	•	•	•	•	•	•	•
		PEFY-P•VMA3-E*1			•				•					
		PEFY-P•VMH-E					•	•	•	•	•	•	•	•
		PEFY-P•VMR-E-L/R		•	•	•								
		PEFY-P•VMH-E-F									•			•
	Ceiling Suspended	PCFY-P•VKM-E							•			•	•	
	Wall Mounted	PKFY-P•VBM-E	•	•	•									
		PKFY-P•VHM-E				•	•	•						
		PKFY-P•VKM-E							•			•		
	Floor Standing	PFFY-P•VLEM-E		•	•	•			•					
	Floor Mounted Concealed	PFFY-P•VKM-E2		•	•	•	•							
		PFFY-P•VLRM-E		•	•	•	•	•	•					
		PFFY-P•VLRMM-E		•	•	•	•	•	•					
	Air to Water unit	PWFY-P•VM-E1/E2-AU*2										•		
	Lossnay	GUF-•RD(H)4*3						•				•		

*1 Authorized connectable indoor units are as follows;
PUMY-P112:PEFY-P25×2+P32×2, PUMY-P125:PEFY-P32×4, PUMY-P140:PEFY-P32×3+P40×1, PUMY-P200YKM2:PEFY-P40×2+P63×2
*2 Note that connection is not allowed inside EU countries.
PWFY can not connect to PUMY-P200YKM2.
*3 Do not connect Lossnay remote controller(s). (PZ-61DR-E, PZ-60DR-E, PZ-52SF-E, PZ-43SMF-E)
*4 PLFY-EP can not connect more than 3 units with PUMY-P Series. PLFY-EP can not connect with PUMY-P200YKM2.

POWERFUL HEATING

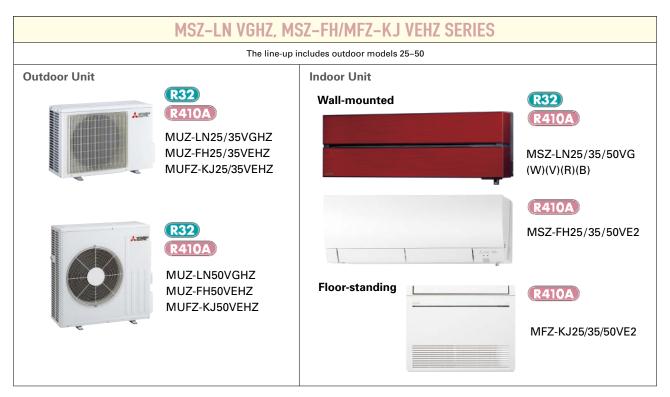


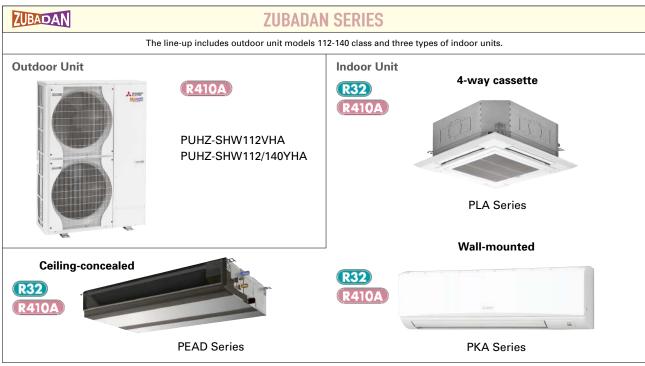




SELECTION

Choose the series that best matches the building layout.







LN VGHZ Single / Multi Multi SERIES LH VEHZ SERIES SERIES

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

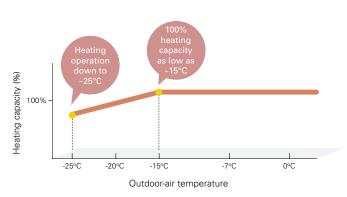


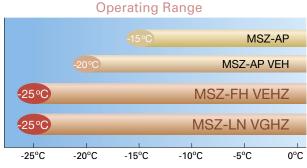




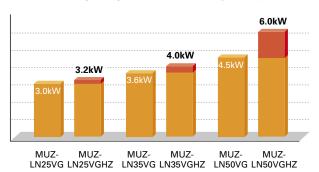
Unparalleled Heating Performance

LN Series and 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.

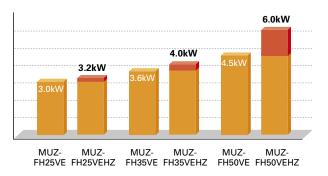




Declared Capacity (at reference design temperature)

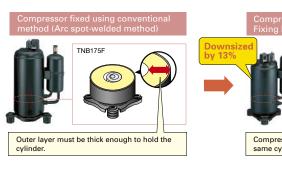


Declared Capacity (at reference design temperature)



Compact, Powerful Compressor

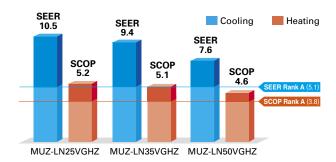
A special manufacturing technology, "Heat Caulking Fixing Method," has been introduced to reduce compressor size while maintaining a high compressor output. This technology enables the installation of a powerful compressor in compact MUZ outdoor units. As a result, excellent heating performance is achieved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

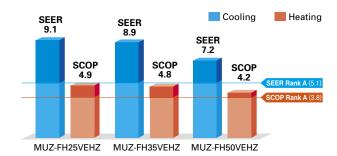


High Energy Efficiency – Energy Rank of A⁺ or higher for All Models



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





Freeze-prevention Heater Equipped as Standard

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

Operation Guaranteed at Outside Temperature of -25°C





Without Freeze-prevention heater

With Freeze-prevention heater



уре						Inverter Heat Pump	
door Ur	nit				MSZ-LN25VG(W)(V)(R)(B)	MSZ-LN35VG(W)(V)(R)(B)	MSZ-LN50VG(W)(V)(R)(B)
utdoor	Jnit				MUZ-LN25VGHZ	MUZ-LN35VGHZ	MUZ-LN50VGHZ
Refrigerant					R32 (*1)		
Power Source					Outdoor Power supply		
upply	Outdoor (V/Phase/H	z)				230/Single/50	
ooling	Design Load			kW	2.5	3.5	5.0
	Annual Electricity Co	nsumpti	on (*2)	kWh/a	83	130	230
	SEER (*4)				10.5	9.4	7.6
		Energy	Efficiency Class		A+++	A+++	A++
	Capacity	Rated		kW	2.5	3.5	5.0
		Min - Ma	ЭX	kW	0.8 - 3.5	0.8 - 4.0	1.4 - 5.8
	Total Input	Rated		kW	0.485	0.820	1.380
eating	Design Load			kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)
Average eason)(+5	Declared Capacity	at refere	ence design temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)
:450П)***		at bivale	nt temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)
		at opera	tion limit temperature	kW	2.3 (-25°C)	3.1 (-25°C)	4.7 (-25°C)
	Back Up Heating Cap			kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
	Annual Electricity Co	nsumpti	on ^(*2)	kWh/a	849	1082	1826
	SCOP (*4)				5.2	5.1	4.6
		Energy Efficiency Class			A+++	A+++	A++
	Capacity Rated			kW	3.2	4.0	6.0
		Min - Max		kW	1.0 - 6.3	1.0 - 6.6	1.8 - 8.7
	Total Input Rated		kW	0.580	0.800	1.480	
peratin	g Current (max)			Α	9.9	10.5	15.2
door	Input Rated		kW	0.029	0.029	0.034	
nit	Operating Current (max)		Α	0.3	0.3	0.4	
	Dimensions	ensions H × W × D		mm	307 - 890 - 233	307 - 890 - 233	307 - 890 - 233
	Weight	ght		kg	15.5	15.5	15.5
	Air Volume		Cooling	m³/min	4.3 - 5.8 - 7.1 - 8.8 - 11.9	4.3 - 5.8 - 7.1 - 8.8 - 12.8	5.7 - 7.6 - 8.9 - 10.6 - 13.9
	(SLo-Lo-Mid-Hi-SHi (*3) ([Ory/Wet))	Heating	m³/min	4.0 - 5.7 - 7.1 - 8.5 - 14.4	4.3 - 5.7 - 7.1 - 8.5 - 13.7	5.4 - 6.4 - 8.5 - 10.7 - 15.7
	Sound Level (SPL)		Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	27 - 31 - 35 - 39 - 46
	(SLo-Lo-Mid-Hi-SHi (*3	")	Heating	dB(A)	19 - 24 - 29 - 36 - 45	19 - 24 - 29 - 36 - 45	25 - 29 - 34 - 39 - 47
	Sound Level (PWL)			dB(A)	58	58	60
utdoor	Dimensions		$H \times W \times D$	mm	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330
nit	Weight			kg	35	36	55
	Air Volume		Cooling	m³/min	31.4	33.8	48.8
			Heating	m³/min	27.4	27.4	51.3
	Sound Level (SPL)		Cooling	dB(A)	46	49	51
			Heating	dB(A)	49	50	54
	Sound Level (PWL)		Cooling	dB(A)	60	61	64
	Operating Current (n	nax)		А	9.6	10.2	14.8
	Breaker Size		А	10	12	16	
xt.	Diameter		Liquid / Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52
iping	Max. Length		Out-In	m	20	20	30
	Max. Height		Out-In	m	12	12	15
	ed Operating Range		Cooling	°C	-10 ~ +46	−10 ~ +46	−10 ~ +46
Outdoor]			Heating	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24

^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

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

(*3) SHI: Super High

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

(*5) Please see page 45 for heating (warmer season/colder season) specifications.



уре						Inverter Heat Pump	
ndoor Ur	iit				MSZ-FH25VE2	MSZ-FH35VE2	MSZ-FH50VE2
utdoor l	Jnit				MUZ-FH25VEHZ	MUZ-FH35VEHZ	MUZ-FH50VEHZ
Refrigerant					R410A (*1)		
ower	Source					Outdoor power supply	
upply	Outdoor (V/Phase/H	lz)				230 / Single / 50	
ooling	Design Load			kW	2.5	3.5	5.0
	Annual Electricity Co	onsumption	on (*2)	kWh/a	96	138	244
	SEER (*4)				9.1	8.9	7.2
		Energy	Efficiency Class		A+++	Δ+++	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
ating	Design Load			kW	3.2	4.0	6.0
verage	Declared Capacity	at refere	nce design temperature	kW	3.2	4.0	6.0
ason)(+5)			nt temperature	kW	3.2	4.0	6.0
		_	tion limit temperature	kW	1.7	2.6	3.8
	Back Up Heating Capacity			kW	0.0	0.0	0.0
		Annual Electricity Consumption (*2)		kWh/a	924	1173	2006
	SCOP (*4)			4.9	4.8	4.2	
		Energy	Efficiency Class		A++	A++	A+
	Capacity	Rated	·	kW	3.2	4.0	6.0
	,,	Min - Max		kW	1.0 - 6.3	1.0 - 6.6	1.7 - 8.7
	Total Input Rated		kW	0.580	0.800	1.480	
eratin	g Current (max)			А	9.6	10.5	14.0
door	Input		Rated	kW	0.029	0.029	0.031
nit	Operating Current (max)		A	0.4	0.4	0.4	
	Dimensions	•		mm	***	305 (+17) - 925 - 234	
	Weight			kg	13.5	13.5	13.5
	Air Volume			m³/min	3.9 - 4.7 - 6.3 - 8.6 - 11.6 (10.5)	3.9 - 4.7 - 6.3 - 8.6 - 11.6 (10.5)	6.4 - 7.4 - 8.6 - 10.1 - 12.4
	(SLo-Lo-Mid-Hi-SHi (*3) (I	Dry/Wet))	Heating	m³/min	4.0 - 4.7 - 6.4 - 9.2 - 13.2	4.0 - 4.7 - 6.4 - 9.2 - 13.2	5.7 - 7.2 - 9.0 - 11.2 - 14.6
	Sound Level (SPL)		Cooling	dB(A)	20 - 23 - 29 - 36 - 42	21 - 24 - 29 - 36 - 42	27 - 31 - 35 - 39 - 44
	(SLo-Lo-Mid-Hi-SHi (*	3))	Heating	dB(A)	20 - 24 - 29 - 36 - 44	21 - 24 - 29 - 36 - 44	25 - 29 - 34 - 39 - 46
	Sound Level (PWL)		1	dB(A)	58	58	60
ıtdoor	Dimensions		H × W × D	mm	550 - 80		880 - 840 - 330
nit	Weight		1	kg	37	37	55
	Air Volume		Cooling	m³/min	31.3	33.6	48.8
			Heating	m³/min	31.3	33.6	51.3
	Sound Level (SPL)		Cooling	dB(A)	46	49	51
			Heating	dB(A)	49	50	54
	Sound Level (PWL)		Cooling	dB(A)	60	61	64
	Operating Current (r	nax)	1 5	A	9.2	10.1	13.6
	Breaker Size	•		A	10	12	16
t.	Diameter		Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7
ping	Max. Length		Out-In	m	20	20	30
	Max. Height		Out-In	m	12	12	15
uarante	ed Operating Range		Cooling	℃	-10 ~ +46	-10 ~ +46	-10 ~ +46
			L9		10 11 170	10 1170	10 : 170

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

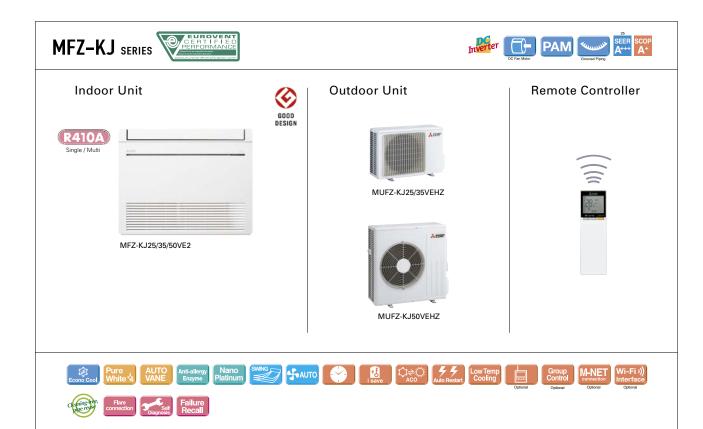
The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

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

(*3) SHI: Super High

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

(*5) Please see page 45 for heating (warmer season) specifications.



Туре						Inverter Heat Pump			
Indoor Un	iit				MFZ-KJ25VE2	MFZ-KJ35VE2	MFZ-KJ50VE2		
Outdoor Unit				MUFZ-KJ25VEHZ	MUFZ-KJ35VEHZ	MUFZ-KJ50VEHZ			
Refrigerant					R410A (*1)				
Power Source						Outdoor power supply			
Supply	Outdoor (V/Phase/H	z)				230 / Single / 50			
Cooling	Design Load			kW	2.5	3.5	5.0		
	Annual Electricity Co	nsumpti	on (*2)	kWh/a	102	150	266		
	SEER (*4)				8.5	8.1	6.5		
		Energy	Efficiency Class		A+++	A++	A++		
	Capacity	Rated		kW	2.5	3.5	5.0		
		Min - Ma	ax	kW	0.5 - 3.4	0.5 - 3.7	1.6 - 5.7		
	Total Input	Rated		kW	0.540	0.940	1.410		
leating	Design Load			kW	3.5	3.6	4.5		
Average	Declared Capacity	at refere	ence design temperature	kW	3.5	3.6	4.5		
Season)		at bivale	nt temperature	kW	3.5	3.6	4.5		
		at opera	tion limit temperature	kW	1.6	2.3	3.3		
	Back Up Heating Cap			kW	0.0	0.0	0.0		
	Annual Electricity Co	onsumpti	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 - Max		kW	1.2 - 5.1	1.2 - 5.8	2.2 - 8.4		
	Total Input Rated		kW	0.770	1.100	1.610			
Operatin	g Current (max)			Α	4.42	3.91	3.73		
ndoor	Input Rated		kW	0.016	0.016	0.038			
Unit	Operating Current (max)		Α	0.17	0.17	0.34			
	Dimensions	mensions 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) ([Ory/Wet))	Heating	m³/min	3.9 - 5.1 - 6.2 - 7.7 - 9.7	3.9 - 5.1 - 6.2 - 7.7 - 9.7	6.0 - 7.4 - 9.4 - 11.6 - 14.0		
	Sound Level (SPL)		Cooling	dB(A)	20 - 25 - 30 - 35 - 39	20 - 25 - 30 - 35 - 39	27 - 31 - 35 - 39 - 44		
	(SLo-Lo-Mid-Hi-SHi (*3	")	Heating	dB(A)	19 - 25 - 30 - 35 - 41	19 - 25 - 30 - 35 - 41	29 - 35 - 40 - 45 - 50		
	Sound Level (PWL)			dB(A)	49	50	56		
Outdoor	Dimensions		$H \times W \times D$	mm	550 - 80		880 - 840 - 330		
Jnit	Weight			kg	37	37	55		
	Air Volume		Cooling	m³/min	31.3	31.3	45.8		
			Heating	m³/min	33.6	33.6	45.8		
	Sound Level (SPL)		Cooling	dB(A)	46	47	49		
			Heating	dB(A)	51	51	51		
	Sound Level (PWL)		Cooling	dB(A)	59	60	63		
	Operating Current (n	nax)		Α	9.2	10	13.6		
	Breaker Size			Α	10	12	16		
Ext.	Diameter		Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7		
Piping	Max. Length		Out-In	m	20	20	30		
	Max. Height		Out-In	m	12	12	15		
	ed Operating Range		Cooling	°C	−10 ~ +46	−10 ~ +46	−10 ~ +46		
0.11.1		Heating	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24			

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

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

(*3) SHI: Super High

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

ZUBADAN SERIES

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

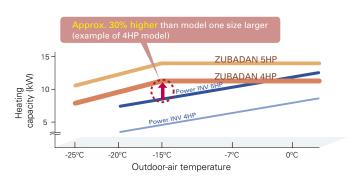


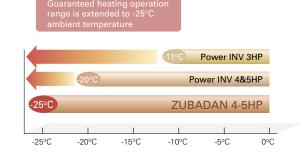
* Units in photo are Japanese models.

European model specifications are different.

Improved Heating Performance

Mitsubishi Electric's unique "Flash Injection" circuit achieves remarkably high heating performance. This technology has resulted in an excellent heating capacity rating in outdoor temperatures as low as -15°C, and the guaranteed heating operation range of the heating mode has been extended to -25°C. Accordingly, the heat-pump units of the ZUBADAN Series are perfect for warming homes in the coldest of regions.

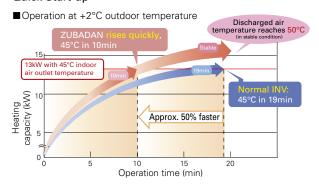


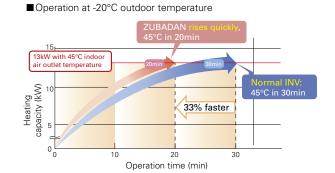


Enhanced Comfort

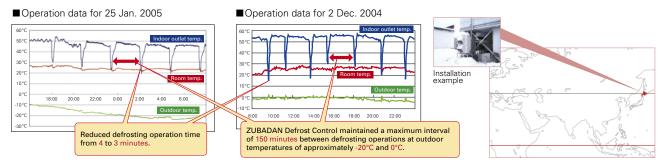
The Flash Injection circuit improves start-up and recover from the defrosting operation. A newly introduced defrost operation control also improves defrost frequency. These features enable the temperature to reach the set temperature more quickly, and contribute to maintaining it at the desired setting.

Quick Start-up





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



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

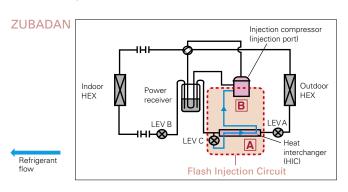


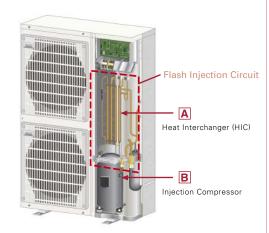
Powerful heating yet annually high energy efficiency in both cooling and heating, achieving rank A and A+.



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

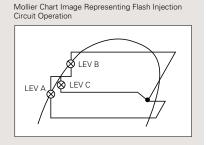
■Flash Injection Circuit





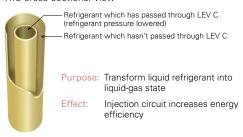
The ZUBADAN Series is equipped with Mitsubishi Electric's original Flash Injection Circuit, which is comprised of a bypass circuit and heat interchanger (HIC). The HIC transforms rerouted liquid refrigerant into a gas-liquid state to lower compression load. This process ensures excellent heating performance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

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



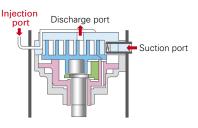
A Heat Interchanger (HIC)

HIC cross-sectional view



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

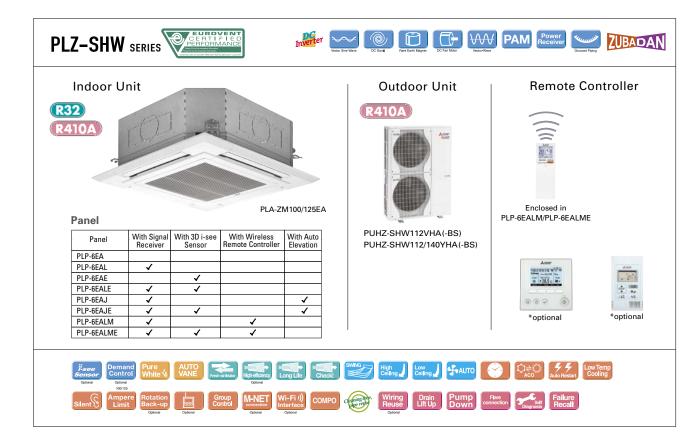
B Injection Compressor



Purpose: To increase the volume of refrigerant being circulated

Improves heating capacity at low outdoor temperatures, and enables higher indoor-air outlet temperature adjustment and higher defrost operation speed

Refrigerant passes from the HIC into the compressor through the injection port. Having two refrigerant inlets makes it possible to raise the volume of refrigerant being circulated when the outdoor temperature is low and at the start of heating operation.



уре					Inverter Heat Pump	
ndoor Unit					M100EA	PLA-ZM125EA
utdoor Ur				PUHZ-SHW112VHA	PUHZ-SHW112YHA	PUHZ-SHW140YHA
efrigerant					R410A*1	
-	Source				Outdoor power supply	
	Outdoor (V/Phase/H			230 / 1 / 50	400 / 3 / 50	400 / 3 / 50
ooling	Capacity	Rated	kW	10.0	10.0	12.5
L		Min - Max	kW	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0
	Total Input	Rated	kW	2.857	2.857	5.000
E	EER			_	-	2.50
L		EEL Rank		_	-	-
[Design Load		kW	10.0	10.0	_
1	Annual Electricity Co	onsumption*2	kWh/a	633	633	-
5	SEER			5.5	5.5	-
		Energy Efficiency Class		А	A	-
	Capacity	Rated	kW	11.2	11.2	14.0
verage eason)		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0
;ason) 1	Total Input	Rated	kW	2.667	2.667	4.000
C	COP			-	-	3.50
		EEL Rank		-	-	-
[Design Load		kW	12.7	12.7	-
[Declared Capacity	at reference design temperature	kW	11.2 (-10°C)	11.2 (-10°C)	-
		at bivalent temperature	kW	11.2 (-7°C)	11.2 (-7°C)	-
		at operation limit temperature	kW	9.3 (-25°C)	9.3 (-25°C)	-
E	Back Up Heating Capacity kW		kW	1.5	1.5	-
1	Annual Electricity Consumption*2 kWh/a		kWh/a	4420	4420	_
5	SCOP			4.0	4.0	-
		Energy Efficiency Class		Α+	A+	-
erating	Current (max)		Α	35.5	13.5	13.5
	nput	Rated	kW	0.07	0.07	0.08
it (Operating Current (n	nax)	Α	0.47	0.47	0.52
[Dimensions <panel> H × W × D</panel>		mm		298-840-840 <40-950-950>	
ī	Neight <panel></panel>	•	kg	26 <5>	26 <5>	26 <5>
1	Air Volume [Lo-Mi2-N	/li1-Hi]	m³/min	19 - 22 - 25 - 28	19 - 22 - 25 - 28	21 - 24 - 26 - 29
5	Sound Level (SPL) [L	o-Mi2-Mi1-Hi]	dB(A)	31 - 34 - 37 - 40	31 - 34 - 37 - 40	33 - 36 - 39 - 41
5	Sound Level (PWL)		dB(A)	61	61	62
	Dimensions	$H \times W \times D$	mm		1350 - 950 - 330 (+30)	
it 1	Weight		kg	120	134	134
H	Air Volume	Cooling	m³/min	100	100	100
		Heating	m³/min	100	100	100
5	Sound Level (SPL)	Cooling	dB(A)	51	51	51
		Heating	dB(A)	52	52	52
5	Sound Level (PWL)	Cooling	dB(A)	69	69	69
1	Operating Current (n	-	Α	35	13	13
E	Breaker Size		Α	40	16	16
rt. [Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Vlax. Length	Out-In	m	75	75	75
	Vlax. Height	Out-In	m	30	30	30
	Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46
outdoor]		Heating	°C	-25 ~ +21	-25 ~ +21	-25 ~ +21

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

PLZ-SHW SERIES





















Panel

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation
PLP-6EA				
PLP-6EAL	✓			
PLP-6EAE		~		
PLP-6EALE	✓	\		
PLP-6EAJ	✓			✓
PLP-6EAJE	✓	>		✓
PLP-6EALM	✓		✓	
PLP-6EALME	1	4	√	

Outdoor Unit

(R410A)



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

Remote Controller



Enclosed in PLP-6EALM/PLP-6EALME































































































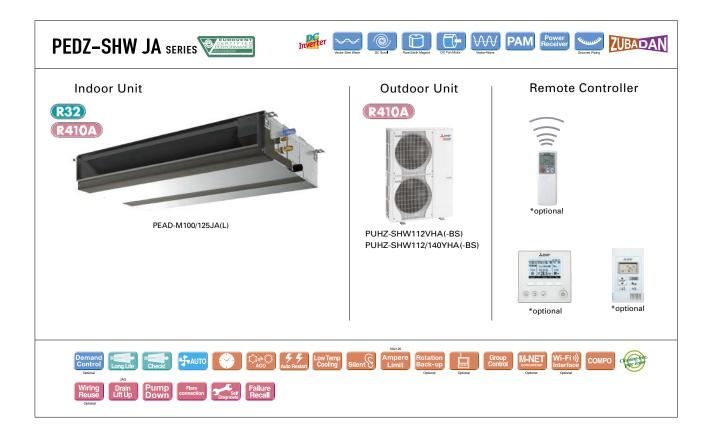






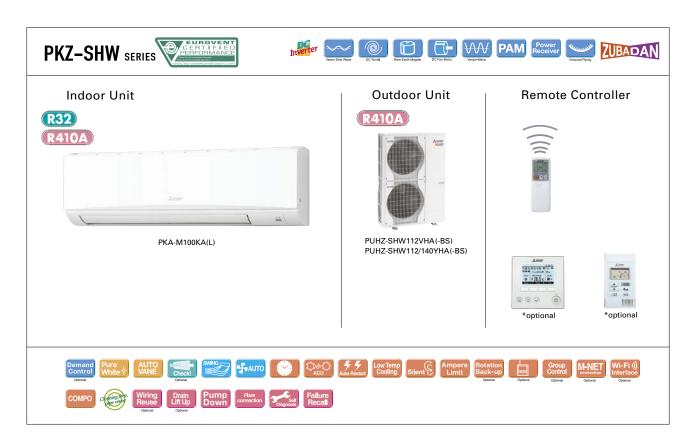
уре					Inverter Heat Pump	
ndoor Uni					RP100EA	PLA-RP125EA
Outdoor U				PUHZ-SHW112VHA	PUHZ-SHW112YHA	PUHZ-SHW140YHA
Refrigeran					R410A*1	
	Source				Outdoor power supply	
	Outdoor (V/Phase/H			230 / 1 / 50	400 / 3 / 50	400 / 3 / 50
Cooling	Capacity	Rated	kW	10.0	10.0	12.5
		Min - Max	kW	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0
	Total Input	Rated	kW	2.940	2.940	5.000
	EER			=	-	2.50
		EEL Rank		=	=	
	Design Load		kW	10.0	10.0	-
	Annual Electricity Co	onsumption*2	kWh/a	661	661	-
	SEER			5.3	5.3	_
		Energy Efficiency Class		A	A	
	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
	Total Input	Rated	kW	2.793	2.793	4.000
	COP			-	-	3.50
		EEL Rank		-	-	=
	Design Load		kW	12.7	12.7	
	Declared Capacity	at reference design temperature	kW	11.2 (-10°C)	11.2 (-10°C)	_
		at bivalent temperature	kW	11.2 (-7°C)	11.2 (-7°C)	_
		at operation limit temperature	kW	9.3 (-25°C)	9.3 (-25°C)	_
	Back Up Heating Capacity kW			1.5	1.5	
			kWh/a	4445	4445	
	SCOP			4.0	4.0	
		Energy Efficiency Class		A+	A+	
_	Current (max)		Α	35.5	13.5	13.7
	Input	Rated	kW	0.07	0.07	0.08
	Operating Current (r		Α	0.46	0.46	0.66
	Dimensions <panel></panel>	H × W × D	mm		298-840-840 <40-950-950>	
	Weight <panel></panel>		kg	24 <5>	24 <5>	26 <5>
	Air Volume [Lo-Mi2-N	-	m³/min	19 - 23 - 26 - 29	19 - 23 - 26 - 29	21 - 25 - 28 - 31
	Sound Level (SPL) [L	o-Mi2-Mi1-Hi]	dB(A)	31 - 34 - 37 - 40	31 - 34 - 37 - 40	33 - 37 - 41 - 44
	Sound Level (PWL)		dB(A)	61	61	65
	Dimensions	$H \times W \times D$	mm		1350 - 950 - 330 (+30)	
	Weight	T-	kg	120	134	134
	Air Volume	Cooling	m³/min	100	100	100
		Heating	m³/min	100	100	100
	Sound Level (SPL)	Cooling	dB(A)	51	51	51
		Heating	dB(A)	52	52	52
	Sound Level (PWL)	Cooling	dB(A)	69	69	69
	Operating Current (r	nax)	Α	35	13	13
	Breaker Size	T	Α	40	16	16
	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	75	75	75
	Max. Height	Out-In	m	30	30	30
	d Operating Range	Cooling*3	°C	−15 ~ +46	−15 ~ +46	-15 ~ +46
Outdoor]		Heating	°C	−25 ~ +21	−25 ~ +21	-25 ~ +21

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



Туре				25.0	Inverter Heat Pump	DEAD AMOUNT		
ndoor Un					M100JA(L)	PEAD-M125JA(L)		
Outdoor l				PUHZ-SHW112VHA(-BS)	PUHZ-SHW112YHA(-BS)	PUHZ-SHW140YHA(-BS)		
	igerant			R410A*1				
ower Supply				Outdoor power supply				
		-	1101	10.0	VHA:230 / Single / 50, YHA:400 / Three / 50	10.5		
Cooling	Capacity	Rated	kW	10.0	10.0	12.5		
	T. (.11	Min - Max	kW	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0		
	Total Input EER	Rated	kW	2.924 (2.904)	2.924 (2.904)	3.895 (3.875)		
	EEK				-	3.21 (3.22)		
	B	EEL Rank	kW	-	-	_		
	Design Load Annual Electricity Co		kWh/a	10.0	10.0	<u> </u>		
		onsumption ^-	kvvn/a	729 (714)	729 (714)			
	SEER			4.8 (4.9)	4.8 (4.9)	-		
eating	Conceity	Energy Efficiency Class	kW	B 11.2	B	14.0		
eating lverage	Capacity	Rated	_	11.2	11.2	14.0		
eason)		Min - Max Rated	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0		
		nated	kW	3.103	3.103	3.879		
	СОР	EEL Rank			-	3.61		
	Dooign Lood	EEL MANK	kW	- 12.7	12.7	<u>-</u>		
	Design Load Declared Capacity	at reference decima torress.	kW	12.7 11.2	12.7	<u> </u>		
	Declared Capacity	at reference design temperature	_	11.2	11.2			
		at bivalent temperature	kW	9.4	9.4			
	Back Up Heating Cap	at operation limit temperature	kW	1.5	9.4	-		
	Annual Electricity Consumption*2		kWh/a	4664	4664			
	SCOP		KVVII/a	3.8	3.8			
	Energy Efficiency Class			3.8 A	3.8 A			
noratin	g Current (max)	Ellergy Elliciency Class	А	37.7	15.7	15.8		
door		nal Rated	kW	0.25 (0.23) / 0.23	0.25 (0.23) / 0.23	0.36 (0.34) / 0.34		
nit	Input [Cooling / Heating] Rated Operating Current (max)		A	2.65	2.65	2.76		
	Dimensions	H × W × D	mm	2.00	250 - 1400 - 732	2.70		
	Weight	II X W X B	kg	41 (40)	41 (40)	43 (42)		
	Air Volume [Lo-Mid-H	li1	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		dB(A)	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40		
	Sound Level (PWL)		dB(A)	61	61	65		
utdoor	Dimensions	H×W×D	mm		1350 - 950 - 330 (+30)			
nit	Weight	1	kg	120	134	134		
	Air Volume	Cooling	m³/min	100.0	100.0	100.0		
		Heating	m³/min	100.0	100.0	100.0		
	Sound Level (SPL)	Cooling	dB(A)	51	51	51		
		Heating	dB(A)	52	52	52		
	Sound Level (PWL)	Cooling	dB(A)	69	69	69		
	Operating Current (n		Α	35.0	13.0	13.0		
	Breaker Size		A	40	16	16		
xt.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88		
iping	Max. Length	Out-In	m	75	75	75		
	Max. Height	Out-In	m	30	30	30		
Juarante	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46		
[Outdoor]		Heating	°C	-25 ~ +21	-25 ~ +21	-25 ~ +21		

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



Гуре				Inverter He	eat Pump
ndoor Ur	nit			PKA-M10	00KA(L)
Outdoor	Unit			PUHZ-SHW112VHA(-BS)	PUHZ-SHW112YHA(-BS)
lefrigera	nt			R410	A*1
ower	Source			Outdoor pov	ver supply
Supply	Outdoor (V/Phase/H	lz)		VHA:230 / Single / 50,	YHA:400 / Three / 50
Cooling	Capacity	Rated	kW	10.0	10.0
,		Min - Max	kW	4.9 - 11.4	4.9 - 11.4
	Total Input	Rated	kW	2.924	2.924
	Design Load	1	kW	10.0	10.0
	Annual Electricity Co	onsumption*2	kWh/a	673	673
	SEER			5.2	5.2
		Energy Efficiency Class		A	A
eating	Capacity	Rated	kW	11.2	11.2
verage		Min - Max	kW	4.5 - 14.0	4.5 - 14.0
eason)	Total Input	Rated	kW	3.103	3.103
	Design Load	nated	kW	12.7	12.7
	Declared Capacity	at reference design temperature	kW	11.2	11.2
	Decial Eu Capacity	at bivalent temperature	kW	11.2	11.2
		at operation limit temperature	kW	9.4	
	Back Up Heating Cap		kW	-	9.4
		Annual Electricity Consumption*2 kWh/a		1.5	1.5
	SCOP KVVIVA			4664	4664
	SCOP			3.8	3.8
		Energy Efficiency Class		A	A
	g Current (max)	T	Α	35.6	13.6
door nit	Input	Rated	kW	0.08	0.08
ш	Operating Current (r		A mm	0.57 0.57	
		Dimensions <panel> H × W × D</panel>		365 - 117	
		Weight <panel></panel>		21	21
	Air Volume [Lo-Mid-F		m³/min	20 - 23 - 26	20 - 23 - 26
	Sound Level (SPL) [L	.o-Mid-Hi]	dB(A)	41 - 45 - 49	41 - 45 - 49
	Sound Level (PWL)		dB(A)	65	65
utdoor		$H \times W \times D$	mm	1350 - 950 -	
nit	Weight		kg	120	134
	Air Volume	Cooling	m³/min	100.0	100.0
		Heating	m³/min	100.0	100.0
	Sound Level (SPL)	Cooling	dB(A)	51	51
		Heating	dB(A)	52	52
	Sound Level (PWL)	Cooling	dB(A)	69	69
	Operating Current (r	nax)	Α	35.0	13.0
	Breaker Size		Α	40	16
ĸt.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88
iping	Max. Length	Out-In	m	75	75
	Max. Height	Out-In	m	30	30
iuarante	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46
Outdoor		Heating	°C	-25 ~ +21	-25 ~ +21

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

117

MXZ-VAHZ SERIES

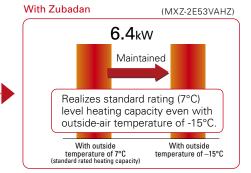
New hyper-heating MXZ allows you to create an oasis of comfort throughout your home and office in the rooms you use most, any time of the year.



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

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

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



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

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

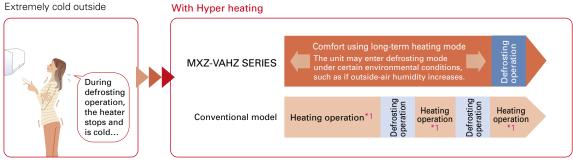
Freeze-prevention heater standard equipment

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



Continuous heating for long periods

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

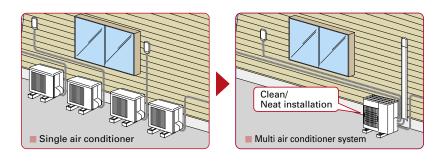


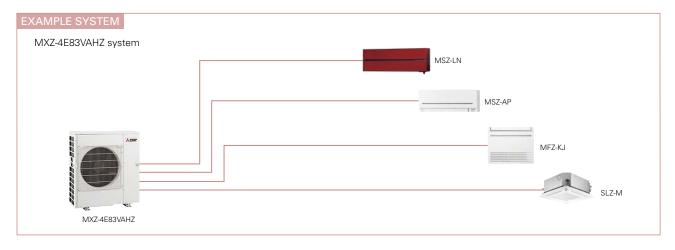
^{*1:} Conventional model performs continuous heating approximately 30min up to a maximum of 90min.

One outdoor unit supports multiple indoor units.

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

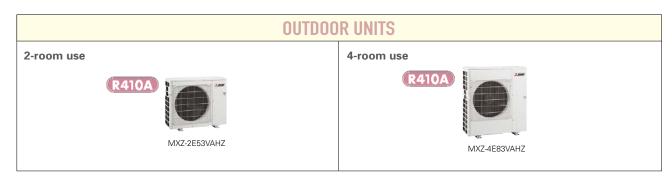
*Please note that cooling and heating modes cannot be run simultaneously in different rooms.





Freedom of combinations in cold region greatly enhanced

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





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

MXZ-VAHZ SERIES













Outdoor Unit





MXZ-2E53VAHZ



MXZ-4E83VAHZ

Туре				Inverter F	leat Pump
Indoor Unit Outdoor Unit				Please re	rfer to*4 *5
Outdoor l	Jnit			MXZ-2E53VAHZ	MXZ-4E83VAHZ
Refrigerant				R41	0A*1
Power	Source			Outdoor po	ower supply
Supply	Outdoor (V/Phase/H	z)		220 - 230 - 24	0V / Single / 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		kW	5.3	8.3
	Annual Electricity Co	onsumption*2	kWh/a	282	447
	SEER*4	•		6.5	6.5
		Energy Efficiency Class*4		A++	A++
leating	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
		Min - Max	kW	1.0 - 7.0	3.5 - 11.6
	Total Input	Rated	kW	1.36	1.90
	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 Capacity		kW	0.0	1.1
	Annual Electricity Co	•	kWh/a	2165	3446
	SCOP		Krrija	4.1	4.1
		Energy Efficiency Class*4		A+	A+
/lax. Ope	erating Current (Indoo		Α	15.6	28.0
Outdoor	Dimensions	lH × W × D	mm	796 × 950 × 330	1048 × 950 × 330
nit	Weight		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		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		m	30	70
	Each Indoor Unit Pip		m	20	25
	Max. Height	(m	15 (10) * ³	15 (10) *3
	Chargeless Length		m	20	25
Juarantee	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46
uiuiitet	a speruting numbe	Heating	℃	-10 ~ +40 -25 ~ +24	-10 ~ +40 -25 ~ +24

^{**}Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

*2 Energy consumption based on standard test results.

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

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

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

MXZ-2ES3WAHZ MSZ-EF18VE + MSZ-EF3VE

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

*5 Indoor unit compatibility table is shown on page 102.

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

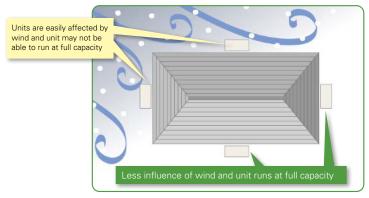
Wind and snow can significantly reduce capacity.

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.

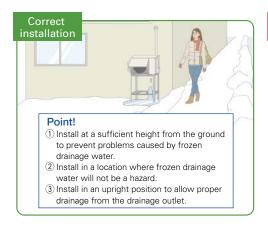


2

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.

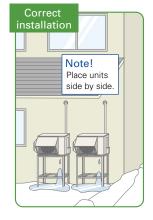


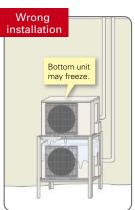




Case 2: Multiple units are installed

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

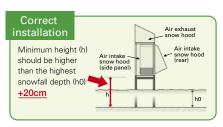
To avoid the adverse effects of snow and frozen drainage water, install the unit on a stand to ensure a sufficient height from the ground.

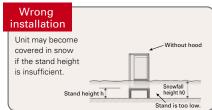






Use a stand to add sufficient height to protect the unit heat exchanger from snow and prevent icicles forming during defrost operation.





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.













"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!

INDOOR UNIT OUTDOOR UNIT Hydro box, cylinder unit Small capacity Medium capacity (7.5kW-14kW)* Large capacity (≧16kW)* **Packaged type** (Under 5kW)* ZUBADAN ecodon PUHZ-HW112/140 Coming soon Small capacity (Under 5kW)* Medium capacity (7.5kW-14kW)* Large capacity (≥16kW)* Split type ZUBADAN PUHZ-SHW80/112AA PUHZ-SHW80/112/140 Reversible hydro box, Reversible cylinder unit PUHZ-SW75/100AA PUHZ-SW100/120 PUHZ-SW160/200 ecodon **Eco** Inverter Small capacity (Under 5kW)* Medium capacity (7.5kW-14kW)* Large capacity (≥16kW)* Mr.SLIM+ PUHZ-FRP71 **PUMY** + ecodan

PUMY-P112/125/140

^{*}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 came into effect from September 26, 2015.

New energy label and measurements

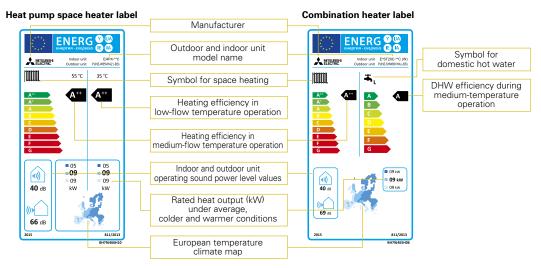
Under directive 2009/125/EC, ATW heat pumps of up to 70kW are required to show their heating efficiency on the energy label. The purpose of the energy label is to inform customers about the energy efficiency of a heating unit. The efficiency for space heating is ranked from A++ to G. In the case of domestic 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++ for heating at both 55°C and 35°C and A for domestic hot water, which are the highest efficiency ranks.

*Except for our ATA/ATW hybrid system Mr. SLIM+

Product label

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



These labels are delivered with all ecodan outdoor units

What is the package label?

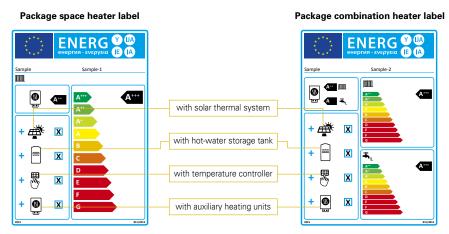
A heating system can use several energy-related products, such as a controller or solar thermal system. Therefore, a label showing the efficiency of the total heating system is required. The category range is defined from A⁺⁺⁺ to G.

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

erp.mitsubishielectric.eu/erp/options

Package label

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



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

Designed for Optimal Heating

ZUBADAN New Generation (Split type)

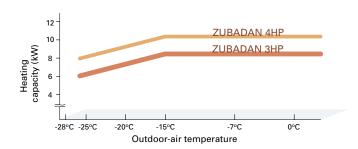
Even at the very low ambient temperatures, our ZUBADAN can provide powerful heating.

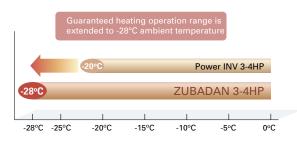


- Our unique flash injection circuit enables the nominal capacity to be maintained down to -15°C.
- The guaranteed operating range of the heating mode is extended down to -28°C.

Improved Heating Performance

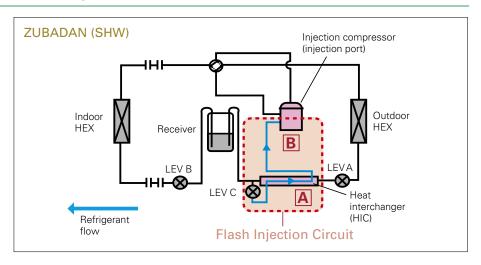
Mitsubishi Electric's unique "Flash Injection" circuit achieves remarkably high heating performance. This technology has resulted in an excellent heating capacity rating in outdoor temperatures as low as -15°C, and the guaranteed heating operation range of the heating mode has been extended to -28°C. Accordingly, the heat-pump units of the ZUBADAN Series are perfect for warming homes in the coldest regions.





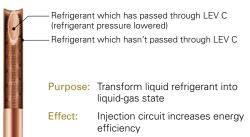
Mitsubishi Electric's Flash Injection Technology The Key to High Heating Performance at Low Outdoor Temperatures

■ Flash Injection Circuit

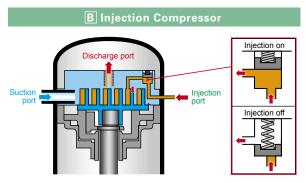


A Heat Interchanger (HIC)

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.



Purpose: To increase the volume of refrigerant being circulated

Effect: Improves heating capacity at low outdoor temperatures, and enables higher 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.

Dedicated Heat Pump for Residence

PUHZ-SW75V/YAA SW100V/YAA SHW80V/YAA SHW112V/YAA

Stylish and compact

The stylish design and compact size harmonises residential application

- Simple and elegant design by rounding left and right corners of the unit.
- Concealing the fan by matching the panel and the grille in dark colour.
- Unified shape and safety by setting the fan whole backwards and matching the grille on the same level of the front panel.

1,020mm

reddot award 2018

High performance

New compressor



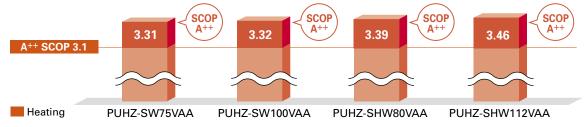
- Compact
- High performance

* for PUHZ-SW100V/YAA PUHZ-SHW80V/YAA PUHZ-SHW112V/YAA



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

Powerful heating yet annually high energy efficiency, achieving rank A++.



Higher reliability

New base design

Improving drainage

- Optimising the base structure to improve drainage.
- A slope of the base achieves smooth and faster drainage.

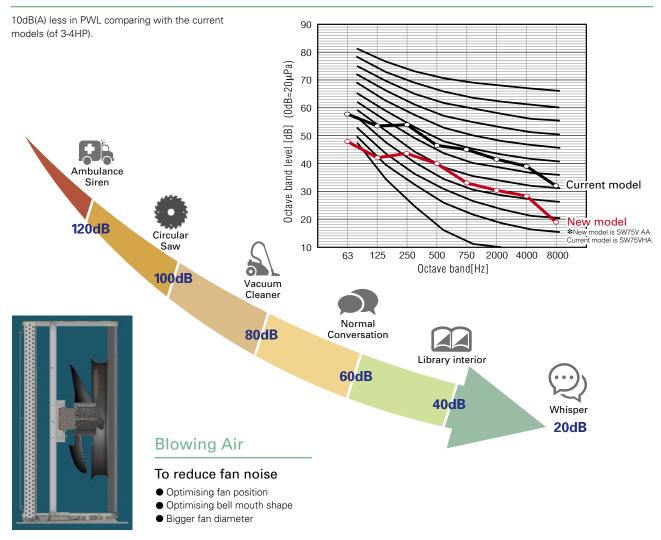


Optimizing defrost control and operation.

Optimizing outdoor unit heat exchanger to avoid ice-forming.

Compact but low noise

Noise reduction-10dB(A)



Enclosing noise

Shutting out noise from compressor

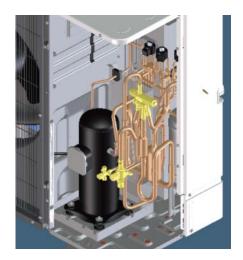
• The structure of double enclosing

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



Avoiding vibration and resonance

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

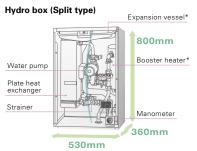


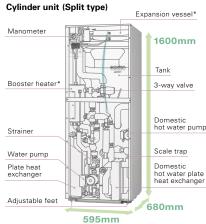
Indoor units

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 530×360mm footprint
- Easy installation: Factory fitted pressure relief valve
- Easy service: Relevant parts are located at the front of the unit for easy maintenance
- Easy transport: Handles attached on front and back (cylinder unit)





*Depending on model

Larger capacity system



Outdoor units

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 reach 60°C maximum flow temperature. The new 8–10HP hydro box is available in both heating only and reversible models and can be connected to a customised capacity domestic hot water tank.

Line-up

ecodan's line-up has many types of indoor units to satisfy diverse customers' needs, requests and local regulations.

It includes smaller capacity units, with/without booster heater, with/without an expansion vessel, etc.

In addition, a reversible hydro box and a reversible cylinder unit are available.

Hydro box



Cylinder unit



Available options

- Packaged or Split type
- With/without booster heater
- With/without expansion vessel
- Cylinder unit has an integrated 200L stainless steel tank
- Hydro box is control ready for domestic hot water with a stand-alone tank (locally supplied)

Reversible models (for heating/cooling)

Perfect comfort in winter and summer time, thanks to our reversible models.

Reversible models are now available for both hydro box and cylinder units (Split type only).

The new reversible cylinder is now able to produce cold water for cooling use and can alternatively produce domestic hot water in summer time.

Reversible hydro box



Reversible cylinder unit



*Reversible cylinder requires the installation of the drain pan stand PAC-DP01-E.

High-performance for domestic hot water re-charge

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.

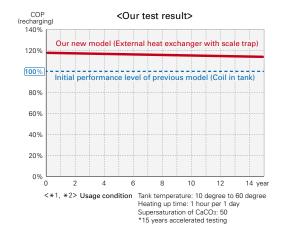
Avoid performance loss due to scale

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*²).

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.



Optimised stratification for better comfort

Thanks to the L-shaped inlet pipe from the plate heat exchanger, stratification is well maintained after re-charge.

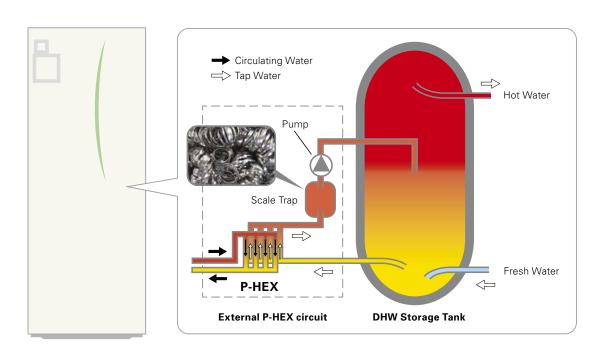
You do not need to worry about running out of hot water the same as with a conventional coil in tank.

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 special localished conditions such as very hard tap water, please consult a specialist before installation.



Unique technology of ecodan

Auto Adaptation

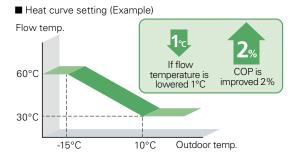
Maximize energy savings while retaining comfort at all times



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

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

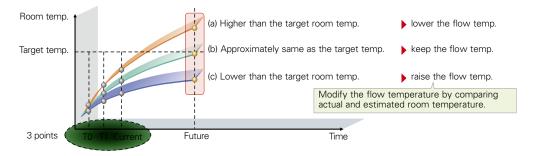
In a conventional system controller, the flow temperature is determined based on the pre-set heat curve depending on the actual outdoor temperature. However, this requires a complicated setting to achieve the optimal heat curve.



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



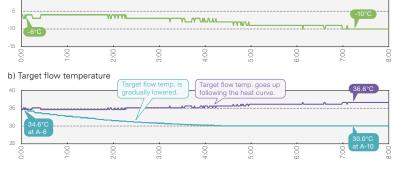
Auto Adaptation – room temperature control

- 1. Installation site: Southern Sweden
- 2. Detached house with underfloor heating
- 3. Data in February 2011

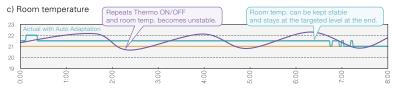


[Example]

a) Outdoor temperature is gradually decreasing...



By Auto Adaptation, flow temperature can be lowered even when outdoor temp. is decreasing.



By Auto Adaptation, flow temperature can be lowered without sacrificing comfort.



Settings can be performed using an SD card.

2 zone control (for heating/cooling)

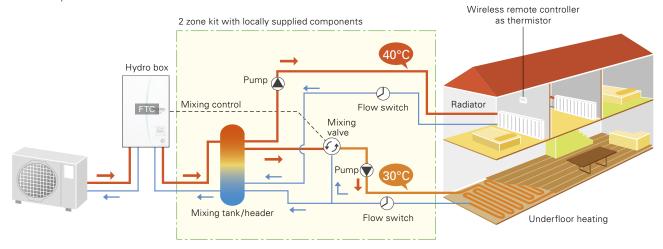
Simultaneously control two different zones

*SD logo is a tradema of SD-3C_LLC

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 2 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.

■ Two temperature zones



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

2 zone kit

With optional parts





2 zone kit Manual air vent Header Mixing valve Pump 255mm

Hydro box connection ecodon Armer ecodon Armer



Easy to install and low maintenance

- All-in-one kit: Key functional components are incorporated in 2 zone kit.
- Easy installation: G1 screw type flexi piping to avoid brazing.
- Compact size: Just to fit on the top of cylinder unit, also wall mountable.



Intelligent hybrid control (boiler interlock)

An existing boiler can be used for extra heating capacity in an efficient way

SD logo is a tradema

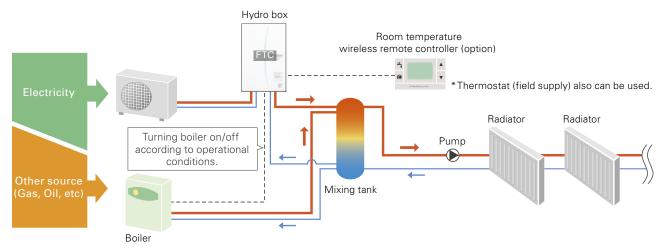
The flexibility of ecodan's intelligent control allows the system to be combined with the boiler currently in use. Additionally, this control can judge which heating source to use either ecodan or the existing boiler, based on various conditions*.

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

*Please see below "Heat source switchover".

Intelligent system combining a boiler with ecodan

■ Intelligent boiler interlock system



^{*} Items such as a mixing tank, and pump are not included and need to be purchased locally.

Heat source switchover - Choose appropriate system based on needs

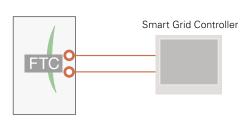
4 types of heat source switchover logic

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

Smart Grid Ready function

In recent years renewable energy generation has become popular. However, this rapid growing causes the problem of supply and demand gap of electricity. The aim of "SG Ready" is to make the electricity demand response more flexible by creating a uniform interface for the smart grid integration of heat pumps. Air-to-Water units need to be able to change the operation pattern when the signal is received from the Smart Grid Controller.

New ecodan Cylinder, Hydro box and FTC have been modified to communicate with Smart Grid Controller. The communication protocol is based on "SG Ready" label regulation. (Version 1.1; gültig ab 01.01.2013)



Pattern	Input 1	Input 2	Operation	
1	OFF	OFF	Normal operation	
2	ON	OFF	Switch ON recommendation	
3	OFF	ON	Switch OFF command	SG
4	ON	ON	Switch ON command	

Pattern 1: Normal operation

When there is no signal from the Smart Grid Controller, DHW and Heating operate according to user settings.

Pattern 2: Switch ON recommendation

When set to the "Switch ON" recommendation, the target temperature of DHW is increased a specified amount and the heating "Thermo ON" condition range is extended.

Pattern 3: Switch OFF command

When the "Switch OFF" command is received, both DHW and Heating are turned off.

Pattern 4: Switch ON command

When the "Switch ON" command is received, the target temperature of DHW is increased to the maximum target temperature and Heating continues.

Multiple unit control



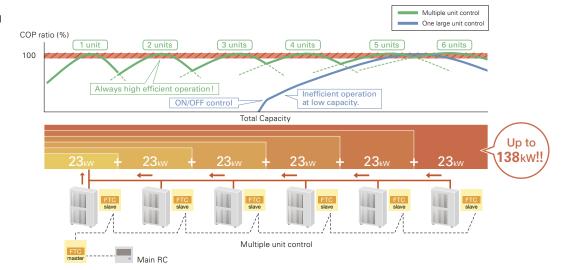
Connect up to 6 units – Automatic control of multiple units for bigger capacity and better efficiency

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

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

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

■ Multiple unit control



Remote controllers

Smart user-friendly controller with stylish design

Main remote controller

- Large screen and backlight for excellent visibility, even in dark environment
- Multi-language support (supports 15 languages)
- Can be removed from main unit and installed in a remote location (up to 500m)
- Quick reading of operation data (7.5 times faster than previous model)
- Wide range of convenient functions in response to user demand Function settings
 - Energy monitoring
 - Two-zone control (cooling and heating)
 - Two separate schedules
 - Summer time setting
 - Built-in room temperature sensors
 - Hybrid control (boiler interlock)
- Floor drying mode
- Weekly timer
- Holiday mode
- Legionella prevention
- Error codes



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

View electricity consumption and heat output on the remote controller

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

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

Other features

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

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

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

Summer time setting

Easy adjustment for summer time



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

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





Two separate schedules

Pre-setting two different schedules for winter and summer seasons

Settings can be 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.

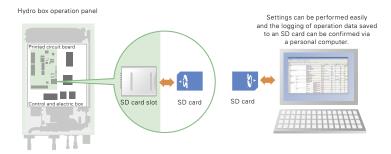
*SD logo is a trademark of SD-3C, LLC

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

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

Split type specifications

Indoor unit

<cylind< th=""><th>ler unit</th><th>></th><th></th><th></th><th></th><th>S</th><th>mall capaci</th><th>ty</th><th></th><th></th><th></th><th></th><th>Medium</th><th>capacity</th><th></th><th></th><th></th><th>UK r</th><th>nodel</th></cylind<>	ler unit	>				S	mall capaci	ty					Medium	capacity				UK r	nodel
Model n	name				EHST20D- VM2C	EHST20D- YM9C	EHST20D- VM2EC	EHST20D- MHC	EHST20D- MEC	EHST20C- VM2C	EHST20C- VM6C	EHST20C- YM9C	EHST20C- TM9C	EHST20C- VM2EC	EHST20C- VM6EC	EHST20C- YM9EC	EHST20C- MEC	EHST20C- MHCW	EHST20D MHCW
		Тур	ie								Η.	leating onl	у						
		Imn	nersion heater		-	-	-	×	-	-	-	-	-	-	-	-	-	×	×
		Exp	ansion vessel		×	×	-	×	-	×	×	×	×	-	-	-	-	×	×
		Boo	ster heater		×	×	×	-	-	×	×	×	×	×	×	×	-	-	-
Dimens	ions	H×V	V×D	mm							16	600×595×6	30						
Weight	(empty)			kg	103	105	97	103	96	110	111	112	112	104	105	106	103	110	103
Power s	upply (V	//Phase/H	łz)						•		2	230/Single/50				•		•	
Heater	Booste		ver supply (V/Phase/	Hz)	230/Single/50	400/Three/50	230/Single/50		-	230/Si			230/Three/50	230/Si	ngle/50	400/Three/50		-	
	heater	Cap	acity	kW	2	9 (3/6/9)	2	-		2	6 (2/4/6)	9 (3/6/9)	9 (3/6/9)	2	6 (2/4/6)	9 (3/6/9)		-	
	Current Breaker size		Α	9	13	9	-		9	26	13	23	9	26	13		-		
		Bre	aker size	Α	16	16	16		-	16	32	16	32	16	32	16		-	
	Immer		ver supply (V/Phase/	Hz)		-		230/Single/50					-					230/Si	ingle/50
	heater	Cap	acity	kW		-			-									3	
		Cur	Current A			-		13					-					1	13
		Bre	aker size	Α		- 16 -								1	16				
Domest hot water		Volume /	Material	L/-							200	/ Stainless	steel						
Guarant		Ambient		°C								0~35*1							
operatir range*1		Outdoor	Heating	°C							See outo	door unit s	pec table						
range			Cooling	°C								-							
Target		Heating	Room temperature	°C								10~30							
tempera range	ature		Flow temperature	°C								25~60							
rungo		Cooling	Room temperature	°C								-							
			Flow temperature	°C	-														
		DHW		°C	40~60														
		Legionell	a prevention	°C	60~70														
Sound p	oressure	level (SPL	_)	dB (A)								28							

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

<hydro< th=""><th>box></th><th></th><th></th><th></th><th></th><th>Small</th><th>capacity</th><th></th><th></th><th></th><th></th><th>Medium</th><th>capacity</th><th></th><th></th><th></th><th>Large</th><th>capacity</th></hydro<>	box>					Small	capacity					Medium	capacity				Large	capacity
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
		Typ	е								Heatin	g only						
		lmr	mersion heater		-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Exp	pansion vessel		-	×	×	×	-	×	-	×	-	×	-	×	-	-
		Boo	oster heater		-	-	×	×	-	×	×	×	×	×	×	×	-	×
Dimens	ions	H×\	N×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	upply (V	//Phase/H	łz)								230/Sir	ngle/50						
Heater	Booste		ver supply (V/Phase/	Hz)	-	230/Single/50 400/Three/50 - 230/Single/50 400/Three/50 230/Three				230/Three/50	-	400/Three/50						
	heater	Cap	pacity	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		Ambient		°C						•	0~:	35*1		•	•			
operatir range*1		Outdoor	Heating	°C						Se	e outdoor u	ınit spec ta	ble					
range .			Cooling	°C								-						
Target		Heating	Room temperature	°C	10~30													
tempera range	ture		Flow temperature	°C							25-	-60						
range	Ī	Cooling	Room temperature	°C							-	-						
			Flow temperature	°C								-						
Sound p	ressure	level (SPI	_)	dB (A)						2	8						:	30

<revers< th=""><th>sible c</th><th>ylınde</th><th>er u</th><th>nit></th><th></th><th>Small c</th><th>apacity</th><th>Medium</th><th>capacity</th></revers<>	sible c	ylınde	er u	nit>		Small c	apacity	Medium	capacity
Model n	ame					ERST20D- VM2C	ERST20D- MEC	ERST20C- VM2C	ERST20C MEC
			Тур	e			Heating ar	nd cooling	
		Ī	lmn	nersion heater		-	-	-	-
			Exp	ansion vessel		×	-	×	-
			Boo	ster heater		×	-	×	-
Dimensi	ons		H×V	V×D	mm		1600×5	95×680	
Weight (empty)	•			kg	103	96	110	103
Power s	upply (\	//Phas	se/H	z)			230/Sir	gle/50	
Heater	Boost		Pov	er supply (V/Phase/	Hz)	230/Single/50	-	230/Single/50	-
	heate		Cap	acity	kW	W 2 -		2	-
	Current Breaker size					9	-	9	-
	Breaker size					16	-	16	-
	Imme		Pov	er supply (V/Phase/	Hz)	-	-	-	-
	heate		Cap	acity	kW	-	-	-	-
			Cur	rent	Α	-	-	-	-
			Bre	aker size	Α	-	-	-	-
Domesti hot wate		Volur	ne/	Material	L/-	200 / Stainless steel			
Guarant		Amb	ient		°C		0~3	5*1	
operatin range*1	g	Outd	oor	Heating	°C	See	outdoor u	nit spec ta	ble
range .				Cooling	°C	See outdoo	r unit spec t	able (minimu	ım 10°C*2)
Target		Heati	ng	Room temperature	°C		10~	-30	
tempera range	ture			Flow temperature	°C		25~	-60	
range		Cooli	ng	Room temperature	°C		-		
	Flow temperature				°C		5~2	25	
DHW					°C		40~	-60	
		Legic	nell	a prevention	°C		60~	70	
Sound p	ressure	level	(SPL)	dB (A)		2	8	

*1	The	indoor	environment	must	be	frost-free

^{*21} fryou 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.

<revers< th=""><th>sible h</th><th>ydro b</th><th>0X></th><th></th><th>Small capacity</th><th>Medium</th><th>capacity</th><th>Large o</th><th>apacity</th></revers<>	sible h	ydro b	0X>		Small capacity	Medium	capacity	Large o	apacity
Model n	ame				ERSD- VM2C	ERSC- MEC	ERSC- VM2C	ERSE- MEC	ERSE- YM9EC
		1	уре			Heat	ing and co	oling	
		1	mmersion heater		-	-	-	-	-
		E	xpansion vessel		×	-	×	-	-
		E	looster heater		× - ×			- ×	
Dimensi	ons	F	l×W×D	mm	800×530×360 950×600				00×360
Weight (empty)			kg	45	43	49	61	63
Power s	upply (\	//Phase	/Hz)		230/Sing			0	
Heater	Boost		ower supply (V/Phase	/Hz)	230/Single/50	-	230/Single/50	-	400/Three/50
	heater		Capacity	kW	2	- 2		-	9 (3/6/9)
		(Current	Α	9	-	9	-	13
		E	reaker size	Α	16	-	16	-	16
Guarant		Ambie	nt	°C			0~35*1		
operatin range*1	g	Outdo	or Heating	°C		See outo	door unit sp	ec table	
range			Cooling	°C	See ou	tdoor unit	spec table (ı	minimum 1	10°C*2)
Target		Heatin	g Room temperature	°C			10~30		
tempera range	ture		Flow temperature	°C			25~60		
range		Coolin	g Room temperature	°C			-		
			Flow temperature	°C	5~25				
Sound p	ressure	level (S	PL)	dB (A)		28		3	80

^{*1} 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 nam	e		Eco Inverter				Power Inverter				
			SUHZ- SW45VA (H)*1	PUHZ- SW50VKA (-BS)	PUHZ- SW75V/YAA (-BS)	PUHZ- SW100V/YAA (-BS)	PUHZ- SW75VHA (-BS)	PUHZ- SW100V/YHA (-BS)	PUHZ- SW120V/YHA (-BS)	PUHZ- SW160YKA (-BS)	PUHZ- SW200YKA (-BS)
Dimensions	H×W×D	mm	880×840×330	630×809×300	1020×1050×480	1020×1050×480	943×950×330	1350×950×330	1350×950×330	1338×1050×330	1338×1050×330
Product wei	ight (empty)	kg	54	43	92/104	114/126	75	118/130	118/130	136	136
Power supp	ly (V / Phase / Hz)					VHA: 230/Sing	gle/50 YHA, YKA	: 400/Three/50			
Heating	Capacity	kW	4.50	5.50	8.00	11.20	8.00	11.20	16.00	22.00	25.00
(A7/W35)	COP		5.06	4.42	4.40	4.46	4.40	4.45	4.10	4.20	4.00
	Power input	kW	0.889	1.244			1.818	2.517	3.902	5.238	6.250
Heating	Capacity	kW	3.50	5.00	7.50	10.00	7.50	10.00	12.00	16.00	20.00
(A2/W35)	COP		3.40/3.04	2.97	3.40	3.32	3.40	3.32	3.24	3.11	2.80
	Power input	kW	1.029/1.151	1.684			2.206	3.009	3.704	5.145	7.143
Cooling	Capacity	kW	4.00	4.50	7.10	10.00	6.60	9.10	12.50	16.00	20.00
(A35/W7)	EER		2.73	2.76	2.70	2.83	2.82	2.75	2.32	2.76	2.25
	Power input	kW	1.465	1.630			2.340	3.309	5.388	5.797	8.889
Cooling	Capacity	kW	3.80	5.00	7.10	10.00	7.10	10.00	14.00	18.00	22.00
(A35/W18)	EER		4.28	4.60	4.43	4.47	4.43	4.35	4.08	4.56	4.10
	Power input	kW	0.888	1.087			1.603	2.299	3.431	3.947	5.366
Sound pressure level (SPL)	Heating	dB (A)	52	46	43	47	51	54	54	62	62
Sound power level (PWL)	Heating	dB (A)	61	63	58	60	68	70	72	78	78
Operating c	urrent (max)	Α	12.0	13.0	22.0/11.5	28.0/12.0	17.0	29.5/13.0	29.5/13.0	19.0	21.0
Breaker size	•	Α	20	16	25.0/16.0	32.0/16.0	25	32/16	32/16	25	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	9.52/15.88	9.52/15.88	9.52/25.4	12.7/25.4
	Max. length Out-In	m	30	40	40	75	40	75	75	80	80
	Max. height Out-In	m	30	30	10	10	30	30	30	30	30
Guaranteed	Heating	°C	-15 to +24	-15 to +21	-20 to +24	-20 to +24	-20 to +21	-20 to +21	-20 to +21	-20 to +21	-20 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	-20 to +35	-20 to +35
. 31190	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

					ZUB	ADAN		
Model name	e		PUHZ- SHW80V/YAA (-BS)	PUHZ- SHW112V/YAA (-BS)	PUHZ- SHW80VHA	PUHZ- SHW112V/YHA	PUHZ- SHW140YHA	PUHZ- SHW230YKA2
Dimensions	H×W×D	mm	1020×1050×480	1020×1050×480	1350×950×330	1350×950×330	1350×950×330	1338×1050×330
Product wei	ght (empty)	kg	116/128	116/128	120	120/134	134	149
Power supp	ly (V / Phase / Hz)			VHA	: 230/Single/50	/HA, YKA : 400/Thre	ee/50	•
Heating	Capacity	kW	8.00	11.20	8.00	11.20	14.00	23.00
(A7/W35)	COP		4.65	4.40	4.65	4.46	4.22	3.65
	Power input	kW			1.720	2.511	3.318	6.301
Heating	Capacity	kW	8.00	11.20	8.00	11.20	14.00	23.00
(A2/W35)	COP		3.55	3.22	3.55	3.34	2.96	2.37
	Power input	kW			2.254	3.353	4.730	9.705
Cooling	Capacity	kW	7.10	10.00	7.10	10.00	12.50	20.00
(A35/W7)	EER		3.31	2.83	3.31	2.83	2.17	2.22
	Power input	kW			2.145	3.534	5.760	9.009
Cooling	Capacity	kW	7.10	10.00	7.10	10.00	12.50	20.00
(A35/W18)	EER		4.52	4.74	4.52	4.74	4.26	3.55
	Power input	kW			1.571	2.110	2.934	5.634
Sound pressure level (SPL)	Heating	dB (A)	45	47	51	52	52	59
Sound power level (PWL)	Heating	dB (A)	59	60	69	70	70	75
Operating c	urrent (max)	Α	22.0/13.0	28.0/13.0	29.5	35.0/13.0	13.0	26.0
Breaker size	•	Α	25.0/16.0	32.0/16.0	32	40/16	16	32
Piping	Diameter Liquid/Gas	mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	12.7/25.4
	Max. length Out-In	m	75	75	75	75	75	80
	Max. height Out-In	m	30	30	30	30	30	30
Guaranteed	Heating	°C	-28 to +24	-28 to +24	-28 to +21	-28 to +21	-28 to +21	-25 to +21
operating range	DHW	°C	-28 to +35	-28 to +35	-28 to +35	-28 to +35	-28 to +35	-25 to +35
.ugo	Cooling*2	°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 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.

Split type	Small capacity (Under 5kW)*	Medium capacity (7.5kW–14kW)*	Large capacity (≧16kW)*
ZUBADAN New Generation		PUHZ:SHW80/112/AA PUHZ:SHW80/112/140	PUHZ-SHW230
	 	PUHZ-SHW80/112AA PUHZ-SHW80/112/140	PUHZ-SHW230
POWER INVERTER		NEW CARE NO AMERICAN CONTRACTOR OF THE CONTRACTO	
	PUHZ-SW50	PUHZ-SW75 PUHZ-SW75/100AA PUHZ-SW100/120	PUHZ-SW160/200
Eco Inverter	0		
1	SUHZ-SW45		1

Packaged type specifications

Indoor unit

♦WRAS <Cylinder unit>

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

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

<Hydro box>

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)	1		kg	37	38	38
Power supply (V/Phase/Hz)			230/Single/50	
Heater	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	e level (SPL)	•	dB (A)		28	

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

Outdoor u	nit							
-				Power Inverter			ZUBADAN	
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	ing Capacity		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 curre	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.

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





Packaged type



Small capacity (Under 5kW)*





Optional Parts

Split type <Indoor unit>

Parts name	Model name	Specification								Cylind	er unit								Hydro I	oox
			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 models
Wirelss remote controller	PAR-WT50R-E		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Wirelss receiver	PAR-WR51R-E		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Thermistors	PAC-SE41TS-E	For room temp.	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-TH011-E	For buffer and zone (flow and return temp.)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-TH011TK-E	For tank temp. (5m)	×	×	×	×	×	-	-	-	-	-	-	-	-	-	-	-	×	×
	PAC-TH011TKL-E	For tank temp. (30m)	×	×	×	×	×	-	-	-	-	-	-	-	-	-	-	-	×	×
	PAC-TH011HT-E	For boiler (flow and return temp.)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Immersion heater	PAC-IH03V2-E	1Ph 3kW	×	×	×	×	×	×	×	×	×	×	×	×	-	-	-	×	-	-
EHPT accessories for UK	PAC-WK01UK-E		-	-	-	-	-	-	-	-	-	-	-	-	-	×	×	1		-
Joint pipe	PAC-SG73RJ-E	For PUHZ-SW200YKA/ SHW230YKA2 (-BS) ø9.52 → ø12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ı	-	×
Wi-Fi interface	MAC-567IF-E		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Drain pan stand	PAC-DP01-E	D665mm H270mm W595mm N/W: 14.5kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	x*1	-	-
2 zone kit	PAC-TZ01-E		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	-

^{*1} 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.

Parts name	Model name	Eco Power Inverter									ZUBADAN					
		SUHZ- SW45VA(H)	PUHZ- SW50VKA(-BS)	PUHZ- SW75V/YAA(-BS)	PUHZ- SW100V/YAA(-BS)	PUHZ- SW75VHA(-BS)	PUHZ- SW100V/YHA(-BS	PUHZ- SW120V/YHA(-BS)	PUHZ- SW160YKA(-BS)	PUHZ- SW200YKA(-BS)	PUHZ- SHW80V/YAA(-BS)	PUHZ- SHW112V/YAA(-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-SG96SG-E	-	-	x*1	×*1	-	-	-	×	×	x*1	x*1	-	-	-	×
Air protection guide	PAC-SJ06AG-E	-	×	-	-	-	-	-	-	-	-	-	-	-	-	-
	PAC-SH63AG-E	-	-	-	-	×	×	×	-	-	-	-	×	×	×	-
	PAC-SH95AG-E	-	-	x*1	×*1	-	-	-	×	×	x*1	x*1	-	-	-	×
Attachment	PAC-SJ82AT-E	-	-	x*1	×*1	-	-	-	-	-	x*1	x*1				
Drain socket	PAC-SG61DS-E	-	-	×	×	×	×	×	×	×	×	×	-	-	-	-
	PAC-SJ08DS-E	-	×	-	-	-	-	-	-	-	-	-	-	-	-	-
Centralised drain pan	PAC-SG63DP-E	-	×	-	-	-	-	-	-	-	-	-	-	-	-	-
	PAC-SG64DP-E	-	-	-	-	×	×	×	-	-	-	-	-	-	-	-
	PAC-SH97DP-E	-	-	-	-	-	-	-	×	×	-	-	-	-	-	-
	PAC-SJ83DP-E	-	-	×	×	-	-	-	-	-	×	×				
Control/Service tool	PAC-SK52ST	-	×	×	×	×	×	×	×	×	×	×	×	×	×	×

Package type <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-IH03V2-E	1Ph 3kW	×	×	×	×	-	-	-	-		
EHPT accessories for UK	PAC-WK01UK-E		-			-	×	-		-		
Wi-Fi interface	MAC-567IF-E		×	×	×	×	×	×	×	×		
2 zone kit	PAC-TZ01-E		×	×	×	×	×	×	×	×		

<Outdoor unit>

Coutdoor 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-IF063B-E	1 PC Board w/ Case
	PAC-SIF051B-E	1 PC Board w/ Case

Note: SUHZ CANNOT be connected to these IFs.

^{*1} Attachment (PAC-SJ82AT-E) is necessary for the Air Guide.

Туре	Model name		P	ackage ty	ре					Split	type		
		P	ower Inve	ter	ZUBA	ADAN	Eco Inverter			Power I	nverter		
		PUHZ- W50VHA2	PUHZ- W85VHA2	PUHZ- W112VHA	PUHZ- HW112YHA2	PUHZ- HW140VHA2/ YHA2	SUHZ- SW45VA(H)	PUHZ- SW50VKA	PUHZ- SW75VAA	PUHZ- SW75YAA	PUHZ- SW100VAA	PUHZ- SW100YAA	PUHZ- SW75VHA
	EHST20C-VM2C										•	•	•
	EHST20C-VM6C										•	•	•
	EHST20C-YM9C										•	•	•
	EHST20C-TM9C										•	•	•
	EHST20C-VM2EC										•	•	•
	EHST20C-VM6EC										•	•	•
	EHST20C-YM9EC										•	•	•
	EHST20C-MEC										•	•	•
	EHST20C-MHCW										•	•	•
	EHST20D-VM2C						•	•	•	•			•
	EHST20D-MEC						•	•	•	•			•
O dia dan conte	EHST20D-MHC						•	•	•	•			•
Cylinder unit	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						•		•	•			•
	EHSD-MEC						•		•	•			•
Hydro box	EHSD-MC						•	•		•			
	ERSC-VM2C										•	•	•
	ERSC-MEC										•		•
	ERSD-VM2C						•	•	•	•			•
	EHPX-VM2C	•	•	•	•	•	_						
	EHPX-VM6C	•	•			•							
	EHPX-YM9C	•	•	•	•	•							
	EHSE-YM9EC												
	EHSE-MEC												
	ERSE-YM9EC												
	ERSE-MEC												

					Split t	уре						A	TA/ATW H	ybrid syst	em
	Power	Inverter					ZUBA	ADAN				Mr. SLIM+	PU	JMY+ecod	an
PUHZ- SW100VHA/ YHA	PUHZ- SW120VHA/ YHA	PUHZ- SW160YKA	PUHZ- SW200YKA	PUHZ- SHW80VAA	PUHZ- SHW80YAA	PUHZ- SHW112VAA	PUHZ- SHW112YAA	PUHZ- SHW80VHA	PUHZ- SHW112VHA/ YHA	PUHZ- SHW140YHA	PUHZ- SHW230YKA2	PUHZ- FRP71VHA2	PUMY- P112VKM4/ YKM(E)4	PUMY- P125VKM4/ YKM(E)4	PUMY- P140VKM4/ YKM(E)4
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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, the Mr. SLIM+ model can achieve a COP of 7.0*, resulting in intelligent systems with amazing efficiency.

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

1 unit, 2 roles – Total comfort year-round

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

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

Mr. SLIM for Air-to-Air

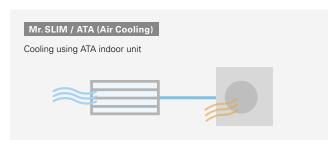
Mr. SLIM+ utilises a duct system that enables the air conditioning or heating of multiple rooms, and other indoor unit type systems that it is possible to fit to various applications.

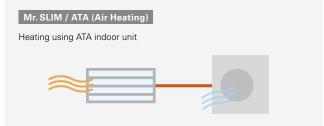
ecodan for Air-to-Water

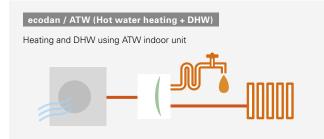
✓Domestic hot water (DHW) supply
✓Heating for multiple rooms



Various operations









Specifications

Indoor	unit				PLA-ZM71EA	PKA-M71KAL	PCA-M71KA	PSA-RP71KA	PEAD-M71JAQ	PEAD-M71JAL				
Outdoo					PUHZ-FRP71VHA2	PUHZ-FRP71VHA2		PUHZ-FRP71VHA2	PUHZ-FRP71VHA2	PUHZ-FRP71VH				
Refrige	rant					-	IR41	I						
Power :		Outdoor (V / P	hase / Hz)				230 / Sir	ngle / 50						
Air-to-Air	Cooling	Capacity	Rated kV		7.1									
ATA)			Min-Max		3.3-8.1	3.3-8.1	3.3-8.1	3.3-8.1	3.3-8.1	7.1 3.3-8.1				
		Total input	Rated	kW	1.88	1.93	1.93	2.15	2.10	2.04				
		EER Rated KW			3.77	3.67	3.67	3.30	3.38	3.48				
		Design load		kW	7.1	7.1	7.1	7.1	7.1	7.1				
			city consumption *1	kWh/a	376	386	384	409	444	427				
		SEER *3	only demounipation	KTT11,G	6.6	6.4	6.4	6.0	5.5	5.8				
		OLLIN .	Energy-efficiency class		A ⁺⁺	A ⁺⁺	A ⁺⁺	A ⁺	A.	A ⁺				
	Heating	Capacity	Rated	kW	8.0	8.0	8.0	8.0	8.0	8.0				
	(average	Сарасну	Min-Max	kW	3.5-10.2	3.5-10.2	3.5-10.2	3.5-10.2	3.5-10.2	3.5-10.2				
	season)	Total input	Rated	kW	2.11	2.29	2.29	2.42	2.11	2.11				
		Total input	nated	KVV										
		COP		114/	3.80	3.50	3.50	3.30	3.79	3.79				
		Design load		kW	4.7	4.7	4.7	4.7	4.9	4.9				
		Declared capacity	at reference design temperature	kW	4.7 (–10°C)	4.7 (–10°C)	4.7 (–10°C)	4.7 (–10°C)	4.9 (–10°C)	4.9 (-10°C)				
			at bivalent temperature	kW	4.7 (–10°C)	4.7 (-10°C)	4.7 (-10°C)	4.7 (–10°C)	4.9 (–10°C)	4.9 (-10°C)				
			at operation limit temperature	kW	3.5 (–20°C)	3.5 (-20°C)	3.5 (-20°C)	3.5 (–20°C)	3.7 (–20°C)	3.7 (–20°C)				
		l	ting capacity	kW	0	0	0	0	0	0				
		· · · · · · · · · · · · · · · · · · ·		kWh/a	1,509	1,564	1,556	1,699	1,791	1,791				
		SCOP *3			4.3	4.2	4.2	3.8	3.8	3.8				
			Energy-efficiency class		A ⁺	A ⁺	A ⁺	A	А	A				
r-to-Water	Nomina	I flow rate (for					22.	.90						
AI WW)	Heating *4	A7W35	Capacity	kW	8.00	8.00	8.00	8.00	8.00	8.00				
πw) [Input	kW	1.98	1.98	1.98	1.98	1.98	1.98				
			COP		4.05	4.05	4.05	4.05	4.05	4.05				
		A2W35	Capacity	kW	7.50	7.50	7.50	7.50	7.50	7.50				
			Input	kW	2.67	2.67	2.67	2.67	2.67	2.67				
			COP		2.81	2.81	2.81	2.81	2.81	2.81				
	Heat	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				
	recovery (ATA		Input	kW	1.90	1.93	1.95	2.02	2.15	2.13				
	cooling &		COP		7.95	7.82	7.74	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	7.1+9.0	7.1+9.0	7.1+9.0				
			Input	kW	2.97	3.00	3.02	3.09	3.22	3.20				
			COP		5.42	5.37	5.33	5.21	5.00	5.03				
	ATW inc	loor unit	ı		Cylinder unit or Hydro box (see previous page)									
Outdoo	r unit	Dimensions	HxWxD	mm										
		Weight		kg	73	73	73	73	73	73				
		Air volume	Cooling	m³/min	50	50	50	50	50	50				
			Heating	m³/min	50	50	50	50	50	50				
		Sound pressure	Cooling	dB(A)	47	47	47	47	47	47				
		level (SPL)	Heat recovery	dB(A)	47	47	47	47	47	47				
			ATA Heating	dB(A)	49	49	49	49	49	49				
			ATW Heating	dB(A)	49	49	49	49	49	49				
		Sound power	Cooling	dB(A)	67	67	67	67	67	67				
		level (PWL)	Heat recovery	dB(A)	67	67	67	67	67	67				
			ATA Heating	dB(A)	68	68	68	68	68	68				
			ATW Heating	dB(A)	68	68	68	68	68	68				
		Operation	_		19.0	19.0	19.0	19.0	19.0	19.0				
		<u> </u>	Operating current (max) A		25		25	25						
		Breaker size	Limital/Con	Α		25			25	25				
xt.pip	ing	Diameter	Liquid/Gas	mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88				
		Max. length	Out-In	m			30 (for ATA) +			_				
		Max. height	Out-In	m	20	20	20	20	20	20				
Guaran outdoo		rating range	Cooling *2	°C	-15~+46	-15~+46	-15~+46	-15~+46	-15~+46	–15∼+46				
	,		Heating	°C	-20~+21	-20~+21	-20~+21	−20 ~+21	-20~+21	-20~+21				
			ATW	°C	−20~+35	-20~+35	−20~+35	−20~+35	−20~+35	-20~+35				
			Heat recovery	°C	+7~+46	+7~+46	+7~+46	+7~+46	+7~+46	+7~+46				

^{*1} 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).

PUMY+ecodan

Air-to-Air and Air-to-Water hybrid multi split system

1 unit, 2 roles – Total comfort year-round

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

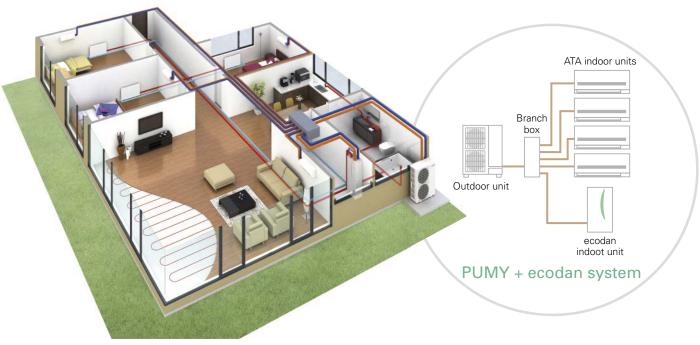
All-in-one outdoor unit (air conditioning, domestic hot water supply and hot water heating)

PUMY for Air-to-Air

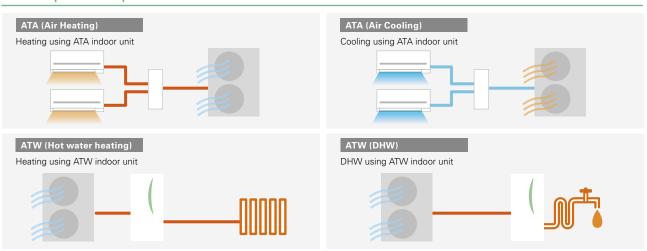
PUMY utilises various indoor units, enabling the air conditioning or heating of multiple rooms, and controls each unit individually.

ecodan for Air-to-Water

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



Main operation patterns



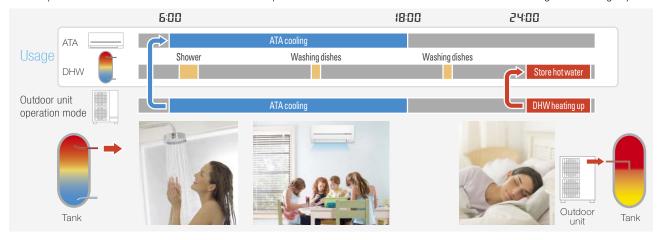
Optional operation patterns* (simultaneous)



Usage pattern All-in-one system solution

Summer 2-in-1 operation

In summer ATA cooling and DHW are utilized. Keep your room comfortable with ATA cooling during high temperature daytime. Heat pump operates to heat up water stored in the DHW tank when ATA is not operated. The hot water can be utilized for shower and washing dishes during daytime.



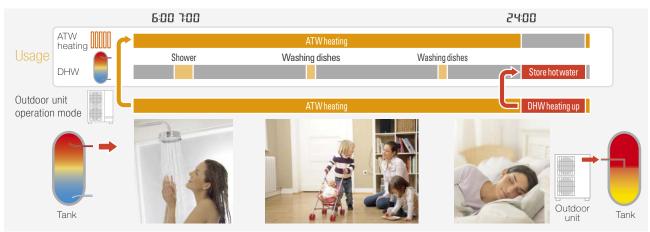
Spring & Autumn 2-in-1 operation

In spring and autumn, ATA heating and DHW are utilized. ATA heating can warm up each room quickly during the low temperature morning and evening. Heat pump operates to heat up water stored in the DHW tank when ATA is not operated. The hot water can be utilized for shower and washing dishes during daytime.



Winter ecodan

In winter ATW heating and DHW are utilized. ATW heating warms home all the day in severe cold weather. ATW heating stops temporarily only when the heat pump operates to heat up water stored in the DHW tank.



Model name						PUMY- P112VKM4(-BS)	PUMY- P125VKM4(-BS)	PUMY- P140VKM4(-BS)	PUMY- P112YKM(E)4(-BS)	PUMY- P125YKM(E)4(-BS)	PUMY- P140YKM(E)4(-BS)		
Power suppl	1						se 220 - 230 - 240	·		se 380 - 400 - 415\			
Air-to-Air	Cooling	Capacity			kW	12.5	14.0	15.5	12.5	14.0	15.5		
(ATA)	(nominal)*1	Power input			kW	2.79	3.46	4.52	2.79	3.46	4.52		
		EER				4.48	4.05	3.43	4.48	4.05	3.43		
	Temp. range of cooling	Indoor temp.			W.B.	15 - 24°C							
		Outdoor temp.	*2		D.B.				52°C				
	Heating (nominal)*1	Capacity			kW	14.0	16.0	18.0	14.0	16.0	18.0		
	(HOHIIIIai)	Power input			kW	3.04	3.74	4.47	3.04	3.74	4.47		
		СОР			14/5	4.61	4.28	4.03	4.61	4.28	4.03		
	Temp. range of heating	Indoor temp.			W.B.				27°C				
		Outdoor temp.			D.B.	-20 - 15°C							
Air-to-Water (ATW)		rate (for heatin	<u> </u>		L/min	35.8							
(ATVV)	Heating*3				kW				2.5				
			Power input		kW	3.06 4.08							
			СОР										
		A2W35	Capacity	kW				0.0					
			Power input COP		kW	3.50							
	Guaranteed	ATW			D.B.	2.86 -20 - +21°C							
	operating	AIW	Heating DHW		D.B.								
	range	ATA + ATW	ATA heating + DI	1) A /	D.B.	-20 - +35°C 7 - +21°C							
		AIA + AIW			D.B.								
	Maximum Ou	ATA heating + ATW heating Maximum Outlet water temp.			°C								
Outdoor	Indoor unit ATA Total capacity				-			50 to 130% of out					
unit	connectable	only	Model/	Branch box system		15-100/8	15-100/8	15-100/8	15-100/8	15-100/8	15-100/8		
			Quantity	Mixed system*12		15-140*5/10	15-140*5/10*6	15-140*5/10*6	15-140*5/10	15-140*5/10*6	15-140*5/10*6		
		ATA + ATW	Total capacity	mixed byotom			ATA : Max 130% of outdoor unit capacity + ATW (
		individual operation	Model/Quantity (including ATW)	Branch box system		15-100/8	15-100/8	15-100/8	15-100/8	15-100/8	15-100/8		
				Mixed system*12		15-140*5/10	15-140*5/10*6	15-140*5/10*6	15-140*5/10	15-140*5/10*6	15-140*5/10*6		
		ATA + ATW	Total capacity	mixed byotom						ST20C or EHSC) *			
		simultaneous	Model/Quantity	ATA*12		15/1*8	15-25/2*9	15-42*11/3*10	15/1*8	15-25/2*9	15-42*11/3*10		
		operation		ATW			10 20/2		C or EHSC) / 1	10 -0/-			
	Sound pressu	ire level (measi	red in anechoic ro	om)	dB <a>	49 / 51	50 / 52	51 / 53	49 / 51	50 / 52	51 / 53		
	Sound power	r level (measure	d in anechoic roor	n)	dB <a>	69 / 71	70 / 72	71 / 73	69 / 71	70 / 72	71 / 73		
	Refrigerant p	iping diameter		Liquid pipe	mm	·		9.52	flare				
	- '			Gas pipe	mm			15.88	flare				
	Fan	Type x Quantit	У					Propelle	r fan × 2				
		Airflow rate			m³/min			1	10				
					L/s			1,8	83				
					cfm			3,8	84				
		Motor output			kW			0.074	+ 0.074				
	Compressor	Type x Quantit	у					Scroll hermetic	compressor x 1				
		Starting metho	od					Inve	erter				
		Motor output			kW	2.9	3.5	3.9	2.9	3.5	3.9		
	External dime	ensions (H × W :	× D)		mm			1,338 × 1,05	0 × 330 (+40)				
	Weight				kg		122		YH	KM: 125 / YKME: 1	36		

į	v.	
3		ı

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

- *2 10 to 52°C D.B.: When connecting PKFY-P15/20/25VBM, PFFY-P20/25/32VKM, PFFY-P20/25/32VLE(R)M, PEFY-P*VMA3 or M, S and P series indoor unit.
 *3 In the case of ATW single connection. Input to circulation pump is not included.
 *4 In the case of simultaneous operation of ATA heating and ATW heating, target flow temperature range is restricted to 45-55°C and when the ambient temp is under 7°C,
- the flow temp is lowered.
 *5 Up to P100 when connecting via branch box.
- *6 Up to 11 units when connecting via 2 branch boxes.
 *7 Only one ecodan unit can be connected.

- "7 / Uniy one ecodan unit can be connected.

 *8 Exceptionally, one MSZ-SF15VA or MSZ-AP15VF can be connected.

 *9 Exceptionally, two MSZ-SF15VA or MSZ-AP15VF can be connected.

 *10 Exceptionally, three MSZ-SF15VA or MSZ-AP15VF can be connected.

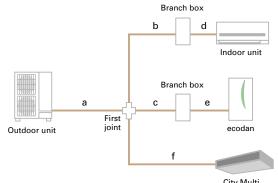
 *11 In the case of City Multi connection, maxmum is P32.

 *12 PKFY and PFFY series are not connectable.

Piping specifications

Total piping length	m	150*	a+b+c+d+e+f
Farthest piping length		80	a+b+d or a+c+e
	m	85	a+f
Total piping length betwen outdoor unit and branch box	m	55	a+b+c
Total piping length between branch boxes and indoor units	m	95	d+e
Farthest piping length from the first joint	m	30	borcorf
Farthest piping length after branch box	m	25	d or e
Height difference (Outdoor upside / Outdoor downside)	m	50 / 40	





ATW branch box connection compatibility table

Series	Туре	Model name	Compatibility	Type	Model name	Compatibility	Type	Model name	Compatibility
ATW	Cylinder	EHST20C-VM2/6C	•	Hydro	EHSC-VM2(E)C	•	Branch	PAC-MK53BC	•
	unit	EHST20C-YM9C	•	box	EHSC-VM6(E)C	•	box	PAC-MK33BC	•
		EHST20C-TM9C	•		EHSC-YM9(E)C	•		PAC-MK53BCB	•
		EHST20C-VM2/6EC	•		EHSC-TM9C	•		PAC-MK33BCB	•
		EHST20C-YM9EC	•						
		EHST20C-MHCW	•						

Branch box connection compatibility table

Series	Туре	Model name					С	ompatib	lity				
Jenes	Туре	Wodername	15	18	20	22	25	35	42	50	60	71	100
M series	Wall-mounted	MSZ-LN•VG					•						
		MSZ-AP•VF/VG	•		•								
		MSZ-FH • VE2											
		MSZ-EF•VE3		•		•	•	•		•			
		MSZ-SF•VA	•		•								
		MSZ-SF•VE3					•			•			
		MSZ-GF•VE2										•	
	Floor-standing	MFZ-KJ•VE2					•						
	1-way cassette	MLZ-KP•VF					•						
S series	Ceiling-concealed	SEZ-M•DA(L)										•	
	2×2 cassette	SLZ-M•FA											
P series	Ceiling-suspended	PCA-M•KA								•			•
	4-way cassette	PLA-RP•EA						•		•	•		•
	Ceiling-concealed	PEAD-M•JA(L)								•	•	•	•

LEV kit connection compatibility table

Series	1/11 4	Model name					Compa	atibility				
Series	I/U type	Model name	15	18	20	22	25	35	42	50	60	71
M series	Wall-mounted	MSZ-LN•VG										
		MSZ-AP•VF/VG										
		MSZ-FH•VE2								•		
		MSZ-EF•VE3										
		MSZ-SF•VA										
		MSZ-SF•VE3										
	Floor-standing	MFZ-KJ•VE2										

Connectable indoor unit capacity

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

Outdoor capacity 12.5kW	
ATW indoor unit (Cylinder or Hydro box) 11.2kW	Connectable ATA indoor unit total capacity: Max.16.2kW (130%)
Outdoor capacity 14.0kW	
ATW indoor unit (Cylinder or Hydro box) 11.2kW	Connectable ATA indoor unit total capacity: Max.18.2kW (130%)
Outdoor capacity 15.5kW	
ATW indoor unit (Cylinder or Hydro box) 11.2kW	Connectable ATA indoor unit total capacity: Max.20.2kW (130%)

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

Tot sittuitatieous operation of ATA+ATW Wax 100% of C	outuoor unit capacii	ly. ATA + A	TW (EH3120C 01 EH3C)
Outdoor capacity 12.5kW			
ATW indoor unit (Cylinder or Hydro box) 11.2kW	ATA capacity Max. 1.3kW *Exception	ally, one MS	Z-SF15VA or MSZ-AP15VF can be connected.
Outdoor capacity 14.0kW			
ATW indoor unit (Cylinder or Hydro box) 11.2kW	ATA capacity Max. 2.8kW	*Exception	nally, two units of MSZ-SF15VA or MSZ-AP15VF can be connected.
Outdoor capacity 15.5kW			
ATW indoor unit (Cylinder or Hydro box) 11.2kW	ATA capacity Ma	ax. 4.3kW	*Exceptionally, three units of MSZ-SF15VA or MSZ-AP15VF can be connected.

MELCloud (Wi-Fi interface) for ecodan

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

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

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

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



Key control and monitoring features

- 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

6 Check energy usage report* *Additional metering hardware is required.



All A⁺⁺ line-up!!

	/Ir. SLIM+		For m		emperatu	re applic	ation			For		perature	applicati	ion	
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 outdoor	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level LWA indoor	Sound power level LWA
SUHZ-SW45VA (-H)	EHST20D-***	A++	A	kW 4.6	% 126	% 109	dB 40	dB 61	A++	Α	kW 5.0	% 170	% 109	dB 40	dB 61
SUHZ-SW45VA (-H)	ERST20D-****	A++	A	4.6	128	109	40	61	A++	A	5.0	174	109	40	61
	EHSD-****	A++	-	4.6	126	-	40	61	A++		5.0	170	-	40	61
	ERSD-****	A++	-	4.6	128	-	40	61	A++	-	5.0	174	-	40	61
PUHZ-SW50VKA (-BS)	EHST20D-****	A++	Α	4.3	125	98	40	63	A++	Α	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 ⁺⁺		4.5	163	-	40	63
PUHZ-SW75VAA/YAA (-BS)	ERSD-**** EHST20D-****	A++	_ A	4.3 7.1	128 129	104	40	63 58	A++		4.5 7.2	167 162	104	40 40	63 58
1 0112 011/31/17/17/17/19/1	ERST20D-****	A++	A	7.1	132	104	40	58	A++	A	7.2	166	104	40	58
	EHSD-****	A++	-	7.1	129	-	40	58	A++	-	7.2	162	-	40	58
	ERSD-***	A++	-	7.1	132	-	40	58	A++	-	7.2	166	-	40	58
PUHZ-SW100VAA/YAA (-BS)	EHST20C-***	A++	Α	10.0	130	103	40	60	A++	Α	10.6	167	103	40	60
	ERST20C-****	A++ A++	A	10.0	132	103	40	60	A++ A++	Α	10.6	170	103	40	60
	EHSC-****	A++	-	10.0	130 132	-	40	60	A++		10.6 10.6	167 170	-	40 40	60
PUHZ-SW75VHA (-BS)	EHST20D-****	A++	A	7.1	127	100	40	68	A++	A	7.2	164	100	40	68
	ERST20D-****	A++	Α	7.1	129	100	40	68	A++	Α	7.2	166	100	40	68
	EHSD-***	A++	-	7.1	127	-	40	68	A++	-	7.2	164	-	40	68
	ERSD-***	A++	-	7.1	129	-	40	68	A++	-	7.2	166	-	40	68
PUHZ-SW75VHA (-BS)	EHST20C-****	A++	A	7.1	127	103	40	68	A++	A	7.2	165	103	40	68
	ERST20C-**** EHSC-****	A ⁺⁺	_ A	7.1	129 127	103	40	68 68	A ⁺⁺	A	7.2 7.2	167 165	103	40 40	68
	ERSC-***	A++	_	7.1	127	_	40	68	A++	_	7.2	165	_	40	68
PUHZ-SW100VHA/YHA (-BS)	EHST20C-***	A++	А	10.0	125	103	40	70	A++	Α	10.4	164	103	40	70
	ERST20C-****	A++	Α	10.0	127	103	40	70	A++	Α	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++ A++	A	12.0	125	99	40	72	A++	A	12.9	162	99	40	72
	ERST20C-**** EHSC-****	A++	A _	12.0 12.0	127 125	99	40	72 72	A++ A++	A _	12.9 12.9	164 162	99	40 40	72 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
DIVIZ OUNAGOVA A AVA A V DOV	ERSE-***	A++	-	15.5	129	-	45	78	A++	_	17.3	164	-	45	78
PUHZ-SHW80VAA/YAA (-BS)	EHST20C-**** ERST20C-****	A ⁺⁺	A	9.0	123 135	103 103	40	59 59	A ⁺⁺	A	9.6 9.6	169 172	103 103	40 40	59 59
	EHSC-***	A++		9.0	133	- 103	40	59	A ⁺⁺		9.6	169	-	40	59
	ERSC-***	A++	-	9.0	135	-	40	59	A ⁺⁺	-	9.6	172	-	40	59
PUHZ-SHW112VAA/YAA (-BS)	EHST20C-****	A++	Α	12.7	125	103	40	60	A++	Α	13.9	171	103	40	60
	ERST20C-****	A++	Α	12.7	137	103	40	60	A++	Α	13.9	173	103	40	60
	EHSC-***	A++	-	12.7	135	-	40	60	A++	-	13.9	171	-	40	60
PUHZ-SHW80VHA (-BS)	ERSC-*** EHST20C-***	A++ A++	_ A	12.7 9.0	137 131	103	40	60 69	A++ A++	_ A	13.9 9.6	173 171	103	40 40	60 69
1 0112-311W60V11A (-B3)	ERST20C-****	A++	A	9.0	133	103	40	69	A++	A	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++ A++	-	13.9 13.9	167 169	-	40 40	70 70
	FRSC-****				130	_ '		1 70			10.0	103		, +∪	
PUHZ-SHW140YHA (-BS)	ERSC-**** EHST20C-****	A ⁺⁺	_ A	12.7 15.8	130 127	103	40	70 70	A++		17.0	164	103	40	_
PUHZ-SHW140YHA (-BS)	ERSC-**** EHST20C-**** ERST20C-***		A A	15.8 15.8						A		164 165	103 103	40 40	70
PUHZ-SHW140YHA (-BS)	EHST20C-*** ERST20C-*** EHSC-***	A ⁺⁺ A ⁺⁺	Α	15.8 15.8 15.8	127 128 127	103	40 40 40	70 70 70	A ⁺⁺ A ⁺⁺ A ⁺⁺	Α	17.0 17.0 17.0	165 164	103	40 40	70 70 70
	EHST20C-**** ERST20C-*** EHSC-*** ERSC-***	A ⁺⁺ A ⁺⁺ A ⁺⁺	A A - -	15.8 15.8 15.8 15.8	127 128 127 128	103 103 - -	40 40 40 40	70 70 70 70	A ⁺⁺ A ⁺⁺ A ⁺⁺	A A -	17.0 17.0 17.0 17.0	165 164 165	103 - -	40 40 40	70 70 70 70
	EHST20C-*** ERST20C-*** EHSC-*** ERSC-*** ERSC-***	A++ A++ A++ A++	A A - -	15.8 15.8 15.8 15.8 23.0	127 128 127 128 127	103 103 - - -	40 40 40 40 45	70 70 70 70 70 75	A++ A++ A++ A++	A A - -	17.0 17.0 17.0 17.0 25.0	165 164 165 164	103 - - -	40 40 40 45	70 70 70 70 70
PUHZ-SHW230YKA2	EHST20C-*** ERST20C-*** EHSC-*** ERSC-*** ERSC-*** ERSC-***	A++ A++ A++ A++ A++	A A	15.8 15.8 15.8 15.8 23.0 23.0	127 128 127 128 127 128	103 103 - - - -	40 40 40 40 45 45	70 70 70 70 70 75 75	A ⁺⁺ A ⁺⁺ A ⁺⁺ A ⁺⁺ A ⁺⁺	A A - - -	17.0 17.0 17.0 17.0 25.0 25.0	165 164 165 164 165	103 - - - -	40 40 40 45 45	70 70 70 70 70 75
PUHZ-SHW230YKA2	EHST20C-*** ERST20C-*** EHSC-*** ERSC-*** ERSC-*** ERSE-*** EHSE-*** ERSE-***	A++ A++ A++ A++ A++ A++ A++	A A A	15.8 15.8 15.8 15.8 23.0 23.0 5.0	127 128 127 128 127 128 127 128	103 103 - - -	40 40 40 40 45 45 45	70 70 70 70 75 75 61	A ⁺⁺	A A - -	17.0 17.0 17.0 17.0 25.0 25.0 5.0	165 164 165 164 165 162	103 - - - - - 99	40 40 40 45 45 45	70 70 70 70 75 75 61
PUHZ-SHW230YKA2 PUHZ-W50VHA2 (-BS)	EHST20C-*** ERST20C-*** EHSC-*** ERSC-*** ERSC-*** ERSC-***	A++ A++ A++ A++ A++	A A	15.8 15.8 15.8 15.8 23.0 23.0	127 128 127 128 127 128	103 103 - - - - - 99	40 40 40 40 45 45	70 70 70 70 70 75 75	A ⁺⁺ A ⁺⁺ A ⁺⁺ A ⁺⁺ A ⁺⁺	A A A	17.0 17.0 17.0 17.0 25.0 25.0	165 164 165 164 165	103 - - - -	40 40 40 45 45	70 70 70 70 75 75 61 61
PUHZ-SHW230YKA2 PUHZ-W50VHA2 (-BS)	EHST20C-*** ERST20C-*** EHSC.*** EHSC.*** ERSC-*** EHSE-*** EHSE-*** EHPT20X-*** EHPX-***	A++ A++ A++ A++ A++ A++ A++	A A A	15.8 15.8 15.8 15.8 23.0 23.0 5.0 5.0	127 128 127 128 127 128 127 128 127	103 103 - - - - - 99	40 40 40 40 45 45 40 40	70 70 70 70 75 75 61 61	A++ A++ A++ A++ A++ A++ A++	A A - - - - A	17.0 17.0 17.0 17.0 25.0 25.0 5.0	165 164 165 164 165 162 162	103 - - - - - 99	40 40 40 45 45 40 40	70 70 70 70 75 75 61 61 66
PUHZ-SHW230YKA2 PUHZ-W50VHA2 (-BS) PUHZ-W85VHA2 (-BS)	EHST20C-*** ERST20C-*** EHSC-*** EHSC-*** ERSE-*** ERSE-*** ERPT20X-*** EHPT20X-*** EHPT20X-*** EHPT20X-***	A++	A A A	15.8 15.8 15.8 15.8 23.0 23.0 5.0 5.0 8.5 8.5	127 128 127 128 127 128 127 128 127 128 128 125	103 103 - - - - - 99	40 40 40 40 45 45 40 40 40 40	70 70 70 70 75 75 61 61 66 66	A++	A A - - - - A	17.0 17.0 17.0 17.0 25.0 25.0 5.0 5.0 8.5 8.5	165 164 165 164 165 162 162 162 162 164	103 - - - - - 99	40 40 40 45 45 40 40 40 40	70 70 70 70 75 75 61 61 66 66
PUHZ-SHW230YKA2 PUHZ-W50VHA2 (-BS) PUHZ-W85VHA2 (-BS) PUHZ-W112VHA (-BS)	EHST20C-*** ERST20C-*** EHSC-*** EHSC-*** EHSE-*** EHSE-*** EHPT20X-*** EHPX-*** EHPX-*** EHPX-***	A++	A A - A - A - A	15.8 15.8 15.8 15.8 23.0 23.0 5.0 5.0 8.5 8.5 10.0	127 128 127 128 127 128 127 128 127 127 128 128 125	103 103 - - - - 99 - 97 - 100	40 40 40 40 45 45 40 40 40 40 40	70 70 70 70 75 75 61 61 66 66 69	A++	A A - A - A -	17.0 17.0 17.0 17.0 25.0 25.0 5.0 5.0 8.5 8.5 10.0	165 164 165 164 165 162 162 162 162 164 164	103 - - - 99 - 97 - 100	40 40 45 45 40 40 40 40 40	70 70 70 70 75 75 61 61 66 66 69
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PUHZ-SHW140YHA (-BS) PUHZ-SHW230YKA2 PUHZ-W50VHA2 (-BS) PUHZ-W85VHA2 (-BS) PUHZ-W112VHA (-BS) PUHZ-HW112YHA2 (-BS) PUHZ-HW140VHA2/YHA2 (-BS) PUHZ-FRP71VHA2 ATA & ATW hybrid system, Mr. SLIM+	EHST20C-*** ERST20C-*** EHSC-*** EHSC-*** EHSE-*** EHSE-*** EHPT20X-*** EHPT20X-*** EHPT20X-*** EHPT20X-*** EHPT20X-*** EHPT20X-*** EHPX-*** EHPT20X-*** EHPX-*** EHPT20X-*** EHPX-*** EHPT20X-*** EHPX-*** EHPT20X-*** EHPX-*** EHPX-*** EHPT20X-*** EHPX-***	A++	A A - A A - A A - A	15.8 15.8 15.8 15.8 23.0 23.0 5.0 5.0 8.5 8.5 10.0 10.0 12.7 12.7 15.8 15.8	127 128 127 128 127 128 127 128 127 128 128 125 125 126 126 126 126	103 103 - - - - 99 - 100 - 100 - 100 - 96 -	40 40 40 40 45 45 40 40 40 40 40 40 40 40 40 40 40 40 40	70 70 70 70 70 75 75 61 61 66 69 69 69 67 67 67	A++	A A - A A - A - A A A A A A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A A - A A A A - A A A A - A	17.0 17.0 17.0 17.0 25.0 25.0 5.0 5.0 8.5 8.5 10.0 10.0 12.7 12.7 15.8 15.8	165 164 165 164 165 162 162 162 162 164 155 155 157 157	103 - - - 99 - 97 - 100 - 96 -	40 40 40 45 45 40 40 40 40 40 40 40 40 40 40 40 40 40	70 70 70 70 75 75 61 61 66 66 69 69 67 67 67
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PUHZ-SHW230YKA2 PUHZ-W50VHA2 (-BS) PUHZ-W85VHA2 (-BS) PUHZ-W112VHA (-BS) PUHZ-HW112YHA2 (-BS) PUHZ-HW140VHA2/YHA2 (-BS) PUHZ-FRP71VHA2 ATA & ATW hybrid system, Mr. SLIM+ PUMY-P112VKM3/YKM(E)4 (-BS)	EHST20C-*** ERST20C-*** EHSC-*** EHSC-*** EHSE-*** EHSE-*** EHPT20X-*** EHST20C-*** EHST20C-*** EHSC-*** EHST20C-***	A++	A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A A - A A A A - A A A A - A	15.8 15.8 15.8 23.0 23.0 5.0 8.5 8.5 8.5 10.0 10.0 12.7 15.8 15.8 7.5 7.5 11.2	127 128 127 128 127 128 127 128 127 128 127 128 125 126 126 126 126 126 123 123 121 121	103 103 - - - - - - - - - - - - -	40 40 40 40 45 45 40 40 40 40 40 40 40 40 40 40 40 40 40	70 70 70 70 75 75 61 61 66 66 69 69 67 67 67 67 68 68 69 69 69	A++	A A - A A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A A - A A A A - A A A A - A A A A - A A A A A - A A A A A - A	17.0 17.0 17.0 17.0 25.0 25.0 5.0 8.5 8.5 10.0 12.7 12.7 15.8 15.8 7.5 7.5 11.2	165 164 165 164 165 162 162 162 162 164 155 157 157 163 163 168	103 - - - - - - - - - - - - -	40 40 40 45 45 40 40 40 40 40 40 40 40 40 40 40 40 40	700 700 700 700 755 755 611 666 666 69 69 67 67 67 67 67 67 67 69 69 69 69 69 69 69 69 69 69 69 69 69
PUHZ-SHW230YKA2 PUHZ-W50VHA2 (-BS) PUHZ-W85VHA2 (-BS) PUHZ-W112VHA (-BS) PUHZ-HW112YHA2 (-BS) PUHZ-HW140VHA2/YHA2 (-BS) PUHZ-FRP71VHA2	EHST20C-*** ERST20C-*** EHSC-*** EHSC-*** EHSE-*** EHSE-*** EHSE-*** EHPT20X-*** EHSC-*** EHSC-***	A++	A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A A - A A A - A A A A - A A A A - A A A A - A A A A A - A	15.8 15.8 15.8 23.0 23.0 5.0 8.5 8.5 10.0 12.7 12.7 15.8 15.8 7.5 7.5 7.1 11.2	127 128 127 128 127 128 127 128 127 128 128 126 126 126 126 126 126 127 123 123 121	103 103 - - - - - - - - - - - - -	40 40 40 45 45 40 40 40 40 40 40 40 40 40 40 40 40 40	70 70 70 70 75 75 61 66 66 69 67 67 67 68 68 68 69 69	A++	A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A A - A A A - A A A A - A A A A - A A A A - A	17.0 17.0 17.0 17.0 25.0 25.0 5.0 8.5 8.5 10.0 12.7 12.7 15.8 15.8	165 164 165 164 165 162 162 162 164 164 155 155 157 157	103 - - - - - 99 - 100 - 100 - 100 - 98 - 75 -	40 40 40 45 45 40 40 40 40 40 40 40 40 40 40 40 40 40	70 70 70 70 75 75

 $[\]textcolor{red}{*} \ \mathsf{Based} \ \mathsf{on} \ \mathsf{COMMISSION} \ \mathsf{DELEGATED} \ \mathsf{REGULATION} \ (\mathsf{EU}) \ \mathsf{No} \ \mathsf{811/2013} \text{, average climate conditions}$

NEW ECODESIGN DIRECTIVE

WHAT IS THE ErP DIRECTIVE?

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

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

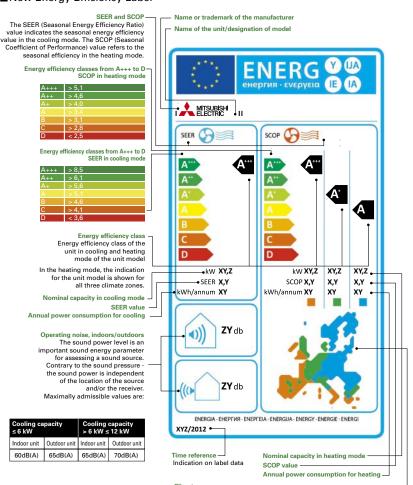
NEW ENERGY LABEL AND MEASUREMENTS

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

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

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

■New Energy Efficiency Label



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

■Climate Zones for Heating Mode

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



	Temperat	ure conditions	
Partial	Outdoors		Indoors
oad	DB	WB	DB
-	-	-	20°C
00%	2°C	1°C	20°C
64%	7°C	6°C	20°C
29%	12°C	11°C	20°C

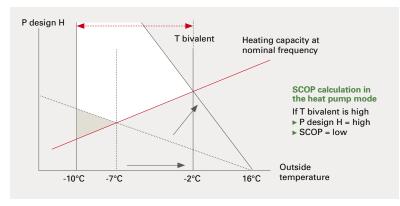
Moderate (Strasbourg)		
	Temperat	ure conditions	
Partial	Outdoors		Indoors
load	DB	WB	DB
88%	-7°C	-8°C	20°C
54%	2°C	1°C	20°C
35%	7°C	6°C	20°C
15%	12°C	11°C	20°C

	Tempera	ture conditions	
Partial	Outdoors		Indoors
load	DB	WB	DB
61%	-7°C	−8°C	20°C
37%	2°C	1°C	20°C
24%	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.

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

INVERTERS — HOW THEY WORK

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

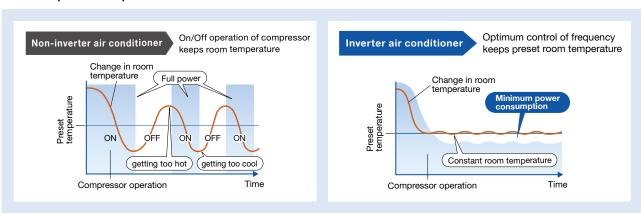
ECONOMIC OPERATION

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

TRUE COMFORT

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

■ Inverter operation comparison



The compressors of air conditioners without an inverter start and stop repeatedly in order to maintain the preset room temperature. This repetitive on/off operation uses excessive electricity and compromises room comfort. The compressors of air conditioners equipped with an inverter run continuously; the inverter quickly optimizing the operating frequency according to changes in room temperature. This ensures energy-efficient operation and a more comfortable room.

Point 1 Quick & Powerful

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

Point 2 Room Temperature Maintained

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

KEY TECHNOLOGIES

Our Rotary Compressor

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

Our Scroll Compressor

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

MORE ADVANTAGES WITH MITSUBISHI ELECTRIC



Joint Lap DC Motor

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







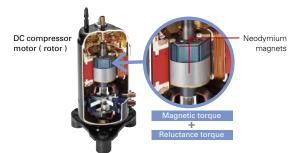
Magnetic Flux Vector Sine Wave Drive

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



Reluctance DC Rotary Compressor

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

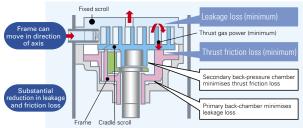




Highly Efficient DC Scroll Compressor

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







Heat Caulking Fixing Method

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





DC Fan Motor

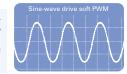
A highly efficient DC motor drives the fan of the outdoor unit. Efficiency is much higher than an equivalent AC motor.

WW Vector-Wave Eco Inverter

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

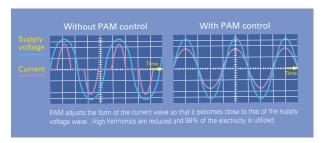
Smooth wave pattern

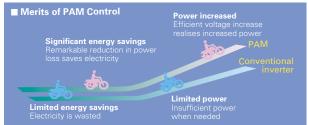
Inverter size has been reduced using insertmolding, where the circuit pattern is molded into the synthetic resin. To ensure quiet operation, soft PWM control is used to prevent the metallic whine associated with conventional inverters.



PAM PAM (Pulse Amplitude Modulation)

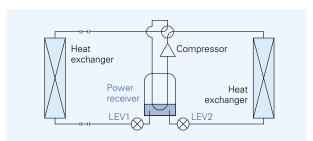
PAM is a technology that controls the current waveform so that it resembles the supply voltage wave, thereby reducing loss and realising more efficient use of electricity. Using PAM control, 98% of the input power supply is used effectively.





Power Receiver and Twin LEV Control

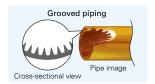
Mitsubishi Electric has developed a power receiver and twin linear expansion valves (LEVs) circuit that optimise compressor performance. This technology ensures optimum control in response to operating waveform and outdoor temperature. Operating efficiency has been enhanced by tailoring the system to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





Grooved Piping

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

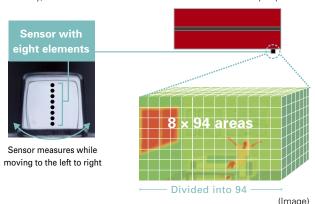


COMFORT

3D i-see Sensor

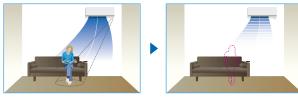
3D Fsee Sensor for M SERIES

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



No occupancy energy-saving mode

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



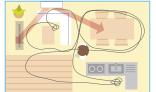
The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60 minutes.

Indirect Airflow

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



Even Airflow *LN Series only Normal swing mode



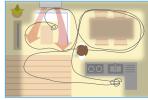
The airflow is distributed equally throughout the room, even to spaces where there is no human movement

Direct Airflow

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



Even airflow mode



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

No occupany Auto-OFF mode *LN Series only

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





3D Fsee Sensor for S & P SERIES

Detects number of people

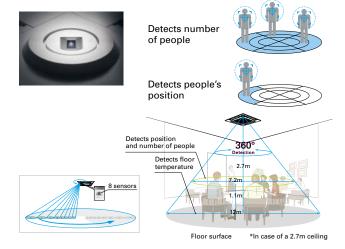
The 3D i-see Sensor detects the number of people in the room and adjusts the power accordingly. This makes automatic power-saving operation possible in places where the number of people changes frequently. Additionally, when the area is continuously unoccupied, the system switches to a more enhanced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

Detects people's position

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

Highly accurate people detection

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



Detects number of people

Room occupancy energy-saving mode

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

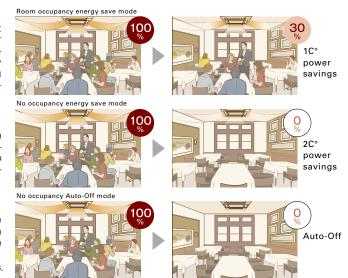
No occupancy energy-saving mode

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

No occupancy Auto-OFF mode*

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

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



*PAR-33MAA 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-33MAA or PAR-SL100A-E is required for each setting.

Seasonal airflow*

When cooling

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

When heating

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



*PAR-33MAA is required for each setting

Davtime

Area Temperature Monitor

The "3D i-see Sensor" monitors the whole room in sections and directs the airflow to areas of the room where the temperature does not match the temperature setting. (When cooling the room, if the middle of the room is detected to be hotter, more airflow is directed towards it.) This eliminates unnecessary heating /cooling and contributes to lower electricity costs.

Cooling mode



COMFORT

ENERGY-SAVING



Econo Cool Energy-Saving Feature

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

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

Econo Cool Mode

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

Econo Cool on



Conventional cooling mode



Demand Function (Onsite Adjustment)

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

[Example: Power Inverter Series]

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

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

*PUHZ outdoor only



AIR QUALITY



Plasma Quad Plus

Plasma Quad Plus is a plasma-based filter system similar to Plasma Quad, but in addition to bacteria, viruses, allergens, and dust, it can also filter out microparticles such as PM2.5.



Plasma Quad

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



Dual Barrier Coating

A two-barrier coating which prevents hydrophobic and hydrophillic dirt from sticking to the inner surface and inner parts of the indoor unit



Fresh-air Intake

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



High-efficiency Filter

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



Air Purifying Filter

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



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.

CONVENIENCE

CONVENIENCE

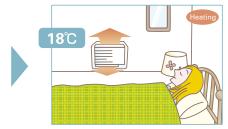


"i save" Mode

"i save" is a simplified setting function that recalls the preferred (preset) temperature by pressing a single button on the remote controller. Press the same button twice in repetition to immediately return to the previous temperature setting.

Using this function contributes to comfortable waste-free operation, realising the most suitable air conditioning settings and saving on power consumption when, for example, leaving the room or going to bed.







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

Ç\ ACO

Auto Changeover

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



Low-temperature Cooling

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



Ampere Limit Adjustment

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

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



📆 Operation Lock (Indoor unit)

To accommodate specific-use applications, cooling or heating operation can be specified using the wireless remote controller. A convenient option when a system needs to be configured for exclusive cooling or heating service.



Operation Lock (Outdoor unit)

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



Auto Restart

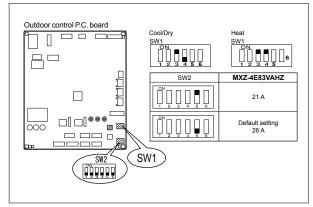
Especially useful at the time of power outages, the unit turns back on automatically when power is restored.

[28] 10°C

10°C Heating

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

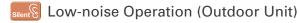
■ Dip Switch Setting (Board for MXZ-5E102)



Night Mode

When Night Mode is activated using the wireless remote controller, it will switch to the settings described below.

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



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



On/Off Operation Timer

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



Built-in Weekly Timer Function

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

■ Example Operation Pattern (Winter/Heating mode)

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
c.nn	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
6:00			Automatically change	s to high-power opera	tion at wake-up time		
800							
10:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
15:00		A				Midday is warmer,	
14:00		Automatic	ally turned off during v	vork hours		so the temperatur	e is set lower
15:00							
18:00	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C
20:00	Automatically turns on, synchronized with arrival at home					Automatically raises ten	nperature setting to de-air temperature is low
5500	material in the minor outside air temperature is now						
(during sleeping hours)	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
		Automa	atically lowers tempera	ture at bedtime for ene	ergy-saving operation a	it night	

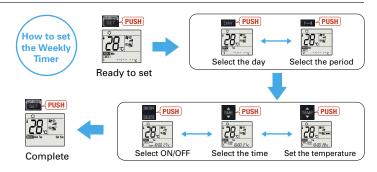
Settings

Pattern Settings: Input up to four settings for each day

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

■ Easy set-up using dedicated buttons





- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired patterns into the remote controller memory. Pushing the "CANCEL" button will end the set-up process without sending the operation patterns to the indoor unit).
 It takes a few seconds to transmit the Weekly Timer operation patterns to the indoor unit.
- Please continue to point the remote controller at the indoor unit until all data has been sent.

INSTALLATION & MAINTENANCE

INSTALLATION



Cleaning-free Pipe Reuse

It is possible to reuse the same piping. It allows cleaning-free renewal of air conditioning systems that use R22 or R410 refrigerant.

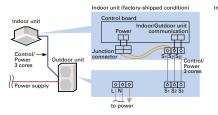
Wiring Reuse of Existing Wiring

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

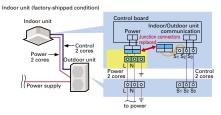
The wiring method has been improved, making it possible to use methods different from that utilized for control and power supply. Units are compatible with the dual harness control line/power line method and the separate power supply method. Using a power supply terminal kit, wire can be efficiently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

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

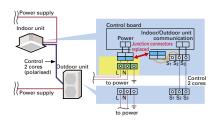
Single Harness Control/Power Line Method (Current method)



Dual Harness Control Line/Power Line Method



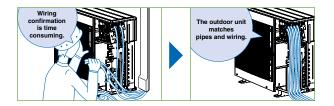
Separate Power Supply Method



Wiring/Piping Correction Function*

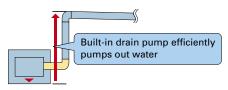
The push of a single button is all that is required to confirm that piping and wiring are properly connected. Corrections are made automatically if a wiring error is detected, eliminating the need for complicated wiring confirmation work when expanding the number of rooms served

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



Drain Pump

A built-in drain pump enables drain piping to be raised.





Flare connection to cooling pipe work is possible.

Pump Down Switch

Enables smooth and easy recovery of refrigerant. Simply press the "Pump Down" switch before moving or changing the unit.

Outdoor unit control circuit board



Pump Down Switch stop refrigerant recovery

operation automatically. (Valve in refrigerant circuit is opened/closed.)

MAINTENANCE



Self-Diagnostic Function (Check Code Display)

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

Failure Recall Function

Operation failures are recorded, allowing confirmation when needed.

SYSTEM CONTROL

SYSTEM CONTROL



PAR-33MAA/PAC-YT52CRA

Units are compatible for use with the PAR-33MAA or PAC-YT52CRA remote controller, which has a variety of management functions.



System Group Control

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



M-NET Connection

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



COMPO (Simultaneous Multi-unit Operation)

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



MXZ MXZ Connection

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

MELCloud (Wi-Fi interface)

MELCloud for fast, easy remote control and monitoring

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

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

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

Key control and monitoring features

- Turn system on/off
- See status of operating & adjust set point
- 3 Live weather feed from your location Schedule timer - Set 7 day weekly schedule Error status
- Energy Consumption Monitoring

*MSZ-LN, AP Series are available















MELCloud uses the MAC-567IF-E interface

Connecting the Wi-Fi interface

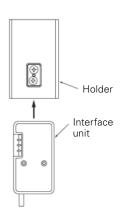
The new Wi-Fi interface MAC-567IF-E can be mounted on the wall or on the outer side of the indoor unit. For LN Series, there is a built-in Wi-Fi interface inside the indoor unit.

When mounting on the wall

The interface can be mounted simply by affixing the holder to the wall on either side of the unit and inserting the interface unit into the holder.

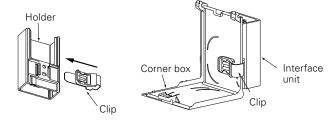


^{*}When mounting on the right side of the unit



When mounting on the outer side of the unit

The interface can be mounted on the right side, left side, bottom right, or bottom left of the indoor unit. After inserting the clip into the holder, slip the clip over the edge of the corner box.









Bottom right



Left side



Bottom left

CONTROL TECHNOLOGIES



User-friendly Deluxe Remote Controller with Excellent Operability and Visibility

PAR-33MAA

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-33MAA

PAR-33MAA			
English	Spanish	Italian	Turkish
French	Greek	Portuguese	Swedish
PAR-33MAAG			
English	German	French	Russian
Polish	Czech	Hangarian	Dutch

Temperature Control

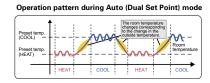


Two preset temperatures

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.

Access (1991) And Access (1991) 28.70 (2.1) 28.70 (2.1) 28.70 (2.1)



^{*}Please refer to the function list on pages 176-178 for the combination of the available units.

Energy-efficient Control

Operation Control Functions

Energysaving 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

0 1			
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

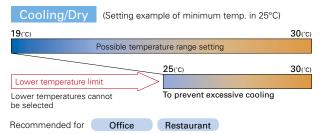
This function monitors the room temperature and automatically activates the heating mode when the temperature drops below the preset minimal temperature setting. It has the same function for cooling, automatically activating the cooling mode when the temperature rises above the preset maximum temperature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

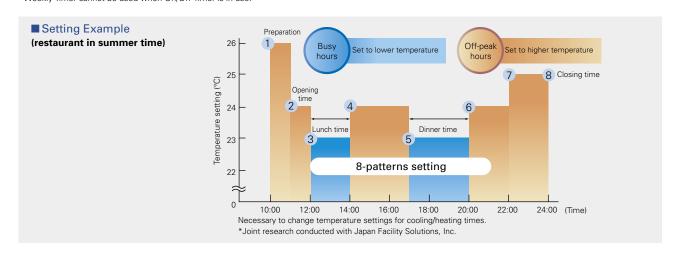
Hospital Computer server facility

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)

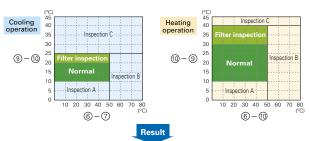
	Compressor	6	OU TH4 temp. (°C)	
1	COMP. current (A)	7	OU TH6 temp. (°C)	
2	COMP. run time (Hr)	8	OU TH7 temp. (°C)	
3	COMP. ON/OFF (times)	Indoor Unit		
4	COMP. frequency (Hz)	9	IU air temp. (°C)	
	Outdoor Unit	10	IU HEX temp. (°C)	
(5)	Sub cool (°C)	11	IU filter operating time* (Hr)	

^{*}IU filter operating time is the time elapsed since filter was reset.

Inspection Guidelines

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

			ltem
Cooling	~		(⑥ OU TH4 temp.) – (⑦ OU TH6 temp.)
Cooling	Tanan difference	(⑨ IU air temp.) – (⑩ IU HEX temp.)	
Heating	Temp. difference	(⑥ OU TH4 temp.) – (⑩ IU HEX temp.)	
		(1 IU HEX temp.) – (9 IU air temp.)	



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

- \$1: Due to indoor and outdoor temperatures, "Filter inspection" may be displayed even if the filter is
- not blocked.

 * The above graphs are based on trial data. Results may vary depending on installation/temperature
- 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

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.

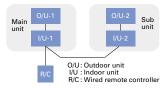
Rotation, Back-up and 2nd Stage Cut-in Functions (PAR-33MAA)

(1) Rotation and Back-up Functions

Function Outline • Main and sub units take turns operating

- 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

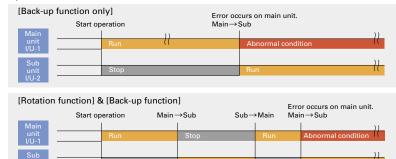
Function Outline

- 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).

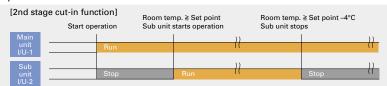
System Constraint

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

Operation Pattern



Operation Pattern



Flat

back

1–28 days

★ MIEHRE

00 * X

70mm (2-3/4 in)

120mm (4-23/32 in

1–28 days

(Ex: When the request code is "313", each unit operates alternately in daily cycle.

Simple MA Remote Controller PAC-YT52CRA

Backlit LCD

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

Flat Back

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

Vane Angle Setting

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

Pressing the 📆 button will switch the vane direction.



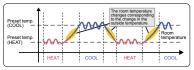
Dual Set Point

Two preset temperatures

14.5mm (9/16 in)

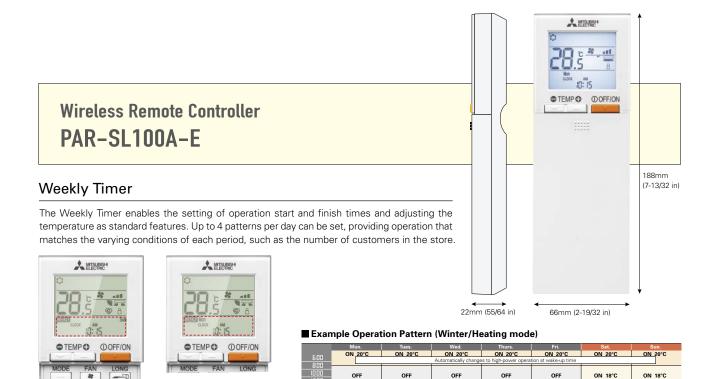
When the operation mode is set to the Auto (Dual Set Point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the COOL or HEAT mode and keep the room temperature within the preset range.

Operation pattern during Auto (Dual Set Point) mode



- *Please refer to the function list on pages 176-178 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



- hours)

 Automatically lowers temperature at bedtime for
- *Weekly Timer cannot be used when On/Off Timer is in use.

 *Only for SLZ-KF25/35/50/60VA2, PLA-ZP/RP35/50/60/71/100/125/140EA

Backlight

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

ON/OFF WEEKLY ©

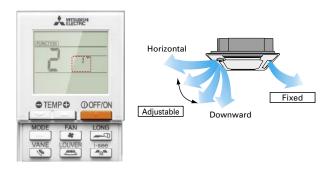




Individual Vane Settings

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

ON 20°C



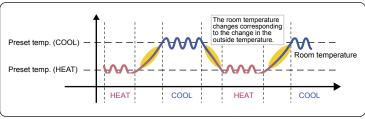
Dual Set Point

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





Operation pattern during Auto (Dual Set Point) mode



* Only available for compatible models.

Battery Replacement Sign



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

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

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





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





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

Basic Functions

Functions	Button	Liquid crystal
OFF / ON	① OFF/ON	
Preset temperature	● TEMP ●	66 .55
Mode	MODE	Cool Dry Heat Fan Auto Dual set point *Dual Set Point function not operational first use.
Fan speed	FAN	4-Speed Auto
Vane angle	VANE 🔪	5-step Swing Auto
3D i-see Sensor	i-see	Direct Indirect
Send sign		*
Battery replacement sign		
Function setting		[FUNCTION]
Test run		TEST
Self check		(CHECK)
Not available		N/A

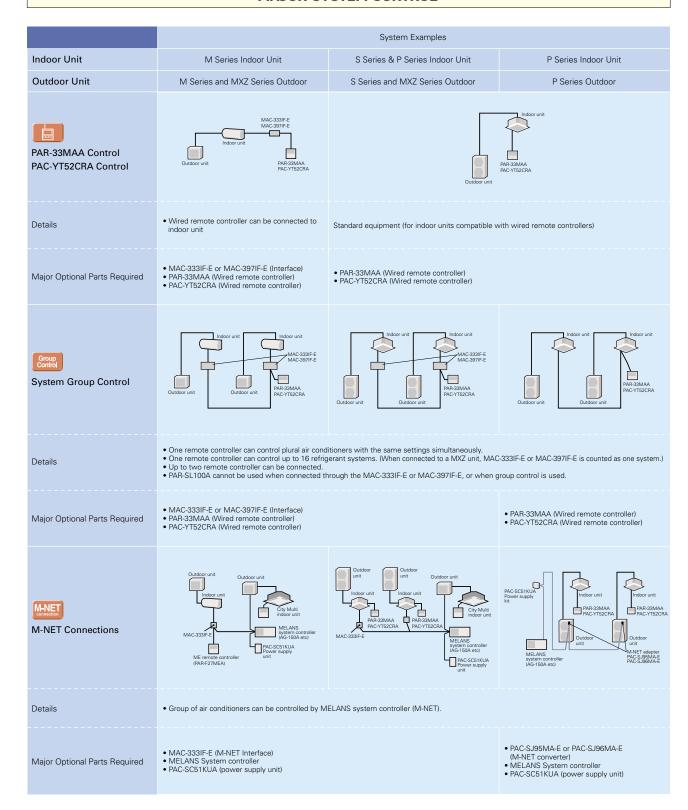
^{*}This remote controller is only compatible with the following models: SLZ-M15/25/35/50/60FA, PLFY-P15/20/25/32/40/50VFM-E1, PLA-ZM/RP35/50/60/71/100/125/140EA, PLFY-P20/25/32/40/50/63/80/100/125VEM-E

^{*}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

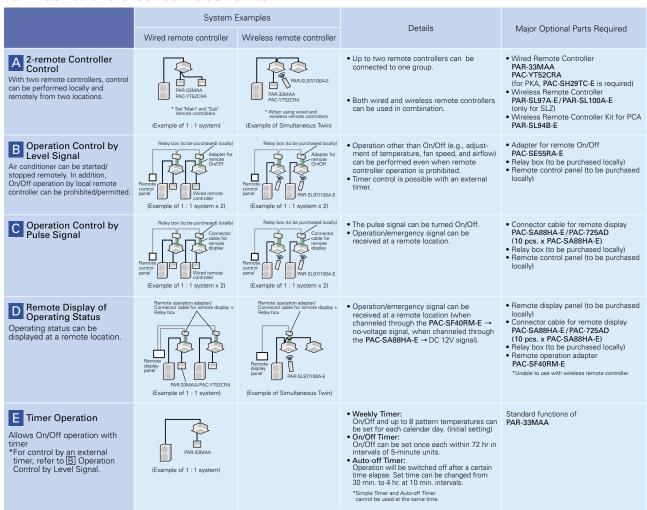


OTHERS

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.337IF-E Mac.337IF-E Mac.337IF-E Switch Switch Outdoor unit Remote control section (to be purchased locally)	Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.	On/Off operation is possible from a remote location.	MAC-333IF-E or MAC-397IF-E (Interface) Parts for circuit such as relay box, lead wire, etc. (to be purchased locally)
2 Remote Display of Operation Status • The On/Off status of air conditioners can be confirmed remotely. (MAC-333IF-E Power supply MAC-337IF-E Power supply MAC-397IF-E Power supply MAC-397IF-E Power supply MAC-397IF-E Power supply MAC-333IF-E Power supply MAC-333IF-E Power supply MAC-333IF-E Power supply MAC-337IF-E Power sup	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



FUNCTION LIST (1)

ategory	Icon													M SEI	RIES											
	nation	Indoor unit	MSZ	-LN18/2	25/35/50	0/60VG	(W)(V)(R)(B)		MSZ	Z-AP15/2	20VF			MSZ	Z-AP25/	35/42/5	0VG			MS	Z-FH25	5/35/50\	/E2		
	Combination	Outdoor unit	MUZ -LN	MXZ -2D/F	MXZ -3E/F	MXZ -4E/F	MXZ -5E	MXZ -6D	MXZ -2D/F	MXZ -3E/F	MXZ -4E/F	MXZ -5E	MXZ -6D	MUZ -AP	MXZ -2D/F	MXZ -3E/F	MXZ -4E/F	MXZ -5E	MXZ -6D	MUZ -FH	MXZ -2D	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	
echnology	DC Inverter		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•		
	Joint Lap DC Motor		•	•	•	72/83VA	•	•	•	•	72/83VA	•		•	•	•	72/83VA	•		•	•	•	72/83VA	•		
	Reluctance DC Rotary	Compressor				83	•	•			83	•	•				83	•	•				83	•	•	
	Heating Caulking (C	ompressor)	•	•	•	72/83VA	•		•	•	72/83VA	•			•	•	72/83VA	•		•	•	•	72/83VA	•		
	DC Fan Motor		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	PAM (Pulse Amplitue	de Modulation)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Power Receiver and T	win LEV Control			•	72				•	72					•	72					•	72			
	Grooved Piping		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
i-see Sensor	Felt Temperature Contro	I (3D i-see Sensor)	•	•	•	•	•	•												•	•	•	•	•	•	
	AREA Temperature	Monitor	•	•	•	•	•	•												•	•	•	•	•	•	
Energy	Econo Cool Energy-	saving Feature	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Saving	Standby Power Con	sumption Cut	•											•						•						
Air Quality	Plasma Quad Plus		•	•	•	•	•	•																		
	Plasma Quad																			•	•	•	•	•	•	
	Dual Barrier Coating	I	•	•	•	•	•	•																		
	Silver-ionized Air Pu	rifier Filter	Opt	Opt	Opt	Opt	Opt	Opt						Opt	Opt	Opt	Opt	Opt	Opt	•	•	•	•	•	•	
	Air Purifying Filter													•	•	•	•	•	•							
Air	Double Vane		•	•	•	•	•													•	•	•	•	•		
Distribution	Horizontal Vane		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Vertical Vane		•	•	•	•	•													•	•	•	•	•		
	High Ceiling Mode																									
	Auto Fan Speed Mo	de	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•	•	•	•	•	•		
	On/off Operation Tin	ner	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	"i save" Mode		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•		
n	Auto Changeover		•	●*1	• *1	• *1	• *1	• *1	• *1	● *1	• *1	●*1	• *1	•	● *1	• *1	• *1	• *1	● *1	•	• *1	• *1	• *1	● *1	• *1	
	Auto Restart		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
₹	Low-temperature Co	ooling	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	10°C Heating		•	•	•	•	•	•																		
	Low-noise Operation	(Outdoor Unit)		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•	
	Night Mode		•	• *4	• *4	• *4	• *4	• *4																		
	Ampere Limit Adjust	ment		2E		83	•	•	2E		83	•	•		2E		83	•	•		2E		83	•	•	
	Operation Lock (Ind	oor)	•	•	•	•	•	•																		
	Operation Lock (Out	tdoor)		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•	
	Built-in Weekly Time	er Function	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
System	PAR-33MAA Contro	I *3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
Control	PAC-YT52CRA Con	trol *3	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 (Control *3	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 Cont	rol *3	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	
	Wi-Fi Interface		•	•		•	•	•	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	MXZ Connection			* 2	* 2	• *2	• *2	* 2	* 2	• *2	* 2	• *2	* 2		* 2	* 2	* 2	* 2	* 2		* 2	* 2	* 2	• *2	• *2	
Installation	Cleaning-free Pipe F	Reuse	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Wiring/Piping Correct			•	•	•	•	•		•	•	•	•		•	•	•	•	•		•	•	•	•	•	
	Drain Pump																									
	Flare Connection		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Maintenance	Self-Diagnosis Function (C	Check Code Display)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	5		1		_	_	_	_	_	-															_	

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

*2 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on page 101-102 for details.

*3 Please refer to "System Control" on pages 171-172 for details.

*4 When connected to MXZ outdoor units, the outdoor operating sound will not change.

1							1								M SE	RIES							MSZ-							MSZ-
	MSZ-I	EF18/2	2/25/35	/42/50V	/E3(W)(B)(S)		MSZ	Z-SF15/	20VA			MSZ	-SF25/3	35/42/50	VE3			MSZ-0	GF60/71	VE2		WN25/ 35VA	MSZ	-DM25/3	B5VA	MSZ-	HJ25/35	/50VA	HJ60/ 71VA
	MUZ -EF	MXZ -2D/F	MXZ -3E/F	MXZ -4E/F	MXZ -5E	MXZ -6D	MXZ -2D	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	MUZ -SF	MXZ -2D	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	MUZ -GF	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	MUZ -WN	MUZ -DM	MXZ -2DM	MXZ -3DM	MUZ -HJ	MXZ -2DM	MXZ -3DM	MUZ -HJ
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•	•	•	72/83VA	•		•	•	72/83VA	•		•	•	•	72/83VA	•		•	•	72/83VA	•		•	•	•	•	•	•	•	•
				83	•	•			83	•	•				83	•				83	•	•								
		•	•	72/83VA	•		•		72/83VA	•				•	72/83VA	•			•	72/83VA	•				•	•	50	•	•	•
	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•		•	•	•			•	•
		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
			•	72				•	72					•	72				•	72						•			•	
		•	•	•	•	•		•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
				•	•	•	•		•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•											•						•												
				•	•	•						Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt								
		•	•	•	•	•						•		•	•	•			•	•	•	•								
		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•						•	•	•	•	•	•	•	•
		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•	•	•			•		•	•	•	•	•	•	•	•				•	•	•	•								
	•	●*1	●*1	●*1	● *1	●*1	● *1	●*1	●*1	●*1	● *1	•	● *1	●*1	●*1	● *1	● *1		●*1	●*1	●*1	●*1								
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•		•	•	
		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•		•	•	•	•			•	•		•	•	
		2E		83	•	•	2E		83	•	•		2E		83	•	•			83	•	•								
		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•		•	•	•	•			•	•		•	•	
	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•		•	•	•	•									
	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt				
	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt								
	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt								
	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt								
	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt								
	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt				
		•*2	•*2	•*2	•*2	•*2	•*2	•*2	•*2	• *2	• *2		•*2	•*2	•*2	•*2	•*2		* 2	•*2	•*2	*2			• *2	* 2		• *2	* 2	
	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•		•	•	•	•	•		•	•		•	•	•
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	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•
		•	•	•		•		•	•					•	•	•		•	•		• • • • • • • • • • • • • • • • • • •	•	mbined w		•	•		•	•	•

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.

174

FUNCTION LIST (1)

Cat	egory	Icon							1	M SERIE	s				
			ation	Indoor unit		MF	Z-KJ25/	35/50VI	≣2			MLZ-I	KP25/35	5/50VF	
			Combination	Outdoor unit	MUFZ -KJ	MXZ -2D	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	MXZ -2D/F	MXZ -3E/F	MXZ -4E/F	MXZ -5E	MXZ -6D
Tec	hnology	DC Inverter			•	•	•	•	•	•	•	•	•	•	•
		Joint Lap DC M	otor		•	•	•	72/83VA	•		•	•	72/83VA	•	
		Reluctance DC R	otary	Compressor				83	•	•			83	•	•
		Heating Caulkin	g (Co	ompressor)	•	•	•	72/83VA	•		•	•	72/83VA	•	
		DC Fan Motor			•	•	•	•	•	•	•	•	•	•	•
		PAM (Pulse Am	plitud	de Modulation)	•	•	•	•	•	•	•	•	•	•	•
		Power Receiver a	and T	win LEV Control			•	72				•	72		
		Grooved Piping			•	•	•	•	•	•	•	•	•	•	•
	i-see Sensor	Felt Temperature C	ontro	I (3D i-see Sensor)											
		AREA Tempera	ture l	Monitor											
	Energy	Econo Cool Ene	ergy-	saving Feature	•	•	•	•	•	•	•	•	•	•	•
	Saving	Standby Power			•										
	Air Quality	Plasma Quad P		•											
	-	Plasma Quad													
		Dual Barrier Co	ating	ı											
		Silver-ionized Ai			•	•	•	•	•	•	Opt	Opt	Opt	Opt	Opt
		Air Purifying Filt									Орг	Орг	Орг	Opt	Opt
	Air	Double Vane													
	Distribution	Horizontal Vane			•	•	•	•	•	•	•	•	•	•	•
		Vertical Vane									•	•	•	•	•
		High Ceiling Mo	nde								•	•	•	•	•
				do	•	•				•	•	•	•	•	•
	Convenience	Auto Fan Speed					•	•	•				•	•	•
	Convenience	On/off Operatio		iei	•	•	•	•	•	•	•	•	•		•
		Auto Changeov	or		•	•	•	•	0	•				-	
ions			eı		●*1	• *1	• *1	•*1	• *1	• *1	•*1	•*1	• *1	•*1	• *1
Functions		Auto Restart	0.	- Un -	•	•	•	•	•	•	•	•	•	•	•
ш		Low-temperatur	e Co	ooiing	•	•	•	•	•	•	•	•	•	•	•
		10°C Heating		(0.11.11.10)											
		Low-noise Oper	ration	(Outdoor Unit)		•	•	•	•	•	•	•	•	•	•
		Night Mode													
		Ampere Limit A				2E		83	•	•	2E		83	•	•
		Operation Lock													
		Operation Lock				•	•	•	•	•	•	•	•	•	•
	Custon:	Built-in Weekly			•										
	System Control	PAR-33MAA Co			Opt	Opt	Opt	Opt	Opt						
		PAC-YT52CRA			Opt	Opt	Opt	Opt	Opt						
		Centralised On/			Opt	Opt	Opt	Opt	Opt						
		System Group (Opt	Opt	Opt	Opt	Opt						
		M-NET Connec	tion '	*3	Opt	Opt	Opt	Opt	Opt						
		Wi-Fi Interface			Opt	Opt	Opt	Opt	Opt						
		MXZ Connectio				• *2	• *2	• *2	• *2	• *2					
	Installation	Cleaning-free P	_		•	•	•	•	•	•	•	•	•	•	•
		Wiring/Piping C	orrec	ction Function		•	•	•	•	•	•	•	•	•	•
		Drain Pump									•	•	•	•	•
		Flare Connection	n		•	•	•	•	•	•	•	•	•	•	•
	Maintenance	Self-Diagnosis Func	tion (C	heck Code Display)	•	•	•	•	•	•	•	•	•	•	•
		Failure Recall F	unct	ion	•	•	•	•	•	•	•	•	•	•	•

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

*2 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on page 101-102 for details.

*3 Please refer to "System Control" on pages 171-172 for details.

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

FUNCTION LIST (2)

Category	Icon								5	SERIE	S												P se	RIES								
	ation		Indoor unit		SLZ-I	M15/2	25/35/	50/60F	-A *7		SE	Z-M2	25/35/5	50/60/	71DA	(L)	PL	A-ZM3	35/50/6	60/71/	100/12	25/140	0EA		PL	A-RP3	35/50/	60/71	/100/1	25/14	0EA	
	Combination		Outdoor unit	SUZ -KA	PUHZ -ZRP		MXZ -3E/F		MXZ -5E	MXZ -6D	SUZ -KA		MXZ -3E/F			MXZ -6D	PUHZ -SHW	PUZ -ZM		MXZ -3E/F	MXZ -4E/F			PUHZ -SHW	PUZ -ZM	PUHZ -ZRP	SUZ -KA	PUHZ -P	MXZ -3E/F	MXZ -4E/F	MXZ -5E/F	
echnology	DC Inverter			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	T
	Joint Lap DC Motor	r		•		•	•	72/83VA	•		•	•	•	72/83VA	•			35-71	35-71	•	72/83VA	•			35-71	35-71	•	100	•	72/83VA		
	Magnetic Flux Vector	r Si	ine Wave Drive		•												•	•	•					•	•	•		•				Τ
	Reluctance DC Rotar	ry (Compressor	•				83	•	•	•			83	•	•		35-71	35-71		83	•	•		35-71	35-71	•	•		83	•	
	Highly Efficient DC S	Scro	oll Compressor		•												•	100-140	100-250					•	100-140	100-250		200-250				
	Heating Caulking (Со	empressor)	•		•	•	72/83VA	•		•	•	•	72/83VA	•			35-71	35-71	•	72/83VA	•			35-71	35-71	•	100		72/83VA	•	
	DC Fan Motor			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Vector-Wave Eco II	lnv	erter		•												•	•	•					•	•	•		•				
	PAM (Pulse Amplite	ud	e Modulation)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	35-140	35-140	•	•	•	•	•	•	35-140	•	100-40V	•	•	•	
	Power Receiver and	Tw	rin LEV Control		•		•	72					•	72			•	35-140	35-140	•	72			•	•	35-140		100-40	•	72		
	Grooved Piping			•	•		•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
i-see Sensor	Felt Temperature Contr	rol	(3D i-see Sensor)	Opt	Opt	Opt	Opt	Opt	Opt	Opt							Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	(
	AREA Temperature	e N	Monitor	Opt	Opt	Opt	Opt	Opt	Opt	Opt							Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	C
Energy Saving	Demand Function																Opt	Opt	Opt					Opt	Opt	Opt		Opt				
Attractive	Pure White			•	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	L
	Auto Vane			•	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	L
Air Quality	Fresh-air Intake			•	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	L
	High-efficiency Filte	er															Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	C
	Oil Mist Filter																															
	Long-life Filter			•	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Filter Check Signal	ı		•	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Air Distribution	Horizontal Vane			•	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Vertical Vane																															
	High Ceiling Mode			•	•		•	•	•	•								•	•				•	•	•	•	•	•	•	•	•	-
	Low Ceiling Mode																•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-
	Auto Fan Speed M			•		•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•	•	•	•	•	•	•	•	•	-
Convenience	On/off Operation Ti	ime	er	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	L
	Auto Changeover			•		• *1	• *1	• *1	• *1	• *1		• *1	• *1	• *1	• *1	• *1		•	•	• *1	• *1	• *1	• *1	•	•	•	•	•	• *1		• *1	•
	Auto Restart	_		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	
suoi	Low-temperature C	_		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	-
Functions	Low-noise Operation		· /		•	•	•	•	•	•		•	•	•	•	•	•	•	60-140V	•	•	•	•	•	•	60-140V	1	•	•	•	•	-
-	Ampere Limit Adjus	Stri	nent		60-140V	2E		83	•	•		2E		83	•	•	112/140	60-140V	200/250		83	•	•	112/140	60-140V	200/250				83	•	-
	Operation Lock Rotation, Back-up and 2nd	Cto	ago Cut in Eurotions			•	•	•	•	•		•	•	•	•	•	•			•	•	•	•						•	•	•	-
	Dual Set Point *6	1010	ige out-in runctions		•													•	•					•	•	•		•				+
System	PAR-33MAA Contro	nl :	*3	Ont		Ont	Ont	Ont	Ont	Ont	Ont	Ont	Ont	Ont	Ont	Ont	Ont		_	Ont	Ont	Ont	Ont	Ont	_		Ont	_	Ont	Ont	Ont	-
Control	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	Opt	Opt	Opt	Opt	Opt Opt	Opt	Opt			+
	Centraliesd On/Off	_		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	Opt	Opt Opt	Opt Opt	Opt Opt	Opt Opt	Opt	Opt	Opt	Opt Opt	Opt	Opt			+
	M-NET Connection	_		Opt	Орі			Opt	Opt						Opt		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt		Opt	Opt	Opt	Opt	<u> </u>	_	+
	COMPO *4	1 .	,	Opt	71-140	Opt	Opt	Орі	Opt	Opt	Opt	Opt	Opt	Орі	Opt	Opt	Орг		71-250	Opt	Opt	Орг	Opt	Орі	Opt	71-250		Орг	Opt	Opt	Opt	-
	MXZ Connection				/ 140	• *2	* *0	* 2	• *2	• *2		• *2	• *2	*2	* 2	★0	_	/ 1-140	11-200	* 2	* 2	*2	*2	-	7 1-140	11-200		-	* *0	* 2	* *0	
Installation	Cleaning-free Pipe	R	euse	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	• 2	•	•	•	•	•	•	•	•	•	•	
motaliation	Reuse of Existing V				-	-	-	-	-	-	-	-	-	-	-		Opt		Opt	-	-		-	Opt	Opt	Opt		Opt	-		-	H
	Wiring/Piping Corre					•	•	•	•	•		•	•	•	•	•	Opt	Opt	Орг	•	•	•	•	Орг	Орг	Орг		Opt	•	•	•	+
	Drain Pump			•	•	•	•	•	•	•	Opt	Opt	Opt		Opt	Opt	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	t
	Pump Down Switch	h			-	-	-	-		-	Ορι	Opt	Орі	Opt	Opt	Opt	•	•	•	-			-	•	•	•		•			-	+
	Flare Connection			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Maintenance	Self-Diagnosis Function ((Ch	eck Code Display)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	+
iviaii iteriarice	Con-Diagnosis Function ((UII	out oute Display)	_	•	•	-	-	•	•	•	•	-	-	-	_	•	-	-	•	-		-	•	-	-	-	-	-	-	-	+

^{*1} When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible.
*2 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on page 101-102 for details.
*3 Please refer to "System Control" on pages 171-172 for details.

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

^{*4} Please refer to page 163 for details.
*5 PEAD-RP JALQ are not equipped with a drain pump.
*6 This function is only available with PAR-33MAA, PAC-YT52CRA.
*7 SLZ-M15 can be connected with R32 MXZ only.

FUNCTION LIST (2)

ategory	Icon										P se	ERIES									
	ation	Indoor unit			PEA	D-M35/50	60/71/10	0/125/140	JA(L)			PE RP20 WI	0/250	М	PKA- 35/50HA(L)	Р	KA-M60/	71/100KA	.(L)	
	Combination	Outdoor unit	PUHZ -SHW	PUZ -ZM	PUHZ -ZRP	PUHZ -P	SUZ -KA	MXZ -3E/F	MXZ -4E/F	MXZ -5E/F	MXZ -6D	PUHZ -ZRP	PUHZ -P	PUZ -ZM	PUHZ -ZRP	PUHZ -P	PUHZ -SHW	PUZ -ZM	PUHZ -ZRP	PUHZ -P	
chnology	DC Inverter		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Г
	Joint Lap DC Moto	f		35-71	35-71	100	•	•	72/83VA	•				35-71	35-71	100		60/71	60/71	100	
	Magnetic Flux Vector	Sine Wave Drive	•	•	•	•						•	•	•	•	•	•	•	•	•	
	Reluctance DC Rota	y Compressor		35-71	35-71	100-140	•		83	•	•			35-71	35-71			60/71	60/71	100-140	
	Highly Efficient DC S	croll Compressor	•	100-140	100-250	200/250						•	•	100-200	100-200	200	•	100-250	100-250	200/250	
	Heating Caulking (Compressor)		35-71	35-71	100	•	•	72/83VA	•				35-71	35-71			60/71	60/71	100	
	DC Fan Motor		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Vector-Wave Eco I	nverter	•	•	•	•						•	•	•	•	•	•	•	•	•	
	PAM (Pulse Amplit	ude Modulation)	•	•	35-140	100-140V	•	•	•	•	•			35-140	35-140	100V-140V	•	•	60-140	100-140V	
	Power Receiver and	Twin LEV Control	•	•	35-140			•	72					35-140	35-140	100-140	•	•	60-140	100-140	
	Grooved Piping		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
i-see Sensor	Felt Temperature Contr	ol (3D i-see Sensor)																			
	AREA Temperature	Monitor																			İ
Energy Saving	Demand Function		Opt	Opt	Opt	Opt						Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
Attractive	Pure White													•	•	•	•	•	•	•	
	Auto Vane													•	•	•	•	•	•	•	Т
Air Quality	Fresh-air Intake																				Т
	High-efficiency Filte	er																			Т
	Oil Mist Filter																				
	Long-life Filter		•	•	•	•	•	•	•	•	•										Т
	Filter Check Signal		•	•	•	•	•	•	•	•	•			Opt	Opt	Opt	Opt	Opt	Opt	Opt	
Air	Horizontal Vane													•	•	•	•	•	•	•	
	Vertical Vane																				
	High Ceiling Mode																				
	Low Ceiling Mode																				Т
	Auto Fan Speed M	ode	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	
Convenience	On/off Operation T	mer	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	T
	Auto Changeover		•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	
	Auto Restart		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
2	Low-temperature C	ooling	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Low-noise Operation	n (Outdoor Unit)	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	
5	Ampere Limit Adjus	tment	112/140	60-140V	60-140V 200/250				83	•	•	•		60-140V	60-140V 200/250		112/140	60-140V	60-140V 200/250		
	Operation Lock				200/200										200/200				200/200		
	Rotation, Back-up and 2nd	Stage Cut-in Function	s •	•	•	•								•	•	•	•	•	•	•	Т
	Dual Set Point *6			•	•	•						•	•	•	•	•		•	•	•	
System	PAR-33MAA Contr	ol *3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
Control	PAC-YT52CRA Co	ntrol *3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	Centraliesd On/Off	Control *3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt			Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	System Group Cor	trol *3	•	•	•	•	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	
	COMPO *4		•	71-140	71-250	•								71-140	71-250	•	•	71-140	71-250	•	
	MXZ Connection							* 2	• *2	• *2	• *2										
Installation	Cleaning-free Pipe	Reuse	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Reuse of Existing \	Viring	Opt	Opt	Opt	Opt								Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	Wiring/Piping Corre							•	•	•	•					·					T
	Drain Pump		• *5	• *5	• *5	• *5	• *5	• *5	* 5	• *5	• *5			Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	Pump Down Switch	1	•	•	•	•						•	•	•	•	•	•	•	•	•	T
	Flare Connection		•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	
			_																		\vdash
Maintenance	Self-Diagnosis Function	Check Code Display)																			1

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

*2 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on page 101-102 for details.

*3 Please refer to "System Control" on pages 171-172 for details.

^{*4} Please refer to page 163 for details.
*5 PEAD-M JAL are not equipped with a drain pump.
*6 This function is only available with PAR-33MAA, PAC-YT52CRA.

					_					
					P SERIES			PCA-		
		PCA-M3	5/50/60/7	71/100/12	5/140KA			RP71 HAQ		RP71/ 5/140KA
PUZ -ZM	PUHZ -ZRP	PUHZ -P	SUZ -KA	MXZ -3E/F	MXZ -4E/F	MXZ -5E/F	MXZ -6D	PUHZ -ZRP	PUHZ -ZRP	PUHZ -P
	•	•	•	•	•	•	•	•	•	•
35-71	35-71	100	•	•	•	•	•	71	71	100
	•	•						•	•	•
35-71	35-71	100-140			83	•	•	71	71	100-140
100-140	100-250	200/250						100-250	100-250	200/250
35-71	35-71	100	•	•	72			71	71	100
	•	•	•	•	•	•	•	•	•	
•	•	•						•	•	•
•	35-140	100-140V	•	•	•	•	•	71-140	71-140	100-140V
•	35-140	100-140		•	72	•	•	71-140	71-140	100-140
•	•	•	•	•	•	•	•	•	•	•
Opt	Opt	Opt						Opt	Opt	Opt
•	•	•	•	•	•	•	•		•	•
•	•	•	•	•	•	•	•			
•	•	•	•	•	•	•	•	•		
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt			
								•		
	•	•	•	•	•	•	•		•	
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•			
									•	•
•	•	•	•	•	•	•	•			
•	•	•	•	•	•	•	•		•	•
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	• *1	• *1	0 *1	• *1	•	•	•
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
•	•	•		•	•	•	•		•	•
60-140V	60-140V 200/250				83	•	•		71-140V 200/250	
	200/230			•	•	•	•	200/230	200/230	
	•	•						•		
•	•	•								
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt		
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt		
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
•	•	•	Opt	•	•	•	•	•	Opt	Opt
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
71-140	71-250	•						71-250	71-250	•
				* 2	• *2	• *2	* 2			
•	•	•	•	•	•	•	•	•	•	•
Opt	Opt	Opt						Opt	Opt	Opt
				•	•	•	•			
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt			
•	•	•						•	•	•
•	•	•	•	•		•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
•		numerical f	e in the	-104 450 6	• ·	ah. a. ailai	a la cuitta ta	•	e de la constantia	•

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

Major Optional Parts

Part Name	Description	Part Name	Description
Deodorising Filter Captures small foul-smelling substances in the air.	Decidensing filter	Drain Pump Pumps drain water to a point higher than that where the unit is installed.	*for ceiling-suspended units
Air-cleaning Filter Removes fine dust particles from the air by means of static electricity.	Air-cleaning filter	Decorative Cover To be attached to the upper section of ceiling- suspended models for professional kitchen use. Helps prevent dust accumulation.	Decorative Over Indoor unit
Silver-ionized Air Purifier Filter Captures the bacteria, pollen and other allergens in the air and neutralises them.	Silver-ionized Air Purifier Filter	MA & Contact Terminal Interface Interface for connecting with the PAR-33MAA remote controller and PAC-YT52CRA, and to relay operation signals.	MA & contact terminal interfa
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	System Control Interface Interface to connect with M-NET controllers.	System control interface Indoor unit
High-efficiency Filter Element Element for high-efficiency filter. Removes fine dust particles from the air.	Plug (for directing inflow) 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.	WiFi interface
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
3D i-see Sensor Corner Panel for PLA Corner panel holding the 3D i-see Sensor.	I-see Sansor comer panel	Power Supply Terminal Kit Terminal bed to change the power supply from outdoor power supply to separate indoor/ outdoor power supplies.	
Shutter Plate Plate for blocking an air outlet of the 4-way cassette (PLA) indoor unit.	Shutter Plate	Wired Remote Controller Advanced deluxe remote controller with full- dot liquid-crystal display and backlight. Equipped with convenient functions like night- setback.	⊕ ⊙ ⊙ ⊙
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 200F
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 Signal receiver
Wireless Remote Controller Kit (Sender & Receiver) Remote controller handheld unit (signal sender) and receiver (signal receiver) for ceiling- suspended units.	Signal receiver
Control Holder Holder for storing the remote controller.	Control holder
Remote Sensor Sensor to detect the room temperature at remote positions.	Remote sensor
Remote On/Off Adapter Connector for receiving signals from the local system to control the on/off function.	Remote on/off adapter
Remote Operation Adapter Adapter to display the operation status and control on/off function from a distance.	Remote operation adapter
Connector Cable for Remote Display Connector used to display the operation status and control on/off function from a distance.	Connector cable for remote display Brown Red Red Grang Yellow Green
Distribution Pipe Branch pipe for P Series simultaneous multisystem use, or to connect two branch boxes for PUMY.	Indoor unit Indoor unit Indoor unit Distribution pipe "P Series with 2 indoor units
Joint Pipe Part for connecting refrigerant pipes of different diametres.	Indoor unit Joint pipe Onsite pipe
Liquid Refrigerant Dryer Removes water and minute particles from refrigerant pipes.	
Branch Box Outer Cover Casement for branch boxes.	Complete view Branch box outer cover
Air Discharge Guide Changes the direction of air being exhausted from the outdoor unit.	

Air Protection Guide Protects the outdoor unit from the wind. Drain Socket A set of caps to cover unnecessary holes at the bottom of the outdoor unit, and a socket to guide drain water to the local drain pipe. Centralised Drain Pan Catches drain water generated by the outdoor unit		
Drain Socket A set of caps to cover unnecessary holes at the bottom of the outdoor unit, and a socket to guide drain water to the local drain pipe. Centralised Drain Pan Catches drain water generated by the outdoor unit. M-NET Converter Used to connect P Series A-control models to M-NET controllers. Control/Service Tool Monitoring tool to display operation and self-diagnosis data. Step Interface Interface for adjusting the capacity of inverter-equipped outdoor units. High-static Fan Motor	Part Name	Description
A set of caps to cover unnecessary holes at the bottom of the outdoor unit, and a socket to guide drain water to the local drain pipe. Centralised Drain Pan Catches drain water generated by the outdoor unit. M-NET Converter Used to connect P Series A-control models to M-NET controllers. Control/Service Tool Monitoring tool to display operation and self-diagnosis data. Step Interface Interface for adjusting the capacity of inverter-equipped outdoor units. High-static Fan Motor		
Catches drain water generated by the outdoor unit. M-NET Converter Used to connect P Series A-control models to M-NET controllers. Control/Service Tool Monitoring tool to display operation and self-diagnosis data. Step Interface Interface for adjusting the capacity of inverter-equipped outdoor units. High-static Fan Motor	A set of caps to cover unnecessary holes at the bottom of the outdoor unit, and a socket to	
Used to connect P Series A-control models to M-NET controllers. Control/Service Tool Monitoring tool to display operation and self-diagnosis data. Step Interface Interface for adjusting the capacity of inverter-equipped outdoor units. High-static Fan Motor	Catches drain water generated by the outdoor	Centralised drain pan
Monitoring tool to display operation and self-diagnosis data. Step Interface Interface for adjusting the capacity of inverter-equipped outdoor units. High-static Fan Motor	Used to connect P Series A-control models to	M-NET Converter
Interface for adjusting the capacity of inverter-equipped outdoor units. High-static Fan Motor	Monitoring tool to display operation and self-	Control/service tool
	Interface for adjusting the capacity of inverter-	89

Optional Parts List <Indoor>

	Option				Fi	lter	,				Custom	MA &				Wired	d Remote Co	ntroller
				ilver-ior Purifier			Deodo Fil	orising ter	Air Purifying Filter	Softdry cloth	System Control Interface	Contact Terminal Interface	Wi-Fi Interface		nector able	Cor	ntroller	Controller Holder
Indoor Unit		MAC- 2360 FT	MAC- 2370 FT	MAC- 2380 FT	MAC- 2390 FT	MAC- 172 FT-E	MAC- 3000 FT-E	MAC- 3010 FT-E	MAC- 3005 CF-E	MAC- 1001 CL-E	MAC- 333IF-E	MAC- 397IF-E	MAC- 567IF-E	MAC- 1702RA-E	MAC- 1710RA-E	PAR- 33MAA	PAC- YT52CRA	MAC- 1200RC
Wall -	MSZ-LN18VG(W)(V)(R)(B)				•			•		•	•	•		•	•	● *1	•1	
mounted	MSZ-LN25VG(W)(V)(R)(B)							•		•	•	•		•		1 1	● *1	
	MSZ-LN35VG(W)(V)(R)(B)							•		•	•	•		•	•	0 11	1 1	
	MSZ-LN50VG(W)(V)(R)(B)				•			•		•	•	•		•	•	0 11	● *1	
	MSZ-LN60VG(W)(V)(R)(B)				•			•		•	•	•		•	•	0 11	● *1	
	MSZ-AP15VF										•	•	•			1 1	1	
	MSZ-AP20VF										•	•	•			1 1	1	
	MSZ-AP25VG		•								•	•	•			1 1	1 1	
	MSZ-AP35VG										•	•				1 1	1 1	
	MSZ-AP42VG										•	•	•			1 1	1 1	
	MSZ-AP50VG										•	•	•			1 1	● *1	
	MSZ-FH25VE2															1 1	1 1	
	MSZ-FH35VE2															1 1	● *1	
	MSZ-FH50VE2														•	1 1	● *1	
	MSZ-EF18VE3(W)(B)(S)											•	•			1 1	1 1	
	MSZ-EF22VE3(W)(B)(S)											•	•			1 1	● *1	
	MSZ-EF25VE3(W)(B)(S)									•		•	•			1 1	● *1	
	MSZ-EF35VE3(W)(B)(S)															1 1	1	
	MSZ-EF42VE3(W)(B)(S)		•							•	•	•	•			● *1	● *1	
_ω	MSZ-EF50VE3(W)(B)(S)										•	•	•			● *1	1	
#	MSZ-SF15VA												•			1 1	1 1	
	MSZ-SF20VA										•	•	•			1 1	● *1	
M SERIES	MSZ-SF25VE3										•	•	•			1 1	● *1	
_	MSZ-SF35VE3															1 1	1 1	
	MSZ-SF42VE3												•			1 1	● *1	
	MSZ-SF50VE3										•	•	•			1 1	● *1	
	MSZ-GF60VE2															1 1	1	
	MSZ-GF71VE2	•										•	•			1 1	1 1	
	MSZ-WN25VA										•	•	•	•	•	•	•	
	MSZ-WN35VA										•		•	•		•	•	
	MSZ-DM25VA		•	_							•	•	•	•	•	1	1	
	MSZ-DM35VA										•	•	•	•	•	● *1	0 *1	
	MSZ-HJ25VA		•											•	0			•
	MSZ-HJ35VA		•	-										•	•			•
	MSZ-HJ50VA		•	_										•	0			•
	MSZ-HJ60VA		•											•	•			•
	MSZ-HJ71VA	.		_										•	•			•
Floor -	MFZ-KJ25VE2										•	•	•	•	•	@*1	● *1	
standing	MFZ-KJ35VE2		•								•	•	•	•	•	1	1	
	MFZ-KJ50VE2	.	•	_							•	•	•	•	•	1 1	1	
1-way	MLZ-KP25VF		•								•	•	•	•	•	@*1	@*1	
cassette	MLZ-KP35VF		•								•	•	•	•	•	1	1	
	MLZ-KP50VF														•	1 1	● *1	

^{*1} MAC-333IF-E or MAC-397IF-E is required.

Optional Parts List <Indoor>

		Option					Filter						i-see	0	Multi-	Fre	esh-air										System
	\		Oil Mist Filter Element	7	High-ef Filter F	efficiency Element	y It		Filte	er Box	_ '	Cor	ensor orner anel	Shutter Plate	functional	al Intake	ke Duct ange	Space Panel		_	Drain '	n Pump	, _			corative Cover	Control
idoor Un			PAC- SG38 KF-E	3 SH59	9 SH88	3 SH89	9 SH90	KE92	2 KE93	8 KE94	1 KE95	SF1	PAC- SE1 E ME-E	I SJ37	7 SJ41	PAC- SH65 OF-E	SF28	SJ65	SH94	4 SH75	5 SJ92	2 SJ93	3 SJ94	PAC- KE07 E DM-E	7 SF81	1 SF82	32 NIAC-
4-way		SLZ-M15FA										•															•
cassette		SLZ-M25FA										•															•
		SLZ-M35FA										•															•
		SLZ-M50FA										•															•
		SLZ-M60FA										•															•
Ceiling	ng - S	SEZ-M25DA(L)																						•	_		•
concea		SEZ-M35DA(L)												<u> </u>		<u> </u>								•	_		•
		SEZ-M50DA(L)				<u> </u>	—							+								\top	+				•
		SEZ-M60DA(L)	4											47			4							•	_		•
		SEZ-M71DA(L)														T								•	_		•
4-way	y F	PLA-ZM35EA		•									•	•	•	•		•									• *1
Cassett		PLA-ZM50EA	4			4				4	4	4	•	•	•	•		•			47	47	47	47	47	47	• *1
		PLA-ZM60EA											•	•	•	•		•									0 *1
		PLA-ZM71EA					<u> </u>						•	•	•	•	_	•									0 *1
		PLA-ZM100EA	4										•	•	•		4	•				47	47	47	47	47	011
		PLA-ZM125EA		•									•	•	•	•		•									1
		PLA-ZM140EA					<u> </u>						•	•	•	•	<u> </u>	•									0 *1
		PLA-RP35EA	4										•	•	•		4	•				47	47	47	47	47	011
		PLA-RP50EA											•	•	•	•		•									0 *1
		PLA-RP60EA	\vdash	•	<u> </u>	<u> </u>	—		—				•	•	•	•		•					+				1 1
		PLA-RP71EA		0									•	•	•	•		•				47	47	47		47	011
		PLA-RP100EA		0		,	<u> </u>						•	•	•	•		•									0"1
	F	PLA-RP125EA		•					<u> </u>					•	•	•	+	•			+	+	+	+	+	+	•
	F	PLA-RP140EA		•									•	•													•
Ceiling	ng - F	PEAD-M35JA(L)						•																			1
concea		PEAD-M50JA(L)						•						T		T											1
		PEAD-M60JA(L)	4						•					4		4											1
A	A '	PEAD-M71JA(L)							•																		1 1
		PEAD-M100JA(L)								•																	1
	7	PEAD-M125JA(L)	4			4				•				4.7									47				1
,		PEAD-M140JA(L)									•																0 *1
-		PEA-RP200WKA												T_'		T							\top				0 *1
		PEA-RP250WKA	4																								● *1
Wall -	<u>.</u>	PKA-M35HA(L)																		•							1
mounte		PKA-M50HA(L)												\Box						•							0 *1
A		PKA-M60KA(L)	4													4			•								• *1
A		PKA-M71KA(L)								\Box				\Box					•								• *1
A		PKA-M100KA(L)					\Box	\Box						\Box					•				\Box	\perp			0 *1
Ceiling		PCA-M35KA	4		•									4		4	$4\Box$				•						• *1
suspen	ended F	PCA-M50KA			•									\Box							•						●"1
A		PCA-M60KA	'			•						<u> </u>											•	\perp		L	0 *1
		PCA-M71KA	Φ																			•					0 11
A		PCA-M100KA					•							\Box								•					
A		PCA-M125KA					•							\Box								•					
		PCA-M140KA	$I \subseteq I'$				•			4				A = 2								•	47				
A	F	PCA-RP71HAQ	•														•								•		
Floor -	_	PSA-RP71KA																									
standin		PSA-RP100KA	$4 \square^2$											4	4	4											
A		PSA-RP125KA												T_'													
		PSA-RP140KA			<u> </u>	<u> </u>	<u> </u>	_	_					 - - 	 	_	_	—	<u> </u>		+	+	+	+	+	+	\vdash

^{*1} P Series indoor units can be used in combination with SUZ or MXZ outdoor units. *2 Unable to use with wireless remote controller. *3 Two interface components required for each indoor unit. *4 Refrigerant address must be set to 00. *5 PAC-SH29TC-E is required. *6 Group control cannot be used.

	MA &						Wired F	Remote (Controller		Wirele	ss Re	mote C	ontrolle	er l				Connector
	MA & Contact Terminal Interface	Wi-Fi Interface	F	ower Termi	Supp nal Ki	ly t	Contr		Terminal Block kit for PKA		nal nder		Signal Receive		Controller Kit (Sender & Receiver)	Remote Sensor	Remote On/Off Adapter	Remote Operation Adapter	Connector Cable for Remote Display
	MAC- 397IF-E	MAC- 567IF-E	PAC- SG94 HR-E	PAC- SG96 HR-E	SG97	PAC- SJ39 HR-E	PAR- 33MAA	PAC- YT52CRA	PAC- SH29TC-E	PAR- SL97 A-E	PAR- SL100 A-E	PAR- SA9C A-E	PAR- SF9 FA	PAR- SE9 FA-E	PAR- SL94 B-E	PAC- SE41 TS-E	PAC- SE55 RA-E	PAC- SF40 RM-E	PAC- SA88 HA-E
	•	•					•	•		•	●,6		•			•	•	•*2	•
		•								•	●.e					•		•*2	
											●,6							•*2	
	•	•					•	•		•	●.e		•				•	0 *2	•
	•	•					VAQ	VAQ		•	●*6	•	•			•	•	• *2	•
	•	•					VAQ	VAQ		•		•				•	•	• 2	•
	•	•					VAQ	VAQ		•		•				•	•	• 2	
	•	•					VAQ	VAQ		•		•				•	•	• *2	•
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	0 *1	•				•	•	•		•	6 *6			•		•		• *2	•
	0 *1	•				•					6 *6					•	•	• *2	
	● *1	•				•					●.6						•	• *2	
	●*1	•				•	•	•		•	●.e			•		•	•	•*2	•
	● *1	•				•					6							•*2	
	●*1	•				•	•			•	●.6			•		•	•	•*2	•
	●*1	•				•	•	•		•	●.6			•		•	•	•*2	•
	●*1	•				•	•	•		•	●.e			•		•	•	*2 *2	•
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	011	•				•	•	•		•	6			•		•	•	• '2	•
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	1 1	•			•												•	•*2	
	11	•			•					•		•					•	•*2	
	● *1	•			•		•	•		•		•				•	•	•*2	
	0 *1	•			•		•	•		•		•				•		•*2	
	@*1	•			•		•	•		•		•				•	•	0 *2	•
	@*1	•					•	•								•	•	•*2 •*2	•
	●*1 ●*1	•	•				•*5	•*5	•							•		- 2	•
	0 11	•	•				•*5	• *5	•	•						•	•		
	011	•	•				•*5	• *5	•	•						•	•		
	0 *1	•	•				•*5	6 *5	•	•						•	•		•
	1 1	•	•				6 *5	●*5	•	•						•	•		•
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	0 *1	•		•			•	•		•					•	•		•*2	•
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Optional Parts List <Outdoor>

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`		Option		ומווומוט			Linit	Linit	Unit			Linit	Linit	Unit	Liquid	i ioniyera	in Diyer										1
İ			-	or	For	For Quad-	Unit ø6.35	Unit ø9.52	Unit ø15.88	Unit ø9.52	Unit ø6.35	Unit	Unit ø12.7	Unit ø12.7	For	For	For										
			T۱	win	Triple (33:33:	ruple	>	>	>	>	>	>	>	>	pipe	pipe	pipe				Air C	Outlet G	iuide				1
			(50):50)	33)	(25:25:	Pipe	Pipe	Pipe	Pipe	Pipe	Pipe	Pipe	Pipe	ø6.35	ø9.52	ø12.7										1
			· .		33,	25:25)	ø9.52	ø12.7	ø19.05	ø15.88	ø9.52	ø12.7	ø9.52	ø15.88													1
					1		PAC-	PAC-	PAC-			Flare			PAC-	PAC-	PAC-	MAC-	MAC-	MAC-	MAC-	MAC-	MAC-	PAC-	PAC-	PAC-	1
			MSDD-	MSDD-	MSDT-	MSDF-		SG73		PAC-	PAC-	MAC-	MAC-	MAC-	SG81	SG82	SG85	889	881	882	856	886	883	SJ07	SG59	SH96	1
Ou	tdoor Unit		50TR-E	50WR-E	111K-E	1111R-E	RJ-E		RJ-E	SG76 RJ-E	493 PI	JP-E	A455 JP-E	A456 JP-E	DR-E	DR-E	DR-E	SG	SG	SG	SG	SG-E		SG-E	SG-E	SG-E	1
	L Series	MUZ-LN25VG			1					nJ-E	1	JP'-E	JP'-E	JF'-E				•	•								\vdash
	L Jones	MUZ-LN25VGHZ												_				•	•								\vdash
		MUZ-LN35VG																•									
		MUZ-LN35VGHZ																•	•								
		MUZ-LN50VG													_			_		•							_
		MUZ-LN50VGHZ																									
		MUZ-LN60VG																				•					
	A Series	MUZ-AP25VG					_							_								_					\vdash
	A delles	MUZ-AP25VGH																									
		MUZ-AP35VG																									
		MUZ-AP35VGH												_													\vdash
		MUZ-AP42VG																									
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		MUZ-AP50VGH																									-
	F Series	MUZ-FH25VE																•	•								
	1 361163	MUZ-FH25VEHZ					_							_				•	•								\vdash
		MUZ-FH35VE																•	•								
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	E Series	MUZ-EF25VE																•	•								1
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		MUZ-EF35VE																•	•								
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3E		MUZ-EF42VE																•	•								t
M SERIES		MUZ-EF50VE																				•					
>	S Series	MUZ-SF25VE																•	•								
	5 5565	MUZ-SF25VEH																•	•								T
		MUZ-SF35VE																•	•								
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		MUZ-SF50VE																				•					
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	G Series	MUZ-GF60VE																				•					
		MUZ-GF71VE																				•					
	W Series	MUZ-WN25VA																					•				
		MUZ-WN35VA																					•				
	D Series	MUZ-DM25VA																					•				
		MUZ-DM35VA																					•				
	H Series	MUZ-HJ25VA																									
		MUZ-HJ35VA																					•				
		MUZ-HJ50VA																									
		MUZ-HJ60VA																				•					
		MUZ-HJ71VA																				•					
	Compact	MUFZ-KJ25VE																									
	floor	MUFZ-KJ25VEHZ																									
		MUFZ-KJ35VE																	•								
		MUFZ-KJ35VEHZ																									
		MUFZ-KJ50VE																									
		MUFZ-KJ50VEHZ																				•					
S	SERIES	SUZ-KA25VA6						•																			
0)LI IILU	SUZ-KA35VA6						•																			
		SUZ-KA50VA6																				•					
		SUZ-KA60VA6																				•					
		SUZ-KA71VA6																									

Air Pro	tection	Guide	Dra	ain Soci	ket	р	Freeze- reventio Heater Drain P	n	Centra	lized Dra	ain Pan	M-NET Adapter	M-N Conv	IET erter	Control/ Service Tool	Step Interface 1 PC board w/attach- ment kit	Insul fo Accur	ation or nlator	High Static Fan Motor
PAC- SJ06 AG-E	PAC- SH63 AG-E	PAC- SH95 AG-E	PAC- SJ08 DS-E	SG60	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- SJ96 MA-E	PAC- SJ95 MA-E	PAC- SK52ST	PAC- IF012 B-E	MAC- 892 INS-E	MAC- 893 INS-E	PAC- SJ71 FM-E
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Optional Parts List <Outdoor>

		Option		D	istribut	ion Pip	oe		Bra	nch Pip	oe/Hea	der (J	oint)					Joint	Pipe					Liquid F	Refrigera	nt Dryer				
		Ориоп						For	In c	ase				116.29	-0.05	11. 2	-0.50	Unit	Unit	Unit		Unit	Unit							
				For Twi			Triple	Quad- ruple	of u	sing	Branch	Hea	ader	Unit a		Unit o		ø15.88 >	ø9.52 >	ø6.35 >	>	>	>	For pipe	For	For pipe	Air C	Outlet 0	auide	l
			1	(50:50))	(33:3	3:33)	(25:25: 25:25)		anch xes	Pipe	^						Pipe	Pipe	Pipe	Pipe	Pipe	Pipe		ø9.52					1
			-						Flare	Brazing	CNAV	CNAV	CNAV	DAG	DAG	DAG	DAG	_	0.08 טוש	ø9.52	Flare		0.08 ש	DAG	DAG	DAG	MAG	MAG	MAG	l
١,	.444 1 1.414			MSDD- 50TR2-E			MSDT-		MSDD-	MSDD-	CMY- Y62-	CMY- Y64-	CMY- Y68-	SG72	PAC- SG87	PAC- SG73	SG88	PAC- SG75	PAC-	PAC-	MAC-	MAC-	MAC-				MAC- 889	MAC- 881	MAC- 882	
	ıtdoor Unit		JUIN-E	JUINZ-E	JUWIN-E	IIIN-E	IIInz-E	······································	50AR-E	50BR-E	G-E	G-E	G-E	RJ-E	RJ-E	RJ-E	RJ-E	RJ-E	RJ-E	493 PI	JP-E	A455 JP-E	JP-E		DR-E	DR-E	SG	SG	SG	
	Power Inverter	PUZ-ZM35VKA PUZ-ZM50VKA												•	•									•						
	(R32)	PUZ-ZM60VHA													•										•					
		PUZ-ZM71VHA		•													•								•					
		PUZ-ZM100VKA															•								•					
		PUZ-ZM100YKA PUZ-ZM125VKA		•				•									•								•					
		PUZ-ZM125YKA		•				•									•								•					
		PUZ-ZM140VKA		•			•	•									•								•					
	Power	PUZ-ZM140YKA PUHZ-ZRP35VKA2		•			•	•									•							•	•					
	Inverter	PUHZ-ZRP50VKA2												•										•						
	(R410A)	PUHZ-ZRP60VHA2														•		•							•					
		PUHZ-ZRP71VHA2 PUHZ-ZRP100VKA3	•													•		•							•					-
		PUHZ-ZRP100VKA3	•			•										•		•							•					
		PUHZ-ZRP125VKA3	•			•		•								•		•							•					
(0		PUHZ-ZRP125YKA3 PUHZ-ZRP140VKA3	•			•		•								•		•							•					
		PUHZ-ZRP140YKA3	•			•		•								•		•							•					
SERIES		PUHZ-ZRP200YKA3			•	•		•								•									•					
Д	Otarad	PUHZ-ZRP250YKA3 PUHZ-P100VKA		-	•	•		•																		•				-
	Standard Inverter	PUHZ-P125VKA	•																						0					
	(R410A)	PUHZ-P140VKA	•			•																			•					
		PUHZ-P100YKA	•																						•					
		PUHZ-P125YKA PUHZ-P140YKA	•			•																			•					
		PUHZ-P200YKA3			•	•		•																	•					
		PUHZ-P250YKA3			•	•		•																		•				
	XZ SERIES 32)	MXZ-2F33VF MXZ-2F42VF																									•	•		
(,)L)	MXZ-2F53VF(H)																										•		
		MXZ-3F54VF																			•									
		MXZ-3F68VF MXZ-4F72VF																	•	•	•	•	•							
N	XZ SERIES	MXZ-2D33VA																									•	•		
	410A)	MXZ-2D42VA2																									•	•		
		MXZ-2D53VA(H)2 MXZ-2E53VAHZ																			•						•	•		-
		MXZ-3E54VA		L																	•									
		MXZ-3E68VA																	•	•	•									
		MXZ-4E72VA MXZ-4E83VA																	•	•	•	•	•							
		MXZ-4E83VAHZ																	•	•	•	•	•							
		MXZ-5E102VA																	•	•	•	•	•							
		MXZ-6D122VA2 MXZ-2DM40VA																	•	•	•	•	•					•		
		MXZ-3DM50VA																			•									
	IMY Series	PUMY-SP112VKM(-BS)									•	•	•																	
(F	410A)	PUMY-SP112YKM(-BS) PUMY-SP125VKM(-BS)									•	•	0																	
		PUMY-SP125YKM(-BS)									•	•	•																	
		PUMY-SP140VKM(-BS)									•	•	•																	
		PUMY-SP140YKM(-BS) PUMY-P112VKM4(-BS)							•	•	•	•	•			•		•												
		PUMY-P112YKM(E)4(-BS)							•	•	•	•	•			•		•												
		PUMY-P125VKM4(-BS)							•	•	•	•	•			•		•												
		PUMY-P125YKM(E)4(-BS) PUMY-P140VKM4(-BS)							•	•	•	•	•			•		0												-
		PUMY-P140YKM(E)4(-BS)							•	•	•	•	•			•		•												
		PUMY-P200YKM2(-BS)							•	•	•	•	•			•		•												
	WERFUL	PUHZ-SHW112VHA PUHZ-SHW112YHA	•																						•					
Н	ATING	PUHZ-SHW112YHA PUHZ-SHW140YHA	•																						•					
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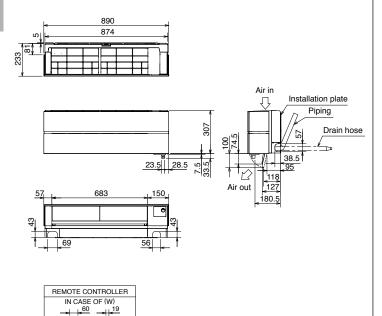
	Branch Box	Reactor Box		Diff	erent Diameter	Joint			Different Diar	neter Joint For E	Brazing Model	
	Outer Cover	Tieactor box	ø9.52>ø12.7	ø12.7>ø9.52	ø12.7>ø15.88	ø6.35>ø9.52	ø9.52>ø15.88	ø9.52>ø12.7	ø12.7>ø9.52	ø12.7>ø15.88	ø6.35>ø9.52	ø9.52>ø15.88
	PAC- AK350CVR-E	PAC- RB01BC	MAC- A454JP	MAC- A455JP	MAC- A456JP	PAC- 493PI	PAC- SG76RJ-E	PAC- SG78RJB-E	PAC- SG79RJB-E	PAC- SG80RJB-E	PAC- SG77RJB-E	PAC- SG76RJB-E
PAC-MK33BC (Flare)	•	•	•	•	•	•	•					
PAC-MK53BC (Flare)	•	•	•	•	•	•	•					
PAC-MK33BCB (Brazing)	•	•						•	•	•	•	•
PAC-MK53BCB (Brazing)	•	•						•	•	•	•	•

		A	Air Outl	et Gui	de		Air Pro	otection	n Guide	Dra	ain Soc	ket		Freez	e-preve (for Dra	ention I	Heater			entraliz rain Pa		M-NET Adapter	M-N Conv		Control/ Service Tool	Ste Inter 1 PC w/ati mer	face board tach-	Insul fo Accur	lation or mlator	Con- nection Kit	High Static Fan Motor
	856	MAC- 886 SG-E	883	SJ07	PAC- SG59 SG-E	PAC- SH96 SG	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- 646 BH-E	PAC- SJ10 BH-E	PAC- SJ20 BH-E	PAC- SG63 DP-E	PAC- SG64 DP-E	PAC- SH97 DP-E	PAC- IF01 MNT-E	PAC- SJ96 MA-E	PAC- SJ95 MA-E		PAC- IF012 B-E	PAC-(S) IF013 B-E	892	MAC- 893 INS-E	PAC- LV11 M-J	PAC- SJ71 FM-E
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Unit: mm

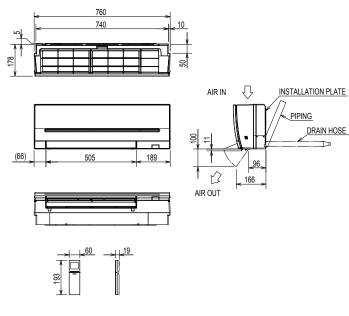
$\label{eq:msz-ln25vg} \begin{array}{ll} \text{MSZ-LN25VG(W)(V)(R)(B)} & \text{MSZ-LN35VG(W)(V)(R)(B)} \\ \text{MSZ-LN50VG(W)(V)(R)(B)} & \text{MSZ-LN60VG(W)(V)(R)(B)} \end{array}$

INDOOR UNIT



MSZ-AP15VF MSZ-AP20VF

INDOOR UNIT

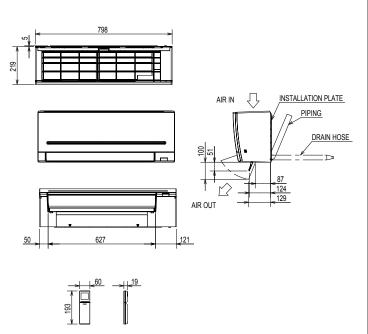


MSZ-AP25VG MSZ-AP35VG MSZ-AP42VG MSZ-AP50VG MSZ-AP25VGK MSZ-AP35VGK MSZ-AP42VGK MSZ-AP50VGK

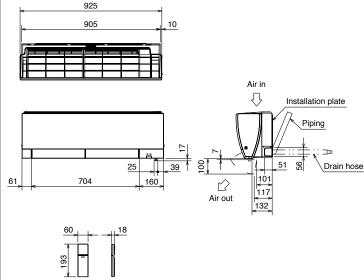
INDOOR UNIT

193

193



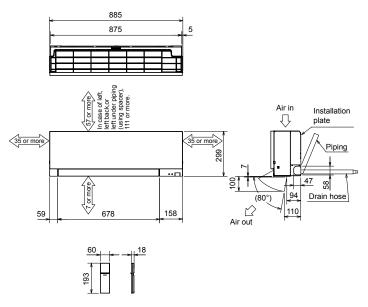
MSZ-FH25VE2 MSZ-FH35VE2 MSZ-FH50VE2



Unit: mm

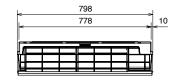
MSZ-EF18VE3(W)(B)(S) MSZ-EF22VE3(W)(B)(S) MSZ-EF25VE3(W)(B)(S) MSZ-EF35VE3(W)(B)(S) MSZ-EF50VE3(W)(B)(S)

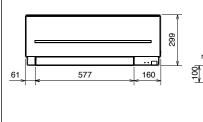
INDOOR UNIT

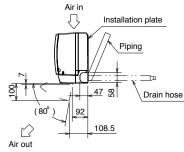


MSZ-SF25VE3 MSZ-SF35VE3 MSZ-SF42VE3 MSZ-SF50VE3

INDOOR UNIT

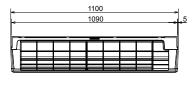


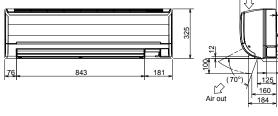




MSZ-GF60VE2 MSZ-GF71VE2

INDOOR UNIT





238

Installation plate

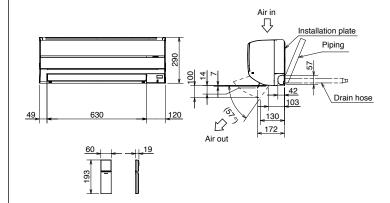
.65 ო

Drain hose



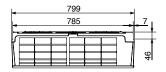
MSZ-WN25VA MSZ-WN35VA

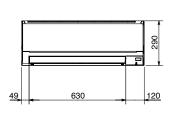


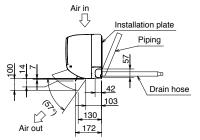


MSZ-DM25VA MSZ-DM35VA

INDOOR UNIT





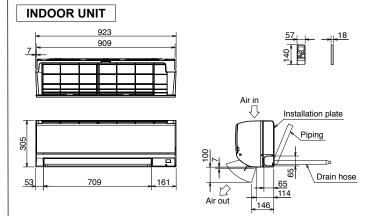




MSZ-HJ25VA MSZ-HJ35VA MSZ-HJ50VA

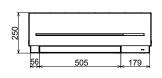
INDOOR UNIT 785 Air in Installation plate Piping Drain hose 120 130 Air out

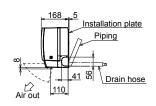
MSZ-HJ60VA MSZ-HJ71VA



MSZ-SF15VA MSZ-SF20VA INDOOR UNIT

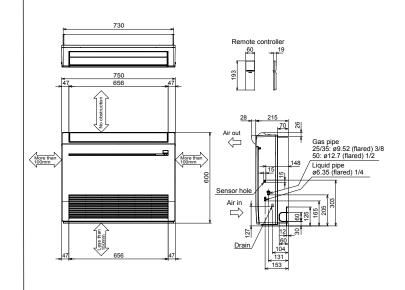








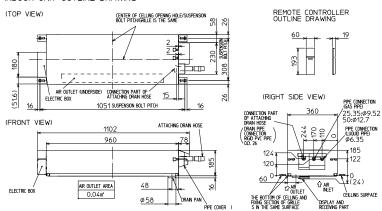
MFZ-KJ25VE2 MFZ-KJ35VE2 MFZ-KJ50VE2

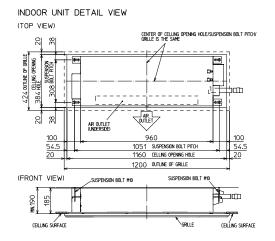


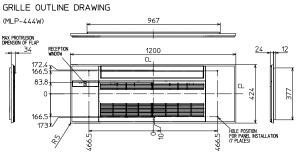
MLZ-KP25VF MLZ-KP35VF MLZ-KP50VF

INDOOR UNIT

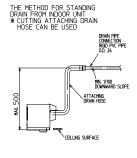
INDOOR UNIT OUTLINE DRAWING







		KP25/35VF	KP50VF
EXTENSION	LIQUID PIPE 0.D.	Ø6	.35
PIPE	GAS PIPE 0.D.	ø9.52	ø12.7
CONNECTIONS	LIQUID PIPE	FLARED CO Ø6	
OF PIPE	GAS PIPE	FLARED CONNECTION Ø9.52	Flared connection Ø12.7
DRAIN HOSE		HEAT INSULATER O.D. CONNECT Ø32 Ø25	
DRAIN PIPE CO	NNECTION	RIGID PVC PIPE	0.D. 26



 MUZ-LN25VG
 MUZ-LN25VGHZ

 MUZ-LN35VG
 MUZ-LN35VGHZ

 MUZ-FH25VE
 MUZ-FH35VE

 MUZ-FH35VEHZ
 MUZ-FH35VEHZ

 MUZ-EF25VEH
 MUZ-EF25VEH

 MUZ-EF35VEH
 MUZ-EF35VEH

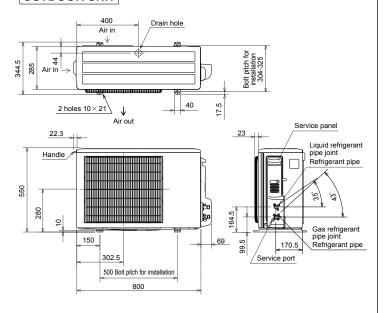
MUZ-EF42VE MUZ-SF25VE MUZ-SF35VEH

MUZ-SF25VEH MUZ-SF35VE MUZ-SF42VE MUZ-SF42VEH

MUZ-HJ50VA

MUFZ-KJ25VE MUFZ-KJ35VE MUFZ-KJ35VEHZ

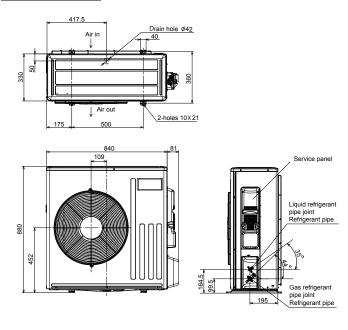
OUTDOOR UNIT



MUZ-LN50VGHZ MUZ-LN60VG MUZ-FH50VE MUZ-FH50VEHZ

MUZ-EF50VE

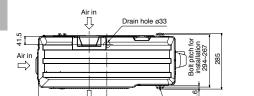
MUZ-SF50VE MUZ-SF50VEH
MUZ-GF60VE MUZ-GF71VE
MUZ-HJ60VA MUZ-HJ71VA
MUFZ-KJ50VE MUFZ-KJ50VEHZ

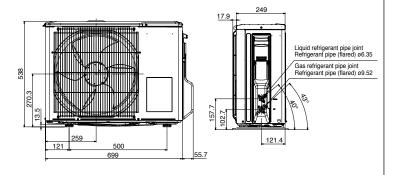


Unit: mm

- Unit: mm

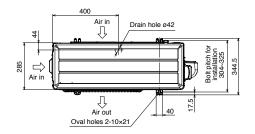
MUZ-WN25VA MUZ-WN35VA MUZ-DM25VA MUZ-DM35VA MUZ-HJ25VA MUZ-HJ35VA OUTDOOR UNIT

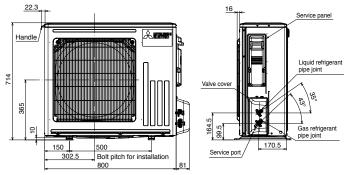




2-10.3×19.3 Oval hole

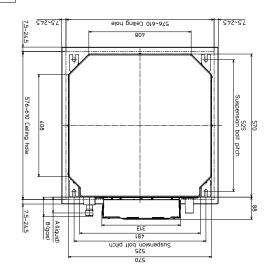
MUZ-LN50VG OUTDOOR UNIT





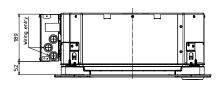
S SERIES

SLZ-M15FA SLZ-M25FA SLZ-M35FA SLZ-M50FA SLZ-M60FA

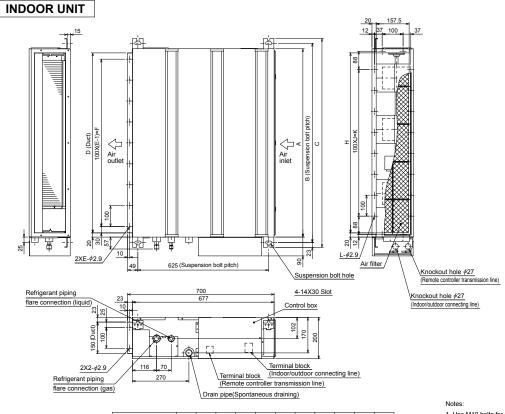


(2)	6 196	196	Drain pipe VP-25 connection Suspension bolt M10 or W3/8
133 69			188
5092 Suspension bott Iower edge	For remote controller terminal block	Terminal block	Ceiling & Q

Models	Refrigerent pipe (liquid)	② Refrigerent pipe (gas)	Α	В
SLZ-M15FA SLZ-M25FA SLZ-M35FA			63mm	72mm
SLZ-M50FA			63mm	78mm
SLZ-M60FA			63mm	78mm



SEZ-M25DA(L) SEZ-M35DA(L) SEZ-M50DA(L) SEZ-M60DA(L) SEZ-M71DA(L)

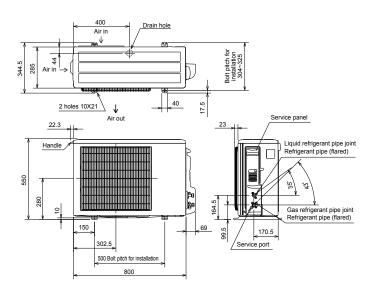


Model	Α	В	С	D	E	F	G	Н	J	K	L
SEZ-M25DAL/DA	700	752	798	660	7	600	800	660	5	500	16
SEZ-M35DAL/DA	000	952	998	860	9	800	1000	860	7	700	20
SEZ-M50DAL/DA	900	952	990	000	9	800	1000	000	,	/00	20
SEZ-M60DAL/DA	4400	4450	4400	4000	44	4000	1200	4000	9	000	24
SEZ-M71DAL/DA	1100	1152	1198	1060	11	1000	1200	1060	9	900	24

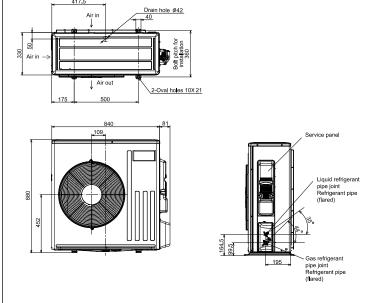
- 1. Use M10 bolts for suspension (purchase locally).
- Keep service space for maintenance at the bottom.
 This chart is based on the SEZ-M50DAL/DA, which has three fans.
- SEZ-M25, 35DAL/DA has two fans, and SEZ-M60, 71DAL/DA has four fans.

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

SUZ-KA25VA6 SUZ-KA35VA6 **OUTDOOR UNIT**

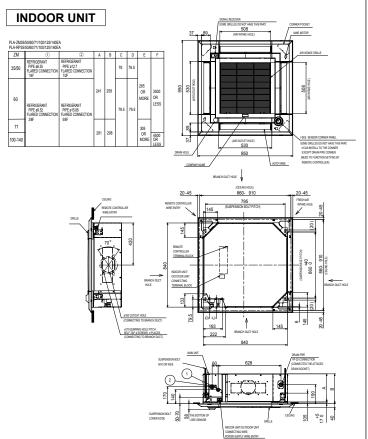


SUZ-KA50VA6 SUZ-KA60VA6 SUZ-KA71VA6 **OUTDOOR UNIT**

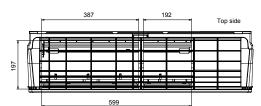


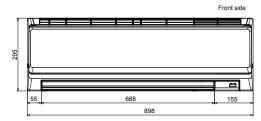
P SERIES Unit: mm

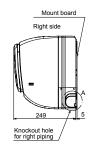
PLA-ZM35EA PLA-ZM50EA PLA-ZM60EA PLA-ZM71EA PLA-ZM100EA PLA-ZM125EA PLA-ZM140EA PLA-RP35EA PLA-RP50EA PLA-RP60EA PLA-RP71EA PLA-RP100EA PLA-RP125EA PLA-RP140EA



PKA-M35HA(L) PKA-M50HA(L) INDOOR UNIT

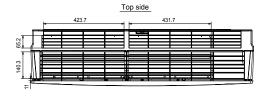


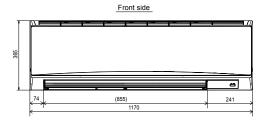


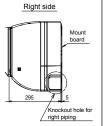


PKA-M60KA(L) PKA-M71KA(L) PKA-M100KA(L)

INDOOR UNIT

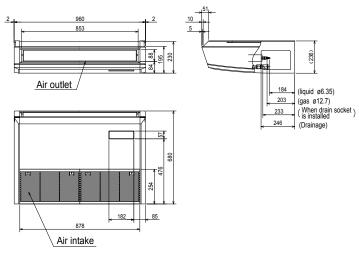






PCA-M35KA PCA-M50KA

INDOOR UNIT



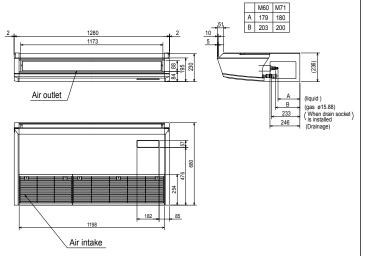
NOTES.

- 1.Use M10 or W3/8 screw for anchor bolt.
- 2.Please be sure when installing the drain pump (option parts), refrigerant pipe will be only upward.

Unit: mm

PCA-M60KA PCA-M71KA

INDOOR UNIT



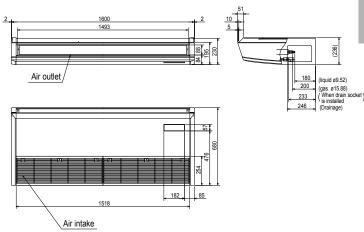
NOTES.

- 1.Use M10 or W3/8 screw for anchor bolt.
- 2.Please be sure when installing the drain pump (option parts), refrigerant pipe will be only upward.

Use the current nuts meeting the pipe size of the outdoor unit. Available pipe size

PCA-M100KA PCA-M125KA PCA-M140KA

INDOOR UNIT

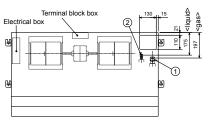


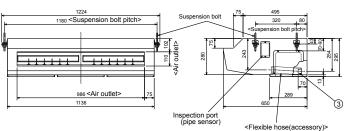
NOTES.

- 1.Use M10 or W3/8 screw for anchor bolt.
- 2.Please be sure when installing the drain pump (option parts),
- refrigerant pipe will be only upward.

PCA-RP71HAQ

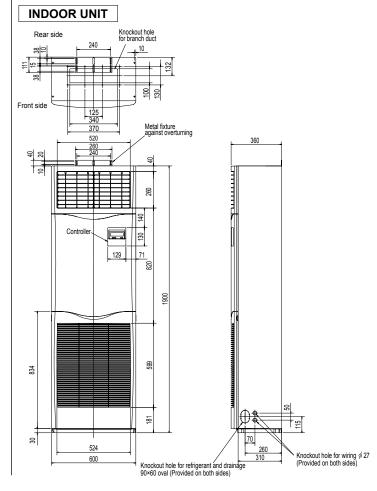
INDOOR UNIT



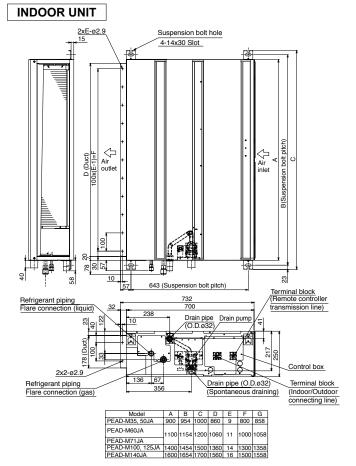


- ①Refrigerant pipe connection(gas pipe side/flared connection) ②Refrigerant pipe connection(liquid pipe side/flared connection) ③Flexible hose(accessory) —Drainage pipe connection

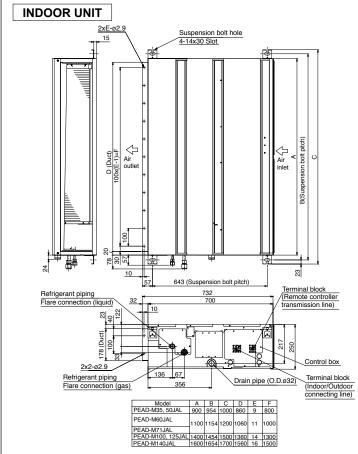
PSA-RP71KA PSA-RP100KA PSA-RP125KA PSA-RP140KA



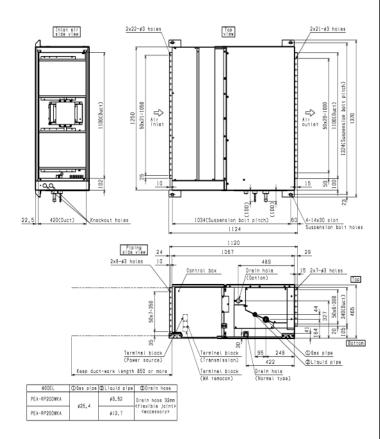
PEAD-M35JA PEAD-M50JA PEAD-M60JA PEAD-M71JA PEAD-M100JA PEAD-M125JA PEAD-M140JA



PEAD-M35JAL PEAD-M50JAL PEAD-M60JAL PEAD-M71JAL PEAD-M100JAL PEAD-M125JAL PEAD-M140JAL



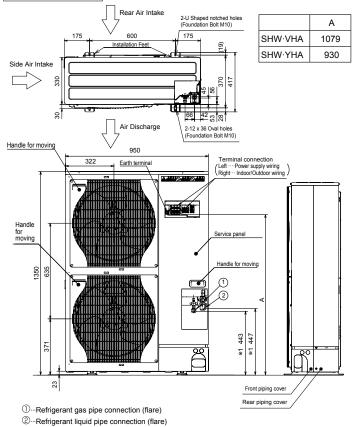
PEA-RP200WKA PEA-RP250WKA



Unit: mm

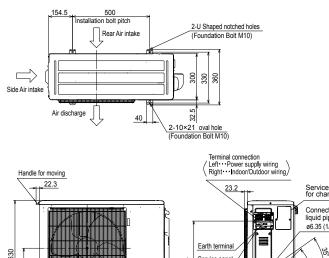
PUHZ-SHW112VHA PUHZ-SHW112YHA PUHZ-SHW140YHA

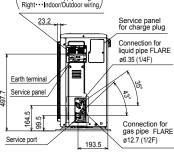
OUTDOOR UNIT



PUZ-ZM35VKA PUZ-ZM50VKA

OUTDOOR UNIT

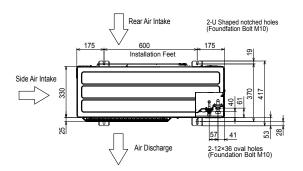


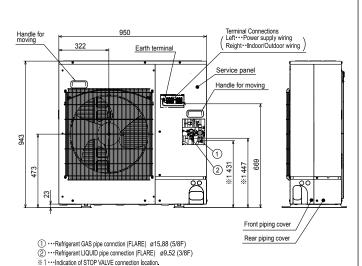


PUZ-ZM60VHA PUZ-ZM71VHA

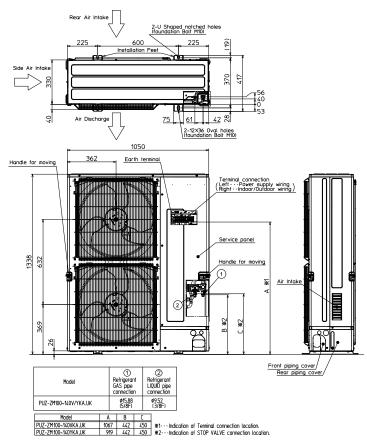
* ···Indicates stop valve connection location.

OUTDOOR UNIT



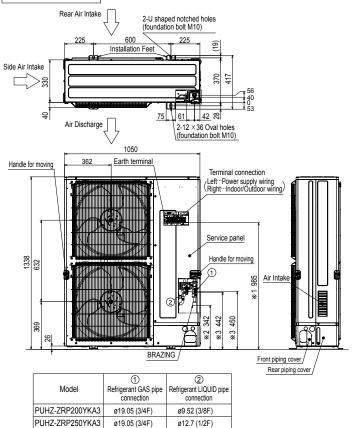


PUZ-ZM100VKA PUZ-ZM125VKA PUZ-ZM140VKA PUZ-ZM100YKA PUZ-ZM125YKA PUZ-ZM140YKA OUTDOOR UNIT



PUHZ-ZRP200YKA3 PUHZ-ZRP250YKA3

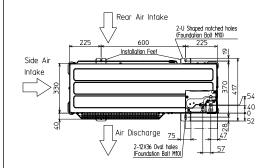
OUTDOOR UNIT

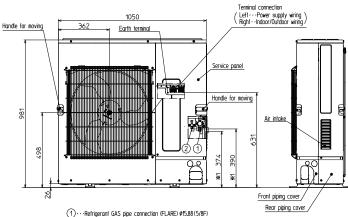


*1···Indication of Terminal connection location. *2···Refrigerant GAS pipe connection (BRAZING) O.Dø25.4. *3···Indication of STOP VALVE connection location.

PUHZ-P100VKA PUHZ-P100YKA PUHZ-P125VKA PUHZ-P125YKA PUHZ-P140VKA PUHZ-P140YKA

OUTDOOR UNIT

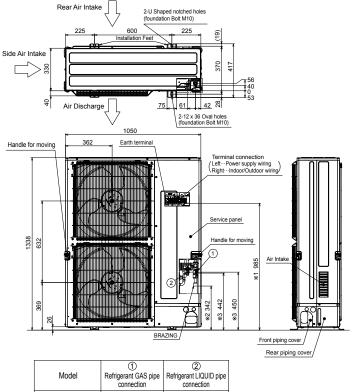




① · · · Refrigerant GAS pipe connection (FLARE) Ø15.88 (5/8F)
② · · · Refrigerant LIOUID pipe connection (FLARE) Ø9.52 (3/8F)

※1···Indication of STOP VALVE connection location.

PUHZ-P200YKA3 PUHZ-P250YKA3



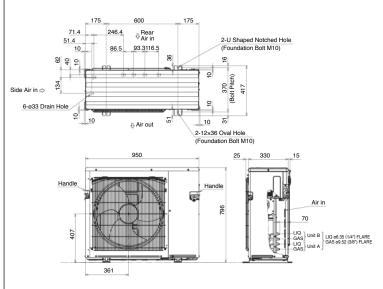
Model	(1) Refrigerant GAS pipe connection	(2) Refrigerant LIQUID pipe connection
PUHZ-P200YKA3	ø19.05 (3/4F)	ø9.52 (3/8F)
PUHZ-P250YKA3	ø19.05 (3/4F)	ø12.7 (1/2F)

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

MXZ-2D33VA MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2 MXZ-2DM40VA MXZ-2F33VF MXZ-2F42VF MXZ-2F53VF MXZ-2F53VFH OUTDOOR UNIT

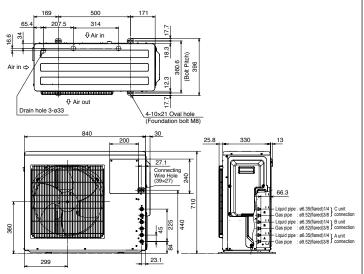
Air out Air in 22.3 Handle Liquid pie: e6.35 (flared) 1/4 } 8 unit Gas pipe: e6.55 (flared) 3/8 connection 23.302.5 302.5 302.5 800 800 69

MXZ-2E53VAHZ OUTDOOR UNIT

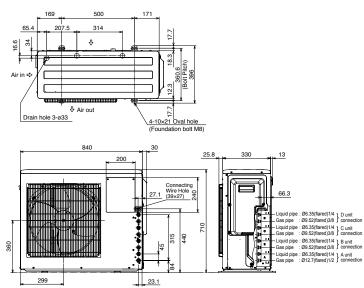


MXZ-3E54VA MXZ-3E68VA MXZ-3DM50VA MXZ-3F54VF MXZ-3F68VF

OUTDOOR UNIT

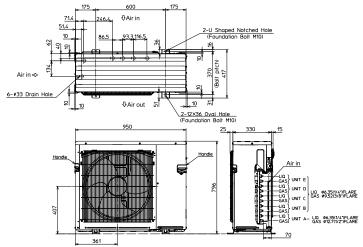


MXZ-4E72VA MXZ-4F72VF

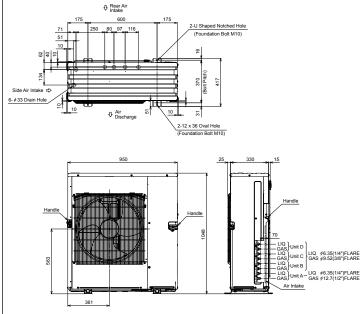


Unit: mm

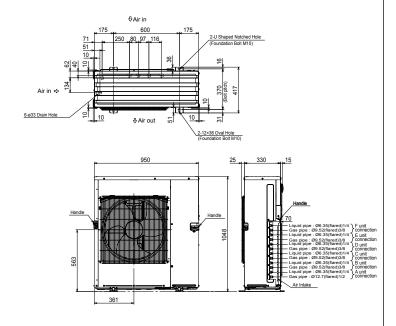
MXZ-4E83VA MXZ-5E102VA OUTDOOR UNIT



MXZ-4E83VAHZ OUTDOOR UNIT



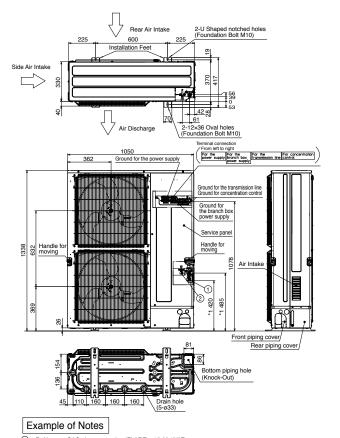
MXZ-6D122VA2



PUMY SERIES Unit: mm

PUMY-P112/125/140VKM4(-BS)

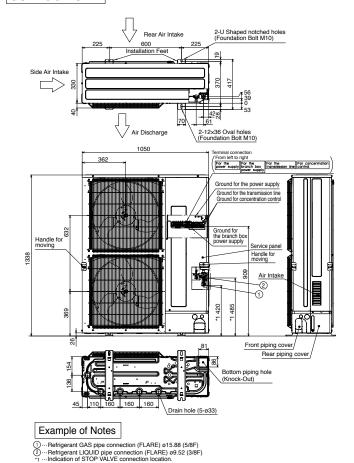
OUTDOOR UNIT



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

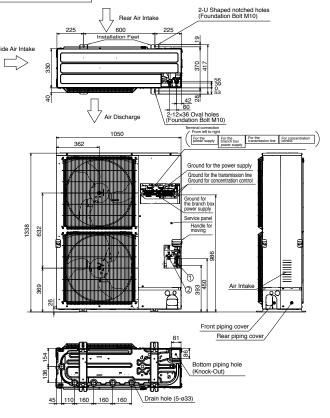
PUMY-P112/125/140YKM(E)4(-BS)

OUTDOOR UNIT



PUMY-P200YKM2(-BS)

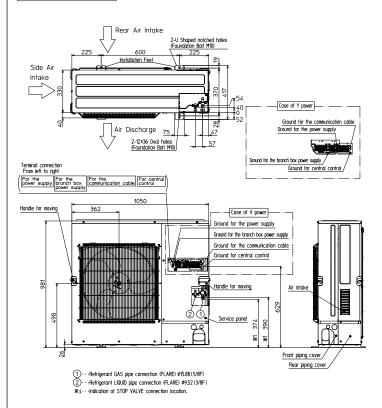
OUTDOOR UNIT



Example of Notes

- Hefrigerant GAS pipe connection (FLARE) ø19.05 (3/4F)
 Hefrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
 Indication of STOP VALVE connection location.

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

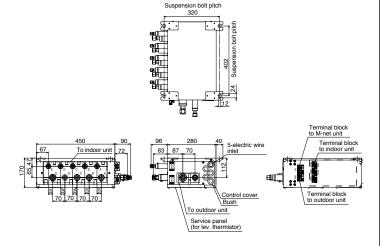


Terminal block to outdoor unit

PAC-MK53BC

Suspension bolt: W3/W8 (M10)

Branch box



Suspension bolt : W3/8(M10)

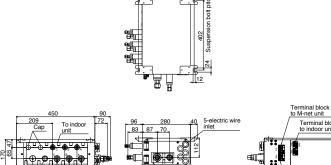
Refrigerant pipe flared connection

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

PAC-MK33BC

Suspension bolt: W3/W8 (M10)

Branch box



Control cover

Bush

Service panel (for lev. thermistor)

320

Suspension bolt : W3/8(M10)

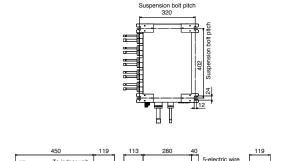
Refrigerant pipe flared connection

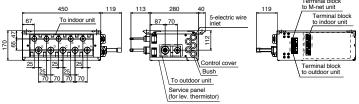
	Α	В	С			To outdoor unit		
Liquid pipe	1/4F	1/4F	1/4F			3/8F		
Gas pipe	3/8F	3/8F	3/8F			5/8F		

PAC-MK53BCB

Suspension bolt: W3/W8 (M10)

Branch box





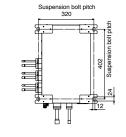
Suspension bolt : W3/8(M10)

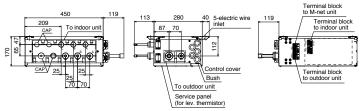
Refrigerant pipe brazed connection								
	Α	В	С	D	E	To outdoor unit		
Liquid pipe	ø6.35	ø6.35	ø6.35	ø6.35	ø6.35	ø9.52		
Gas pipe	a9 52	a9 52	a9 52	a9 52	a12 7	ø15.88		

PAC-MK33BCB

Suspension bolt: W3/W8 (M10)

Branch box





Suspension bolt : W3/8(M10)

Refrigerant pipe brazed connection

rionigorani pipo brazoa connocion									
	Α	В	С			To outdoor unit			
Liquid pipe	ø6.35	ø6.35	ø6.35			ø9.52			
Gas nine	aQ 52	aQ 52	aQ 52			ø15.88			

Piping Installation

M SERIES

Single type

Operation	Class	Maximum Piping Length (m)	Maximum Height Difference (m)	Maximum Number of Bends
Series	<outdoor unit=""></outdoor>	Total length (A)	Outdoor unit - Indoor unit (H)	Total number
MSZ-L	25 / 35	20	12	10
	50	20	12	10
	60	30	15	10
/ISZ-A	25 / 35 /42	20	12	10
	50	20		
NSZ-F NFZ	25 / 35	20	12	10
MFZ	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
/ISZ-W /ISZ-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
Series	<outdoor unit=""></outdoor>	Total length (A)	Outdoor unit - Indoor unit (H)	Total number
ZUBADAN (PUHZ-SHW)	80 / 112 / 140	75	30	15
Eco-conscious Power Inverter (PUZ-ZM)	35 / 50	50	30	15
	60 / 71	55	30	15
	100 / 125 / 140	100	30	15
Power Inverter (PUHZ-ZRP)	35 / 50 / 60 / 71	50	30	15
	100 / 125 / 140	75	30	15
	200 / 250	100	30	15
Standard Inverter (PUHZ-P & SUZ)	25 / 35	20	12	10
	50 / 60 / 71	30	30	10
	100 / 125 / 140	50	30	15
	200 / 250	70	30	15

Twin type

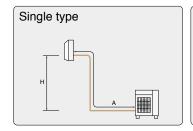
		Ma	ximum Piping Length	(m)	Maximum Heigl	Maximum Number of Bends	
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C	Pipe length difference from distribution pipe IB-CI	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number
ZUBADAN (PUHZ-SHW)	80 / 112 / 140	75	8	20	30	1	15
Eco-conscious Power Inverter (PUZ-ZM)	71	55	8	20	30	1	15
	100 / 125 / 140	100	8	20	30	1	15
Power Inverter (PUHZ-ZRP)	71	50	8	20	30	1	15
	100 / 125 / 140	75	8	20	30	1	15
	200 / 250	100	8	30	30	1	15
Standard Inverter (PUHZ-P)	100 / 125 / 140	50	8	20	30	1	15
	200 / 250	70	8	30	30	1	15

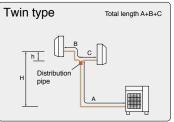
Triple type

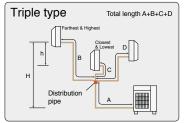
		Ma	ximum Piping Length	n Piping Length (m)		Maximum Height Difference (m)		
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C+D	Pipe length difference from distribution pipe IB-Cl	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number	
Eco-conscious Power Inverter (PUZ-ZM)	140	100	8	20	30	1	15	
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	

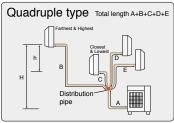
Quadruple type

			ximum Piping Length	(m)	Maximum Heigh	Maximum Number of Bends	
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C+D+E	Pipe length difference from distribution pipe 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

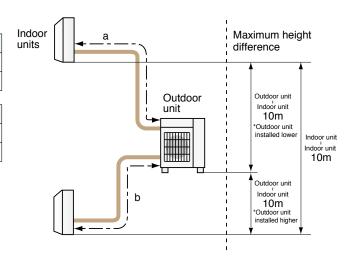
MXZ-2D33VA, MXZ-2F33VF

Maximum Piping Length						
Outdoor unit - Indoor unit (a,b)	15m					
Total length (a+b)	20m					

Maximum Number of Bends					
Outdoor unit - Indoor unit (a,b)	15				
Total number (a+b)	20				

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

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



MXZ-2D42VA2. MXZ-2F42VF

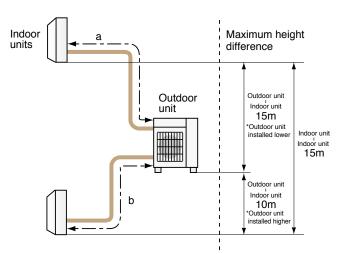
1VIX Z-2D42 V X Z, 1VIX Z-21 42 V I	
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	20m
Total length (a+b)	30m

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

MXZ-2D53VA(H)2, MXZ-2E53VAHZ, MXZ-2F53VF(H)

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

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



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

MXZ-3E54VA, MXZ-3F54VF

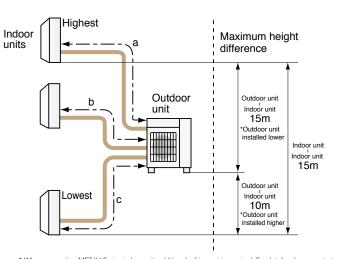
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c)	25m
Total length (a+b+c)	50m

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

MXZ-3F68VA MXZ-3F68VF

WAZ-3LOOVA, WAZ-31 OOVI		
Maximum Piping Length		
Outdoor unit - Indoor unit (a,b,c)	25m	
Total length (a+b+c)	60m	

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



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

MXZ SERIES

MXZ-4E72VA, MXZ-4F72VF

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

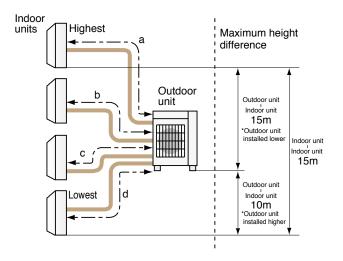
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	60

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

MXZ-4E83VA, MXZ-4E83VAHZ

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

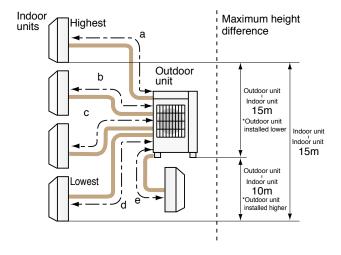
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	70



MXZ-5E102VA

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

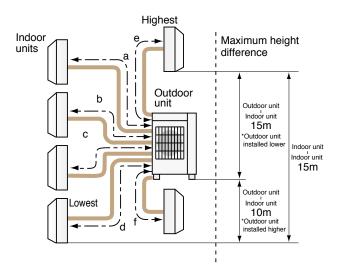
Maximum Number of Bends		
Outdoor unit - Indoor unit (a,b,c,d,e) 25		
Total number (a+b+c+d+e) 80		



MXZ-6D122VA2

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

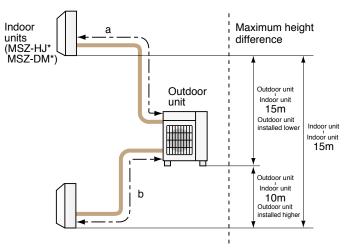
Maximum Number of Bends		
Outdoor unit - Indoor unit (a,b,c,d,e,f) 25		
Total number (a+b+c+d+e+f) 80		



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	

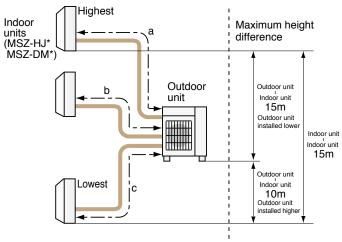


*Only MSZ-HJ and DM model is connectable.

MXZ-3DM50VA

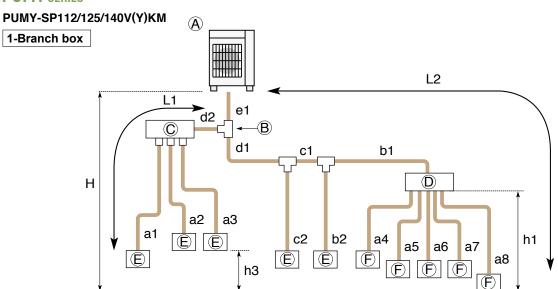
Maximum Piping Length		
Outdoor unit - Indoor unit (a,b,c)	25m	
Total length (a+b+c)	50m	

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.

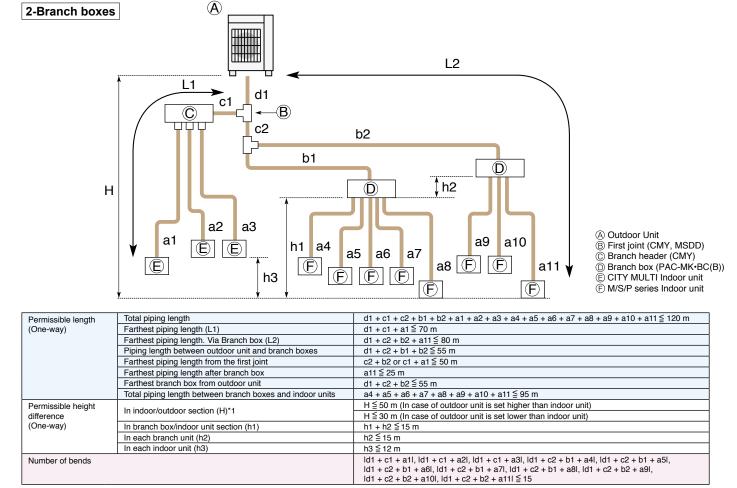
PUMY SERIES



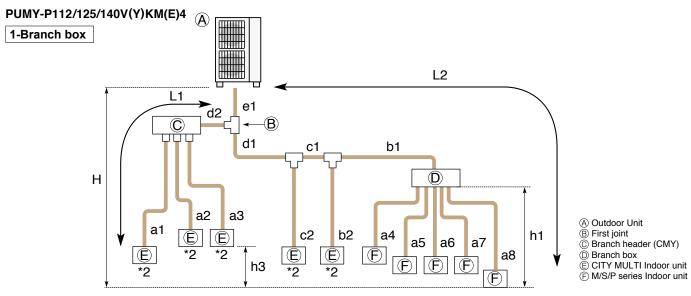
- (A) Outdoor Unit
- B First joint (CMY, MSDD)
- © Branch header (CMY)
- Branch box (PAC-MK•BC(B))
- © CITY MULTI Indoor unit

Permissible length	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 ≦ 120 m
(One-way)	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2 ≦ 70 m
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8 ≦ 50 m
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1 ≦ 55 m
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2 ≤ 50 m
	Farthest piping length after branch box	a8≦25 m
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 95 m
Permissible height difference (One-way)	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
		H ≦ 30 m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1≦15 m
	In each indoor unit (h3)	h3≦12 m
Number of bends		le1 + d2 + a1l, le1 + d2 + a2l, le1 + d2 + a3l, le1 + d1 + c2l, le1 + d1 + c1 + b2l,
		le1 + d1 + c1 + b1 + a4l, le1 + d1 + c1 + b1 + a5l, le1 + d1 + c1 + b1 + a6l,
		le1 + d1 + c1 + b1 + a7l, le1 + d1 + c1 + b1 + a8l ≦ 15

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

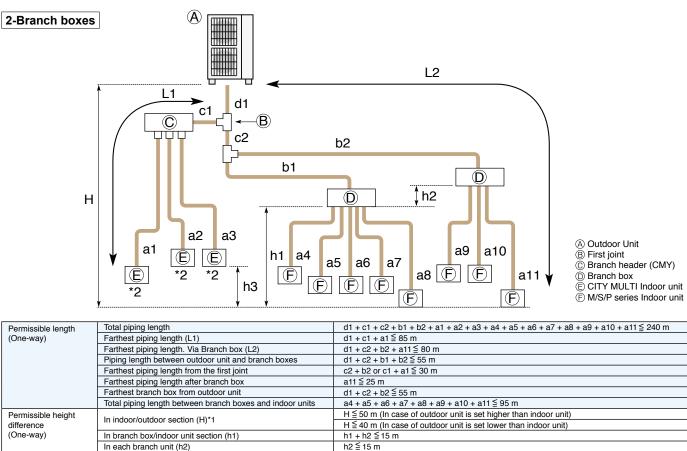


^{*1:} Branch box should be placed within the level between the outdoor unit and indoor units.



Permissible length (One-way)	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 ≦ 300 m
	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2 ≦ 85 m
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8 ≦ 80 m
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1 ≦ 55 m
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2 ≦ 30 m
	Farthest piping length after branch box	a8≦ 25 m
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 95 m
Permissible height	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
difference (One-way)		H ≤ 40 m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1 ≦ 15 m
	In each indoor unit (h3)	h3≦12 m
Number of bends		le1 + d2 + a1l, le1 + d2 + a2l, le1 + d2 + a3l, le1 + d1 + c2l, le1 + d1 + c1 + b2l, le1 + d1 + c1 + b1 + a4l, le1 + d1 + c1 + b1 + a5l, le1 + d1 + c1 + b1 + a6l,
		le1 + d1 + c1 + b1 + a7l, le1 + d1 + c1 + b1 + a8l ≤ 15

- *1: Branch box should be placed within the level between the outdoor unit and indoor units.
 *2: PKFY and PFFY Series cannot be connected.



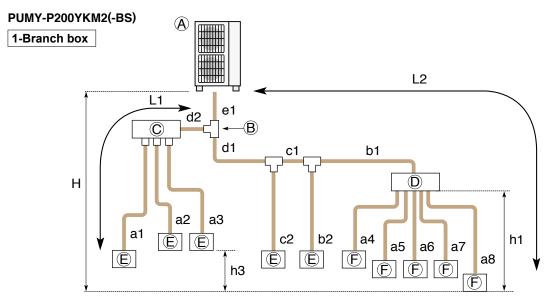
h3 ≦ 12 m

 $\begin{array}{l} | d1+c1+a1|, | d1+c1+a2|, | d1+c1+a3|, | d1+c2+b1+a4|, | d1+c2+b1+a5|, \\ | d1+c2+b1+a6|, | d1+c2+b1+a7|, | d1+c2+b1+a8|, | d1+c2+b2+a9|, \\ | d1+c2+b2+a10|, | d1+c2+b2+a11| \leqq 15 \\ \end{array}$

*1: Branch box should be placed within the level between the outdoor unit and indoor units.
*2: PKFY and PFFY Series cannot be connected.

In each indoor unit (h3)

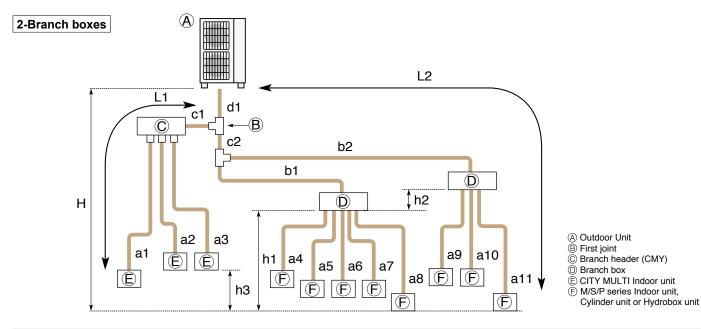
Number of bends



- A Outdoor UnitB First joint
- © Branch header (CMY)
 © Branch box
- © CITY MULTI Indoor unit
- M/S/P series Indoor unit,
 Cylinder unit or Hydrobox unit

Permissible length (One-way)	Total piping length	$e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \le 150 \text{ m}$
	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2 ≤ 80 m
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8 ≦ 80 m
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1 ≦ 55 m
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2 ≦ 30 m
	Farthest piping length after branch box	a8 ≦ 25 m
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 95 m
Permissible height 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 ≦ 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,
		$le1 + d1 + c1 + b1 + a7l$, $le1 + d1 + c1 + b1 + a8l \le 15$

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



Permissible length	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 150 \text{ m}$
(One-way)	Farthest piping length (L1)	d1 + c1 + a1 ≦ 80 m
	Farthest piping length. Via Branch box (L2)	d1 + c2 + b2 + a11 ≦ 80 m
	Piping length between outdoor unit and branch boxes	d1 + c2 + b1 + b2 ≦ 55 m
	Farthest piping length from the first joint	c2 + b2 or c1 + a1 ≦ 30 m
	Farthest piping length after branch box	a11 ≦ 25 m
	Farthest branch box from outdoor unit	d1 + c2 + b2 ≦ 55 m
	Total piping length between branch boxes and indoor units	$a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 95 \text{ m}$
Permissible height	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
difference		H ≤ 40 m (In case of outdoor unit is set lower than indoor unit)
(One-way)	In branch box/indoor unit section (h1)	h1 + h2 ≦ 15 m
	In each branch unit (h2)	h2 ≦ 15 m
	In each indoor unit (h3)	h3 ≦ 12 m
Number of bends		ld1 + c1 + a1l, ld1 + c1 + a2l, ld1 + c1 + a3l, ld1 + c2 + b1 + a4l, ld1 + c2 + b1 + a5l,
		ld1 + c2 + b1 + a6l, ld1 + c2 + b1 + a7l, ld1 + c2 + b1 + a8l, ld1 + c2 + b2 + a9l,
		$ d1 + c2 + b2 + a10 $, $ d1 + c2 + b2 + a11 \le 15$

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

Explanation of Terminology

Maximum piping length:

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

Total length:

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

Outdoor Unit - Indoor Unit:

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

Pipe length difference from distribution pipe:

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

Indoor Unit - Distribution Pipe:

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

Maximum height difference:

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

Outdoor unit - Indoor unit:

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

Indoor unit - Indoor unit

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

Maximum number of bends:

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

Total number:

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

Outdoor unit - Indoor unit:

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

Conditions for specifications

Temperature conditions are based on JIS B8616.

Cooling	Indoor	27°C DB, 19°C WB
Cooling	Outdoor	35°C DB, 24°C WB
Heating	Indoor	20°C DB
rieating	Outdoor	7°C DB, 6°C WB

Refrigerant piping length; 5m

The figures for total input are based on the following voltages.

Series	Indoor unit	Outdoor unit	
M Series S Series P Series (except for PEA) MXZ Series POWERFUL HEATING Series	-	VG,VE,VA,VHA,VKA:230V/Single phase/50Hz YA,YHA,YKA:400V/Three phase/50Hz	
PEA Series	400V/Three phase/50Hz	400V/Three phase/50Hz	

Sound pressure level

- The sound pressure measurement is conducted in an anechoic chamber.
- The actual sound level depends on the distance from the unit and the acoustic environment.

How to read a model name

1) M & S Series

M	M: M Series S: S Series
S	"S"= Wall-mounted , "F"= Compact floor-standing , "E"= Compact ceiling-concealed ,
	"L"= 4- or 1-way cassette , "U"= Outdoor unit
Z	"Z"= Inverter heat pump , "H"= Fixed-speed heat pump , "blank"= Cooling only
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	"E"= R410A with new A control & ErP correspondance, "G"=R32 with new A control
	"HZ"= Hyper Heating model , "H"= Anti-freeze heater equipped model ,
HZ	"S"= Silver indoor unit , "W"= White/Natural White indoor unit , "B"= Black/Onyx Black indoor unit ,
	"V"= Pearl White indoor unit , "R"= Ruby Red indoor unit

2) P Series

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
Z	"Z"= Inverter
_	

ZM/M/ZRP/RP/P	"ZM"= R32 Eco-conscious Power Inverter , "M"= R32 &R410A		
	"ZRP"/"RP"= R410A & cleaning-free pipe reuse , "P"=R410A		
SHW	"SH"= Powerful heating ZUBADAN, "W"= can be used as air to water application		
71	Rated cooling capacity (kW base)		
V	"V"= 230V / Single phase / 50Hz , "Y"= 400V / Three phase / 50Hz		
Н	Generation		
Α	"A"= A control		
	·		

3) MXZ Series

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

Refrigerant Amount

M/S/P/Multi/Zubadan/ATW

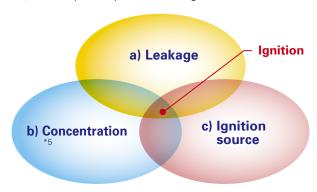
		Refrigerant		t Pre-charged quantity		Max. added quantity	
	Model Name		GWP	Weight	CO ₂ equivalent	Weight	CO ₂ equivalent
				[kg]	[t]	[kg]	[t]
	MUZ-LN25VG	R32	675	1.00	0.68	0.26	0.18
	MUZ-LN35VG MUZ-LN50VG	R32	675 675	1.00	0.68	0.26	0.18
	MUZ-LN60VG	R32	675	1.45	0.83	0.26	0.32
	MUZ-LN25VGHZ	R32	675	1.00	0.68	0.26	0.18
	MUZ-LN35VGHZ	R32	675	1.00	0.68	0.26	0.18
	MUZ-LN50VGHZ	R32	675	1.45	0.98	0.46	0.32
	MUZ-AP25VG	R32	675	0.55	0.37	0.26	0.18
	MUZ-AP35VG	R32	675	0.55	0.37	0.26	0.18
	MUZ-AP42VG	R32	675	0.70	0.47	0.26	0.18
	MUZ-AP50VG MUZ-AP25VGH	R32	675 675	1.00 0.55	0.68	0.26	0.18
	MUZ-AP35VGH	R32	675	0.55	0.37	0.26	0.18
	MUZ-AP42VGH	R32	675	0.70	0.47	0.26	0.18
	MUZ-AP50VGH	R32	675	1.00	0.68	0.26	0.18
	MUZ-FH25VE	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-FH35VE	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-FH50VE	R410A	2088	1.55	3.24	0.46	0.97
	MUZ-FH25VEHZ	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-FH35VEHZ	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-FH50VEHZ	R410A R410A	2088	1.55 0.8	3.24 1.68	0.46	0.97
	MUZ-EF25VE(H) MUZ-EF35VE(H)	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-EF42VE	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-EF50VE	R410A	2088	1.45	3.03	0.46	0.97
	MUZ-SF25VE(H)	R410A	2088	0.7	1.47	0.39	0.82
	MUZ-SF35VE(H)	R410A	2088	0.8	1.68	0.39	0.82
	MUZ-SF42VE(H)	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-SF50VE(H)	R410A	2088	1.55	3.24	0.46	0.97
	MUZ-GF60VE	R410A	2088	1.55	3.24	0.4	0.84
	MUZ-GF71VE MUZ-WN25VA	R410A R410A	2088	1.9 0.7	3.97 1.47	0.26	2.30 0.55
M-Series	MUZ-WN35VA	R410A	2088	0.7	1.47	0.26	0.55
00.100	MUZ-DM25VA	R410A	2088	0.7	1.47	0.26	0.55
	MUZ-DM35VA	R410A	2088	0.72	1.51	0.26	0.55
	MUZ-HJ25VA	R410A	2088	0.7	1.47	0.26	0.55
	MUZ-HJ35VA	R410A	2088	0.72	1.51	0.26	0.55
	MUZ-HJ50VA	R410A	2088	1.15	2.41	0.26	0.55
	MUZ-HJ60VA	R410A	2088	1.8	3.76	0.46	0.97
	MUZ-HJ71VA	R410A	2088	1.8	3.76	0.46	0.97
	MUFZ-KJ25VE MUFZ-KJ35VE	R410A R410A	2088	1.1	2.30	0.39	0.82
	MUFZ-KJ50VE	R410A	2088	1.5	3.14	0.46	0.97
	MUFZ-KJ25VEHZ	R410A	2088	1.1	2.30	0.39	0.82
	MUFZ-KJ35VEHZ	R410A	2088	1.1	2.30	0.39	0.82
	MUFZ-KJ50VEHZ	R410A	2088	1.5	3.14	0.46	0.97
	MXZ-2D33VA	R410A	2088	1.15	2.72	0.0	0.00
	MXZ-2D42VA2	R410A	2088	1.3	2.72	0.2	0.42
	MXZ-2D53VA(H)2	R410A	2088	1.3	2.72	0.2	0.42
	MXZ-3E54VA	R410A	2088	2.7	5.64	0.2	0.42
	MXZ-3E68VA MXZ-4E72VA	R410A R410A	2088	2.7	5.64 5.64	0.4	0.84
	MXZ-4E83VA	R410A	2088	2.99	6.25	0.4	1.88
	MXZ-5E102VA	R410A	2088	2.99	6.25	1.6	3.35
	MXZ-6D122VA	R410A	2088	4.0	8.36	1.0	2.09
	MXZ-2F33VF	R32	675	1.0	0.68	0.00	0.00
	MXZ-2F42VF	R32	675	1.2	0.81	0.00	0.00
	MXZ-2F53VF(H)	R32	675	1.2	0.81	0.00	0.00
	MXZ-3F54VF	R32	675	1.4	0.95	1.0	0.68
	MXZ-3F68VF	R32	675	1.4	0.95	1.0	0.68
	MXZ-4F72VF MXZ-2E53VAHZ	R32 R410A	675 2088	1.4 2.0	0.95	0.2	0.68
	MXZ-4E83VAHZ	R410A	2088	3.9	4.18 8.15	0.2	1.88
	MXZ-2DM40VA	R410A	2088	0.95	1.99	0.3	0.42
	MXZ-3DM50VA	R410A	2088	2.7	5.64	0.2	0.42
	SUZ-KA25VA6	R410A	2088	0.8	1.68	0.39	0.82
	SUZ-KA35VA6	R410A	2088	1.15	2.41	0.39	0.82
S-Series	SUZ-KA50VA6	R410A	2088	1.6	3.35	0.46	0.97
	SUZ-KA60VA6	R410A	2088	1.6	3.35	0.46	0.97
	SUZ-KA71VA6	R410A	2088	1.8	3.76	1.265	2.65

		Refrigerant		t Pre-charged guantity		Max. added guantity	
	Model Name			Weight	CO ₂	Weight	CO ₂
			GWP	[kg]	equivalent [t]	[kg]	equivalent [t]
	PUZ-ZM35VKA	R32	675	2.0	1.35	0.3	0.20
	PUZ-ZM50VKA PUZ-ZM60VHA	R32 R32	675 675	2.0	1.35	0.3	0.20
	PUZ-ZM71VHA	R32	675	2.8	1.89	0.8	0.54
	PUZ-ZM100VKA	R32	675	4.0	2.70	2.8	1.89
	PUZ-ZM100YKA PUZ-ZM125VKA	R32	675 675	4.0	2.70	2.8	1.89
	PUZ-ZM125VKA PUZ-ZM125YKA	R32	675	4.0	2.70	2.8	1.89
	PUZ-ZM140VKA	R32	675	4.0	2.70	2.8	1.89
	PUZ-ZM140YKA	R32	675	4.0	2.70	2.8	1.89
	PUHZ-ZRP35VKA2 PUHZ-ZRP50VKA2	R410A R410A	2088	2.2	4.60 5.02	0.4	0.84
	PUHZ-ZRP60VHA2	R410A	2088	3.5	7.31	1.2	2.51
	PUHZ-ZRP71VHA2	R410A	2088	3.5	7.31	1.2	2.51
	PUHZ-ZRP100VKA3 PUHZ-ZRP100YKA3	R410A R410A	2088	5.0 5.0	10.44	2.4	5.02
	PUHZ-ZRP125VKA3	R410A	2088	5.0	10.44	2.4	5.02
P-Series	PUHZ-ZRP125YKA3	R410A	2088	5.0	10.44	2.4	5.02
	PUHZ-ZRP140VKA3	R410A	2088	5.0	10.44	2.4	5.02
	PUHZ-ZRP140YKA3 PUHZ-ZRP200YKA3	R410A R410A	2088	5.0 7.1	10.44 14.83	2.4 3.6	5.02 7.52
	PUHZ-ZRP250YKA3	R410A	2088	7.7	16.08	4.8	10.03
	PUHZ-P100VKA	R410A	2088	3.3	6.89	1.2	2.51
	PUHZ-P100YKA	R410A	2088	3.3	6.89	1.2	2.51
	PUHZ-P125VKA PUHZ-P125YKA	R410A R410A	2088	3.8	7.93 7.93	1.2	2.51
	PUHZ-P140VKA	R410A	2088	3.8	7.93	1.2	2.51
	PUHZ-P140YKA	R410A	2088	3.8	7.93	1.2	2.51
	PUHZ-P200YKA3 PUHZ-P250YKA3	R410A R410A	2088	6.5 7.7	13.58	3.6 4.8	7.52 10.03
	PUHZ-SHW112VHA	R410A	2088	5.5	11.49	2.4	5.02
	PUHZ-SHW112YHA	R410A	2088	5.5	11.49	2.4	5.02
	PUHZ-SHW140VHA	R410A	2088	5.5	11.49	2.4	5.02
	PUHZ-SHW140YHA PUHZ-FRP71VHA	R410A R410A	2088	5.5 3.8	11.49 7.94	1.8	5.02 3.76
	PUMY-SP112VKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMY-SP112YKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMY-SP125VKM(-BS)	R410A R410A	2088	3.5	7.31 7.31	9.0	18.79
	PUMY-SP125YKM(-BS) PUMY-SP140VKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79 18.79
	PUMY-SP140YKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79
PUMY	PUMY-P112VKM4(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P125VKM4(-BS) PUMY-P140VKM4(-BS)	R410A R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P112YKM(E)4(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P125YKM(E)4(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P140YKM(E)4(-BS)	R410A		4.8	10.02	13.8	28.81
	PUMY-P200YKM2 (-BS) PUHZ-W50VHA2(-BS)	R410A R410A	2088	7.3 1.7	15.24 3.55	13.1	27.35
	PUHZ-W85VHA2(-BS)	R410A	2088	2.4	5.02	-	
ATW	PUHZ-W112VHA(-BS)	R410A	2088	4.0	8.36	-	
Packaged	PUHZ-HW112YHA2(-BS) PUHZ-HW140VHA2(-BS)	R410A R410A	2088	4.0	8.36 8.98	-	
	PUHZ-HW140YHA2(-BS)	R410A	2088	4.3	8.98	_	
	SUHZ-SW45VA(H)	R410A		1.3	2.72	0.35	0.72
	PUHZ-SW50VKA(-BS)	R410A	2088	1.4	2.93	0.6	1.26
	PUHZ-SW75VAA(-BS) PUHZ-SW75YAA(-BS)	R410A R410A	_	3.0	6.27	1.8	3.76 3.76
	PUHZ-SW100VAA(-BS)	R410A		4.2	8.77	1.8	3.76
	PUHZ-SW100YAA(-BS)	R410A	I	4.2	8.77	1.8	3.76
	PUHZ-SW75VHA(-BS)	R410A	_	3.2	6.69	1.4	2.93
	PUHZ-SW100VHA(-BS) PUHZ-SW100YHA(-BS)	R410A R410A	_	4.6 4.6	9.61 9.61	2.9	6.06
ATW Split	PUHZ-SW120VHA(-BS)	R410A	2088	4.6	9.61	2.9	6.06
	PUHZ-SW120YHA(-BS)	R410A	2088	4.6	9.61	2.9	6.06
	PUHZ-SW160YKA(-BS) PUHZ-SW200YKA(-BS)	R410A R410A	2088	7.1 7.7	14.83 16.08	4.0 5.2	8.36 10.86
	PUHZ-SHW80VAA	R410A	2088	4.6	9.61	1.4	2.93
	PUHZ-SHW80YAA	R410A	2088	4.6	9.61	1.4	2.93
	PUHZ-SHW112VAA	R410A	_	4.6	9.61	1.4	2.93
	PUHZ-SHW112YAA PUHZ-SHW80VHA	R410A R410A	2088	4.6 5.5	9.61	1.4 2.4	2.93 5.02
	PUHZ-SHW112VHA	R410A	2088	5.5	11.49	2.4	5.02
	PUHZ-SHW112YHA	R410A	_	5.5	11.49	2.4	5.02
	PUHZ-SHW140YHA PUHZ-SHW230YKA2	R410A	2088	5.5	11.49	2.4	5.02
Mr. Slim+	PUHZ-SHW230YKA2 PUHZ-FRP71VHA2	R410A R410A	2088	7.7 3.8	16.08 7.94	5.2 1.8	10.86 3.76

R32 REFRIGERANT

R32 REFRIGERANT PROPERTIES

Under the conditions shown below, there is a possibility that R32 could ignite.



	R32	R410A	R22	
Chemical formula	CH ₂ F ₂	CH ₂ F ₂ CH ₂ F ₂ /CHF ₂ CF ₃		
Composition (blend ratio wt. %)	Single composition	R32/R125 (50/50 wt %)	Single composition	
Ozone depletion potential (ODP)	0	0	0.055	
Global warming potential (GWP) *1	675	2088	1810	
LFL(vol.%) *2	13.3	_	_	
UFL(vol.%) *3	29.3	-	-	
Flammability *4	Lower flammability (2L)	No flame propagation (1)	No flame propagation (1)	

^{*1} IPCC 4th assessment report.

Although R32 is classified as low flammability, the possibility of igniting can be eliminated by ensuring the following three points.

a) Do not leak refrigerant.

<Installation> ·Vacuum drying should be done. Air purging is prohibited.

·Follow "4. Installation Points of Refrigerant Piping Work"

<Repair/Relocation/Removal> ·Pump down or recovering refrigerant should be done.

b) Prevent concentration.

·Ventilate during installation and servicing, such as open the door or window and use a fan.

·Follow "2. Installation Restrictions".

c) Keep ignition source away from the unit.

- Do not braze pipe and unit which contain refrigerant. Before brazing, refrigerant should be recovered.
- Do not install unit while the electricity is turned on. Turn off electricity at the fuse box and check the wiring using a tester.
- Do not smoke when working or during transportation of the product.

Note

Both R32 / R410A emit a toxic gas when coming into contact with an open flame.

^{*2} LFL : Lower flammable limit

^{*3} UFL: Upper flammable limit

^{*4} ISO 817:2014

^{*5} R32 consistency is higher than LFL*1 and lower than UFL*2.

INSTALLATION RESTRICTIONS

In order to prevent the refrigerant from igniting, use the following instructions during installation.

1) Indoor Units

Install in a room with a floor area of Amin* or more, corresponding to refrigerant quantity M.

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

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

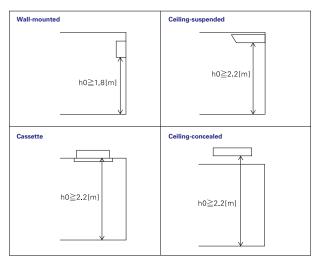
* Refer to table and drawings below

<M & P Series>

IVI & F Selles/				
M[kg]	Amin[m²]			
1.0	4			
1.5	6			
2.0	8			
2.5	10			
3.0	12			
3.5	14			
4.0	16			
4.5	20			
5.0	24			
5.5	29			
6.0	35			
6.5	41			
7.0	47			
7.5	54			

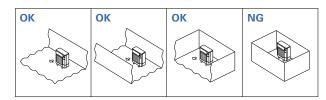
<MXZ Series>

M[kg]	Amin[m²]
1.0	3
1.5	4.5
2.0	6
2.5	7.5
3.0	9
3.5	12
4.0	15.5
4.5	20
5.0	24
5.5	29
6.0	35
6.5	41
7.0	47
7.5	54



2) Outdoor Units

Install outdoor units in a place where at least one of the four sides is open or in a sufficiently large space without depressions.



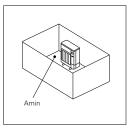
If you unavoidably install a unit in a space where all four sides are blocked or there are depressions, confirm that one of these situations (A, B or C) is satisfied.

A Secure sufficient installation space (minimum installation area Amin).

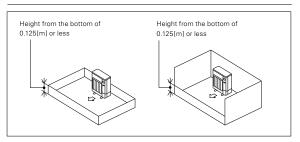
Install in a space with an installation area of Amin* or more, corresponding to refrigerant quantity M. (M = factory-charged refrigerant + locally added refrigerant)

* Refer to table and drawings below

M[kg]	Amin[m²]
1.0	12
1.5	17
2.0	23
2.5	28
3.0	34
3.5	39
4.0	45
4.5	50
5.0	56
5.5	62
6.0	67
6.5	73
7.0	78
7.5	84



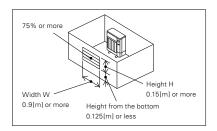
B Install in a space with a depression height of ≤ 0.125 [m].



Create an appropriate open ventilation area.

Make sure that the width of the open area is 0.9[m] or more and the height of the open area is 0.15[m] or more.

However, the height from the bottom of the installation space to the bottom edge of the open area should be 0.125[m] or less. More than 75% of the ventilation area should be open to allow air circulation.



Note These countermeasures (A, B or C) are for keeping safety not for specification guarantee.

• Models with R32 Refrigerant: MSZ-L Series (single connection)

OSSNAY SYSTEM







LOSSNAY LINE-UP

Α	pplication	Air volume Model	50 CMH	100 CMH	150 CMH	250 CMH	350 CMH	500 CMH	650 CMH	800 CMH	1000 CMH	1500 CMH	2000 CMH	2500 CMH
		LGH-RVX Series			•	•	•	•	•	•	•	•	•	
Co	mmerical	LGH-RVXT Series										•	•	•
	Use	GUF Series						•			•			
	Optional Unit	Dx-Coil unit for Lossnay LGH-RVX/RVXT Series GUG Series						•	•	•	•	•	•	•
		VL-220CZGV-E				•								
Re	esidential Use	VL-100(E)U5-E		•										
		VL-50(E)S ₂ -E VL-50SR ₂ -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.

Dx-Coil Unit (GUG Series)

Temperature control equipment working with Lossnay unit and Mr. Slim outdoor unit.

GUF Series

Heat recovery with heating and cooling system using the heat resource of City Multi outdoor unit.

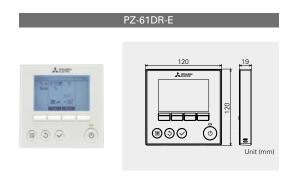
VL-220CZGV-E

Centralized ventilation for residential use with sensible heat exchange.

VL-100(E)U5-E, VL-50(E)S2-E

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

REMOTE CONTROLLER



FZ-433IVIF-E
Arear Lower case. Unit (mm)

Function	PZ-61	DR-E	PZ-433	SMF-E
(Communicating Mode)	LGH-RVX/RVXT	VL-220CZGV-E	LGH-RVX/RVXT	VL-220CZGV-E
Fan speed selection	4 fan speeds	4 fan speeds	2 of 4 fan speeds	2 of 4 fan speeds
Ventilation mode selection	Energy recovery / 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)	Selectable 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

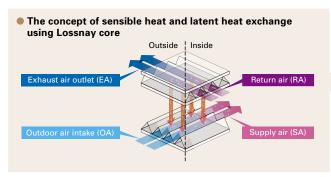
LOSSNAY

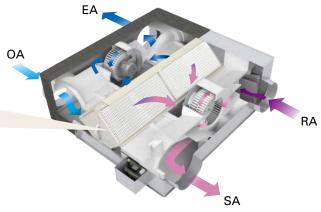
Lossnay ventilation systems are renowned industry-wide for their efficiency. They offer environment-friendly energy recovery and humidity control, and enable air conditioning systems to simultaneously provide optimum room comfort and energy savings.



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

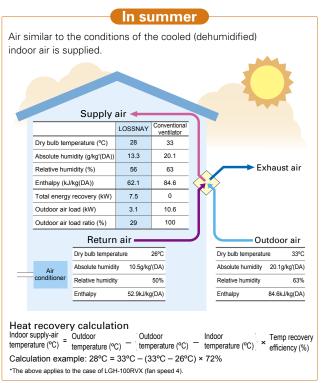
Lossnay is a total heat exchange ventilation system that uses paper characteristics to perform temperature (sensible heat) and humidity (latent heat) exchange.

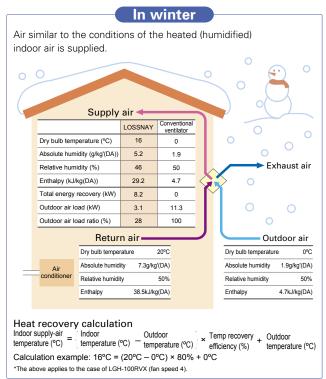




What can be Improved by Introducing Lossnay?

Ventilation with maximised comfort





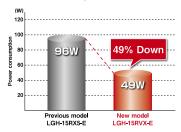
Commercial Use Lossnay

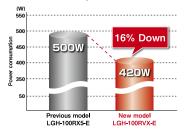
LGH-RVX (Standard model)

Power consumption reduced further with introduction of a DC motor

Realized low power consumption with introduction of a high efficiency brushless DC motor. Compared to models with an AC motor, power consumption is reduced.

Comparison between new and previous power consumption (New model: Fan speed 4 at 230V 50Hz, Previous model: Extra-High at 220V 50Hz)





Improved Air Volume Range

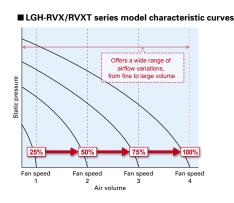
Wide range air volume

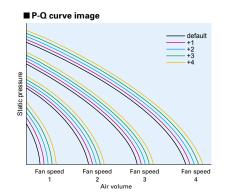
Each fan speed has a range setting of 25, 50, 75 and 100%, allowing much finer air volume control. When used in combination with the CO₂ sensor or timer function, the air volume can be controlled according to conditions that realize better performance and reduce power consumption.

Fan speed adjustment function

The default fan speed value can be adjusted slightly. Use the PZ-61DR-E remote controller to reset the speed.

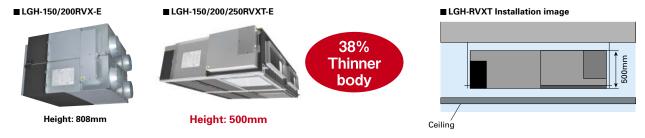
- 1) Considering the total hours of Lossnay operation (filter clogging), the fan power can be adjusted automatically after a given period of time.
- 2) After the unit is installed, when if the air volume is slightly lower than the desired airflow, it is possible to make fine adjustments.





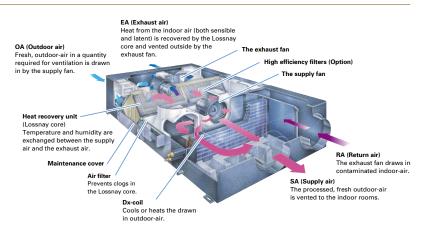
LGH-RVXT (Thinner body type)

The LGH-RVXT series have a large air volume of 1500 - 2500 CMH, but has a thin body @500mm. Installing the unit behind the ceiling is easy.



GUF Series (Lossnay with Dx-coil unit)

Along with Lossnay ventilation, the OA Processing Unit is really two units in one, functioning as the main air conditioner when the load is light and adding supplemental air conditioning when the load is heavy.



Commercial Use Lossnay Specifications

LGH-RVX Series

Model				ı	LGH-15	RVX-E	•					ı	.GH-25	RVX-E	=					ı	LGH-35	5RVX-I	E		
Electrical power supply				220-24	10V/50H	lz, 220	V/60Hz	:				220-24	0V/50H	Iz, 220	V/60Hz					220-24	0V/50H	Hz, 220	Z		
Ventilation mode		Hea	at reco	very m	ode		Bypass	mode		Hea	at reco	ery mo	ode		Bypass	mode		He	at reco	very m	ode		Bypas	s mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	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	0.98	0.54	0.26	0.12	0.98	0.56	0.28	0.13
Input power (W)		49	28	14	7	52	28	14	8	62	33	16	7.5	63	35	17	9	140	70	31	11	145	72	35	13
Air volume	(m ³ /h)	150	113	75	38	150	113	75	38	250	188	125	63	250	188	125	63	350	263	175	88	350	263	175	88
All volume	(L/s)	42	31	21	10	42	31	21	10	69	52	35	17	69	52	35	17	97	73	49	24	97	73	49	24
External static pressure (Pa)		95	54	24	6	95	54	24	6	85	48	21	5	85	48	21	5	160	90	40	10	160	90	40	10
Temperature exchange efficiency	y (%)	80	81	83	84	-	-	-	-	79	80	82	86	-	-	-	-	80	82.5	86	88.5	-	-	-	-
Enthalpy exchange	Heating	73	75.5	78	79	-	-	-	-	69.5	72	76	83	-	-	-	-	71.5	74	78.5	83.5	-	-	-	-
efficiency (%)	Cooling	71	74.5	78	79	-	-	-	-	68	70	74.5	83	-	-	-	-	71	73	78	82	-	-	-	-
Noise (dB) (Measured at 1.5m under of unit in an anechoeic ch	the center namber)	28	24	19	17	29	24	19	18	27	22	20	17	27.5	23	20	17	32	28	20	17	Bypas SP4 SP3 0.98 0.56 145 72 350 263 97 73 160 90 32.5 28		20	18
Weight (kg)					2	:0							2	3							3	80			
Specific energy consumption class					,	4							,	4								-			

Model					LGH-50	RVX-E							LGH-6	RVX-E	=						LGH-80	RVX-I	•		
Electrical power supply				220-24	0V/50H	łz, 220	V/60H2	2				220-24	-0V/50H	Iz, 220	V/60Hz					220-24	0V/50H	Hz, 220	V/60H	z	
Ventilation mode		Hea	at reco	very m	ode		Bypass	s mode		He	at reco	very m	ode		Bypass	s mode		He	at reco	very m	ode		Bypas:	s mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		1.15	0.59	0.26	0.13	1.15	0.59	0.27	0.13	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)		165	78	32	12	173	81	35	14	252	131	49	15	262	131	47	17	335	151	60	18	340	151	64	20
Air volume	(m ³ /h)	500	375	250	125	500	375	250	125	650	488	325	163	650	488	325	163	800	600	400	200	800	600	400	200
All volume	(L/s)	139	104	69	35	139	104	69	35	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	120	68	30	8	120	68	30	8	150	85	38	10	150	85	38	10
Temperature exchange efficience	y (%)	78	81	83.5	87	-	-	-	-	77	81	84	86	-	-	-	-	79	82.5	84	85	-	-	-	-
Enthalpy exchange	Heating	69	71	75	82.5	-	-	-	-	68.5	71	76	82	-	-	-	-	71	73.5	78	81	-	-	-	-
efficiency (%)	Cooling	66.5	68	72.5	82	-	-	-	-	66	69.5	74	81	-	-	-	-	70	72.5	78	81	-	-	-	-
Noise (dB) (Measured at 1.5m under of unit in an anechoeic cl	the center hamber)	34	28	19	18	35	29	20	18	34.5	29	22	18	35.5	29	22	18	34.5	30	23	18	36	30	23	18
Weight (kg)					3	3							3	8							4	8			

Model				L	GH-10	0RVX-	E					L	GH-15	0RVX-	E					L	GH-20	0RVX-	E			
Electrical power supply				220-24	0V/50H	Iz, 220	V/60Hz	2				220-24	-0V/50H	Iz, 220	V/60Hz	2				220-24	IOV/50H	Hz, 220	V/60H:	2		
Ventilation mode		Hea	at reco	very m	ode		Bypass	s mode		Не	at reco	ery m	ode		Bypass	s mode		Hea	at reco	very m	ode		Bypas:	s mode		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	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	4.88	2.20	0.88	42 853 372 150				0.35	
Input power (W)		420	200	75	21	420	200	75	23	670	311	123	38	698	311	124	44	850	400	153	42	49				
Air volume	(m ³ /h)	1000	750	500	250	1000	750	500	250	1500	1125	750	375	1500	1125	750	375	2000	1500	1000	500	2000	1500	1000	500	
All volume	(L/s)	278	208	139	69	278	208	139	69	417	313	208	104	417	313	208	104	556	417	278	139	556	417	278	139	
External static pressure (Pa)		170	96	43	11	170	96	43	11	175	98	44	11	175	98	44	11	150	84	38	10	150	84	38	10	
Temperature exchange efficience	y (%)	80	83	86.5	89.5	-	-	-	-	80	82.5	84	85	-	-	-	-	80	83	86.5	89.5	-	-	-	-	
Enthalpy exchange	Heating	72.5	74	78	87	-	-	-	-	72	73.5	78	81	-	-	-	-	72.5	74	78	87	-	-	-	-	
efficiency (%)	Cooling	71	73	77	85.5	-	-	-	-	70.5	72.5	78	81	-	-	-	-	71	73	77	85.5	-	-	-		
Noise (dB) (Measured at 1.5m under of unit in an anechoeic cl		37	31	23	18	38	32	24	18	39	32	24	18	40.5	33	26	18	40	36	28	18	10 150 84 38 3.5 37 5.5				
Weight (kg)					5	4							98	В							11	10				

LGH-RVXT Series

Model				LC	GH-150	RVXT	-E					L	3H-200	RVXT	-E					L	GH-250	RVXT	-E			
Electrical power supply				220-24	0V/50H	Iz, 220	V/60Hz	:				220-24	0V/50H	Iz, 220	V/60Hz	:				220-24	IOV/501	Iz, 220	V/60Hz	:		
Ventilation mode		Hea	at reco	very m	ode		Bypass	mode		Hea	at reco	ery m	ode		Bypass	mode		He	at reco	very m	ode		Bypass	mode	•	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	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	7.60	3.60	1.40	0.57	6.90	3.10	1.30	0.49	
Input power (W)		792	421	176	48	625	334	134	37	1000	494	197	56	916	407	150	45	1446	687	244	82	1298	587	212	69	
Air volume	(m ³ /h)	1500	1125	750	375	1500	1125	750	375	2000	1500	1000	500	2000	1500	1000	500	2500	1875	1250	625	2500	1875	1250	625	
All volume	(L/s)	417	313	208	104	417	313	208	104	556	417	278	139	556	417	278	139	694	521	347	174	694	521	347	174	
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11	175	98	44	11	175	98	44	11	175	98	44	11	175	98	44	11	
External static pressure (i a)	Return	100	56	25	6	100	56	25	6	100	56	25	6	100	56	25	6	100	56	25	6	6.90 3.10 1298 587 2500 187 694 521 175 98		25	6	
Temperature exchange efficiency	/ (%)	80	80.5	81	81.5	-	-	-	-	80	81	82.5	84	-	-	-	-	77	79	80.5	82.5	-	-	-	-	
Enthalpy exchange	Heating	70	71	73	75	-	-	-	-	72.5	73.5	77	83	-	-	-	-	68	71.5	74	79	-	-	-	-	
efficiency (%)	Cooling	69	70	72	74	-	-	-	-	70	71	74.5	80.5	-	-	-	-	65.5	69	71.5	76.5	2500 1875 694 521 175 98 100 56 		-	-	
Noise (dB) (Measured at 1.5m under of unit in an anechoeic ch	the center namber)	39.5	35.5	29.5	22	39	33	26.5	20.5	39.5	35.5	28	22	40.5	34.5	27	20.5	43	39	32	24	44	1298 587 212 2500 1875 125 694 521 343 175 98 44 100 56 25 44 38.5 31			
Weight (kg)					15	56							1	59							1	98				

GUF Series

Model				GUF-5	ORD4			GUF-1	00RD4			GUF-50	DRDH4			GUF-10	00RDH4			
Electrical por	wer supply			220-240				220-240					0V/50Hz				0V/50Hz			
Ventilation n			Heat recov	very mode	Bypass	mode	Heat reco	very mode	Bypass	mode	Heat recov	ery mode	Bypass	mode	Heat reco	very mode	Bypass	s mode		
Fan speed			High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low		
Running curr	rent (A)		1.15	0.70	1.15	0.70	2.20	1.73	2.25	1.77	1.15	0.70	1.15	0.70	2.20	1.76	2.25	1.77		
Input power	(VV)		235-265	150-165	235-265	150-165	480-505	370-395	490-515	385-410	235-265	150-165	235-265	150-165	480-505	385-400	490-515	385-410		
Air volume		(m ³ /h)	500	400	500	400	1000	800	1000	800	500	400	500	400	1000	800	1000	800		
All volume		(L/s)	139	111	139	111	278	222	278	222	139	111	139	111	278	222	278	222		
External stat	ic pressure (Pa)		140	90	140	90	140	90	140	90	125	80	125	80	135	86	135	86		
Temperature	exchange efficience	y (%)	77.5	80	-	-	79.5	81.5	-	-	77.5	80	-	-	79.5	81.5	-	-		
Enthalpy exc	hange	Heating	68	71	-	-	71	74	-	-	68	71	-	-	71	74	-	-		
efficiency (%	b)	Cooling	65	67	-	-	69	71	-	-	65	67	-	-	69	71	-	-		
Cooling capa	acity (kW)			5.57	(1.94)			11.44	(4.12)			5.57 ((1.94)			11.44	(4.12)			
Heating capa	acity (kW)			6.21	(2.04)			12.56	(4.26)			6.21 ((2.04)			12.56	(4.26)			
Capacity equ	uivalent to the indoo	r unit		P3	32			P	33			P3	32			P	63			
	Humidifying			-	-			-	-				Per	meable fi	ilm humid	lifier				
Humidifier	Humidifying capaci	ty(kg/h)		-	-			-	-			2.7 (he	eating)			5.4 (heating)				
	Water supply press	sure		-	-			-	-		Minim	um press	ure: 2.0	× 10⁴Pa	Maximu	m pressur	e: 49.0 ×	10 ⁴ Pa		
Noise (dB) (f	Measured at 1.5m ur	nder the center of the unit)	33.5-34.5	29.5-30.5	35-36	29.5-30.5	38-39	34-35	38-39	35-36	33.5-34.5	29.5-30.5	35-36	29.5-30.5	38-39	34-35	38-39	35-36		
Weight (kg)				4	8			8	2		51	(filled wit	th water 5	55)	88	(filled wi	th water 9) 6)		

For LGH-RVX and LGH-RVXT series

*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.

#For GUF series

*Cooling/Heating capacity indicates the maximum value at operation under the following condition.

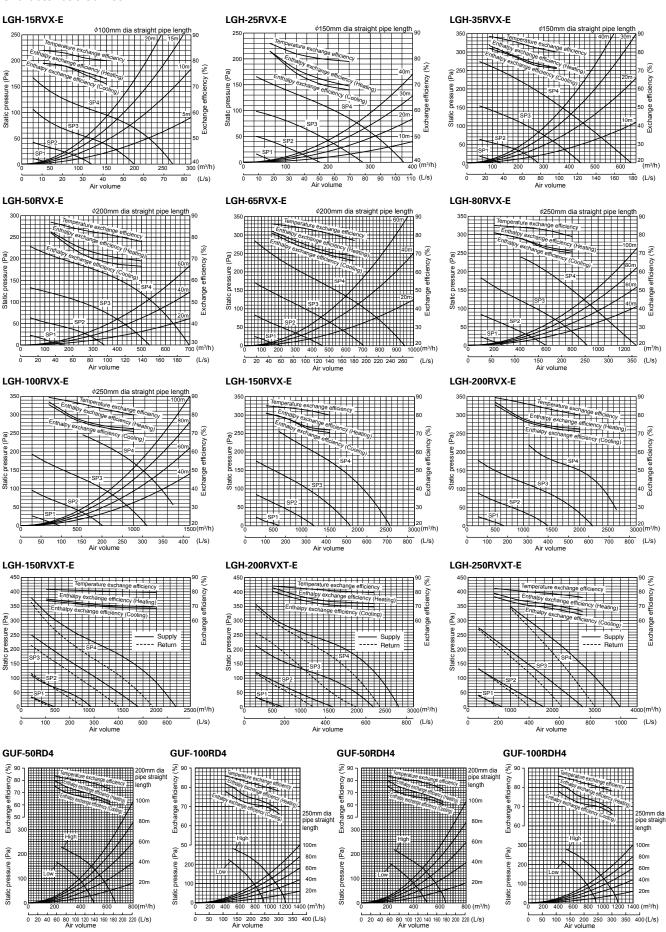
Cooling: Indoor: 20°C DB/13.8°C WB Outdoor: 35°C DB/24°C WB

#Heating: Indoor: 20°C DB/13.8°C WB Outdoor: 7°C DB/6°C WB

*The figures in () indicates heat recoverying capacity of heat exchange core.

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

Characteristic Curves



Optional Dx-coil Unit for Lossnay

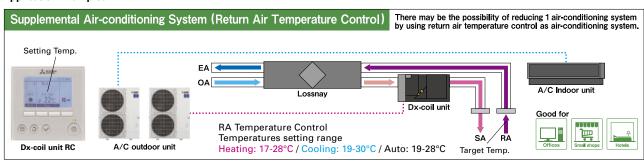
Supply Comfortable Control

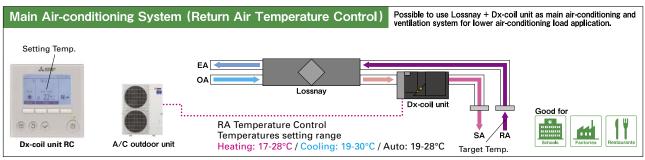
Product Features

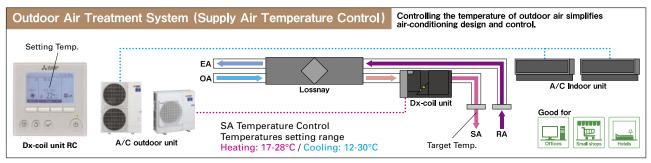
- Lossnay return air and supply air temperature control are possible with Dx-coil unit which is connectable with Mr. Slim (Power inveter series)
- Expand the product line-up of Lossnay with temperature control (500-2,500CMH) by the connection of Dx-coil unit. Suitable for various applications such as offices, shops and schools etc.



Application Examples

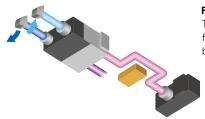






*Example images of using LGH-RVXT series for reference only.

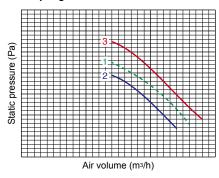
Flexible Installation



Flexible Connection to Lossnay

The length of the connection cable (accessory) between the Lossnay and Dx-coil unit is about 6m, so flexible installation is possible (two units can be installed close together or far apart with straight or bent ducting).

To Keep High Static Pressure



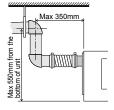
P-Q curve image

- 1. Lossnay unit
- 2. Lossnay unit + Dx-coil unit
- 3. Lossnay unit (fan power up +4) + Dx-coil unit

Dx-coil unit static pressure loss is kept to minimum, making it possible to maintain high static pressure using the fan power up function of the Lossnay. The fan power up function is only available when used with the PZ-61DR-E Lossnay remote controller.

Drain Pump Equipment

A built-in drain pump makes, attaching the drain hose in the ceiling cavity easy, resulting in simple and fast installation.



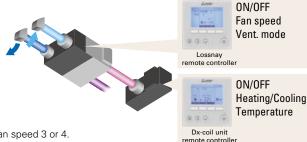
User-friendly System Control

Flexible Remote Controller Selection

(A) One remote controller



(B) Two remote controllers



When using only one remote controller, the Lossnay fan speed is fixed at fan speed 3 or 4. When using two remote controllers, all of Lossnay function is available.

- *1: Both of Lossnay unit and Dx-coil unit will synchronously switch to ON and OFF.
- *2: When one of the two remote controllers is turned ON, the other remote controller turns ON synchronously.

Priority Mode Selection

Temperature priority mode (factory setting) or Fan speed priority mode are selectable when Lossnay unit fan speed is controlled by a CO₂-sensor or a BMS (analogue input (0-10VDC) or a volt-free input).

*During fan speed 1 or 2, the Dx-coil unit is always thermo-OFF

Operation	Fan speed order		an speed
mode	from external input	Temp. priority	Fan speed priority
	FS4	FS4	FS4
Heating	FS3	FS3	FS3
or Cooling	FS2	FS3	FS2
Cooming	FS1	FS3	FS1
	FS4	FS4	FS4
Fan	FS3	FS3	FS3
Гап	FS2	FS2	FS2
	FS1	FS1	FS1

Specifications

GUG Series





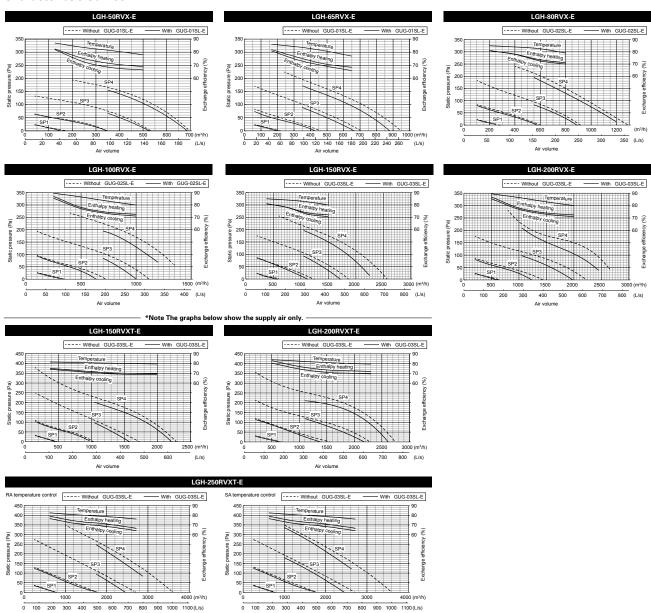


GUG-01SL-E GUG-02SL-E GUG-03SL-E

Model			(C	onnection		01SL-E RVX-E or L	GH-65RV)	(-E)			(Co	onnection 1	GUG- to LGH-80F	02SL-E RVX-E or L	GH-100RV	X-E)	
Refrigerant					R4	10A							R41	10A			
Electrical power supp	oly		220-24	0V / 50Hz, 2	220V / 60H	z (Supplied	from outdo	or unit)			220-24	0V / 50Hz,	220V / 60H	z (Supplied	from outdo	or unit)	
Input power				Heating	/ Fan: 2.5	N, Cooling:	12.4W					Heating	g / Fan: 2.5\	N, Cooling:	12.4W		
Running current					Less th	an 0.1A							Less th	an 0.1A			
Weight				21kg	*Accesso	ories: Appro	x. 1kg					26kg	*Accesso	ories: Appro	x. 1kg		
		Heating	/ Cooling /	Auto / Fan	*Auto is	only availab	ole for RA t	emperature	control	Heating	/ Cooling /	Auto / Fan	*Auto is	only availab	ole for RA t	emperature	control
Function				RA (Re	turn Air) te	mperature o	control						ure control and not po				
								RA (Ret	urn Air) te	mperature	control						
Connectable Lossnay	/ unit		LGH-5	0RVX-E			LGH-6	5RVX-E			LGH-8	0RVX-E			LGH-10	00RVX-E	
Capacity [kW]	Heating		6.5 (2.4	4 + 4.1)			7.7 (3.:	2 + 4.5)			10.0 (4	.0 + 6.0)			13.2 (5	.1 + 8.1)	
Capacity (KVV)	Cooling		5.6 (2.	0 + 3.6)			6.6 (2.	6 + 4.0)			8.3 (3.3	3 + 5.0)			11.3 (4	.2 + 7.1)	
SHF	•		0.	66			0.	69			0.	69			0.	.66	
Performance index	Heating		4.	09			4.	72			4.	62			4.	42	
	Cooling		4.	69			5.	03			4.	76			4.	.98	
Air flow range at SP3	v range at SP3 and SP4 350 - 695 m³/h						350 - 9	00 m ³ /h			560 - 12	200 m ³ /h			700 - 12	200 m ³ /h	
Connectable outdoor	unit		PUHZ-	-ZRP35			PUHZ-	-ZRP35			PUHZ	-ZRP50		PUHZ-ZRP71			
Ext. piping		Diamet	ter Liquid	d / Gas: 6.3	5 / 12.7	Diame	ter Liquid	d / Gas: 6.3	5 / 12.7	Diame	ter Liqui	d / Gas: 6.3	5 / 12.7	Diamet	er Liquid	l / Gas: 9.52	2 / 15.88
Ext. piping		Maximum	length: 50m	, Maximum I	eight: 30m	Maximum	length: 50m	, Maximum I	neight: 30m	Maximum				Maximum	length: 50m	, Maximum I	height: 30m
Required optional par	rts			-				-		PAC-S	H30RJ-E a	nd PAC-SH	50RJ-E			-	
								SA (Su	oply Air) te	emperature	control						
Connectable Lossnay	/ unit			-				-			LGH-8	0RVX-E			LGH-10	00RVX-E	
Capacity [kW]	Heating			_				_			10.0 (4	.0 + 6.0)			11.4 (5	.1 + 6.3)	
, ,, ,	Cooling			-				-			8.3 (3.3	3 + 5.0)			9.5 (4.	2 + 5.3)	
SHF				_				_				69			-	.73	
Performance index	Heating			-				-				62				.09	
	Cooling											76				43	
Air flow range at SP3				-				-				200 m ³ /h				200 m ³ /h	
Connectable outdoor	unit			_								ZRP50				-ZRP50	
Ext. piping				-				-				d / Gas: 6.3				d / Gas: 6.3	
				-				-				, Maximum				, Maximum I	
Required optional par	rts			-				-				nd PAC-SH	50RJ-E	PAC-S	H30RJ-E a	nd PAC-SH	50RJ-E
									entilation s	specification							
Connectable Lossnay	/ unit			0RVX-E				5RVX-E				0RVX-E				00RVX-E	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Air Volume	[m ³ /h]	500	375	250	125	650	488	325	163	800	600	400	200	1,000	750	500	250
	[L/s]	139	104	69	35	181	135	90	45	222	167	111	56	278	208	139	69
External static pressu	ıre [Pa]	105	59	26	7	95	53	24	6	130	73	33	8	130	73	33	8

Model			(Connec	tion to I	GUG-0	3SL-E RVX-E or	LGH-20	0RVX-E)			((Connect	ion to LO	3H-150R		03SL-E GH-200I	RVXT-E o	or LGH-2	50RVXT	·E)	
Refrigerant											R4	10A									
Electrical power supp	oly							22	0-240V /	50Hz, 22	0V / 60H	z (Supplie	ed from o	utdoor u	nit)						
Input power										Heating /	Fan: 2.5\	N, Coolir	ng: 12.4V	V							
Running current											Less th	an 0.1A									
Weight										28kg	*Accesso	ries: App	orox. 1kg								
							Heati	ng / Cool	ing / Auto) / Fan	*Auto is	only ava	ilable for	RA temp	erature c	ontrol					
Function										nperature setting an											
									R	A (Retur	n Air) te	mperatu	ire contr	ol							
Connectable Lossnay	/ unit		LGH-15	0RVX-E			LGH-20	0RVX-E			LGH-150	RVXT-E			LGH-200	DRVXT-E			LGH-25	DRVXT-E	
Capacity [kW]	Heating		20.7 (7.7	7 + 13.0)	2	23.8 (10.	3 + 13.5)		20.4 (7.4	+ 13.0)		2	23.8 (10.	3 + 13.5)	2	26.1 (12.	1 + 14.0)
, , , , ,	Cooling		15.8 (6.	3 + 9.5)			18.4 (8.4	1 + 10.0)			15.7 (6.3	2 + 9.5)			18.4 (8.4	1 + 10.0)		22.3 (9.8	3 + 12.5))
SHF			0.	68			0.	76			0.0	38			0.	76			0.	87	
Performance index	Heating		4.:	24			5.	02			4.0	07			4.	86			4.	75	
	Cooling		5.:					86			5.0				5.						
Air flow range at SP3			1050 - 22	,	1		1050 - 2	,			1050 - 22				1050 - 20	,	1				
Connectable outdoor	unit		PUHZ-Z				PUHZ-Z				PUHZ-Z				PUHZ-2				PUHZ-Z		
Ext. piping																	52 / 15.88				
		Maximum I	length: 75m,	Maximum	height: 30m	Maximum	length: 75m,	Maximum h							ength: 75m,	Maximum	height: 30m	Maximum I	ength: 75m,	Maximum h	neight: 30m
									S	A (Supp			ıre contr	ol							
Connectable Lossnay			LGH-15				LGH-20	0RVX-E			LGH-150	RVXT-E			LGH-200	DRVXT-E			LGH-25	DRVXT-E	
Capacity [kW]	Heating		16.6 (7.	,			19.5 (10				16.3 (7.	,			19.5 (10)			.1 + 9.5))
	Cooling		13.4 (6.				15.9 (8.				13.3 (6.:				15.9 (8.		1		17.6 (9.		
SHF	Tree .		0.8				0.				0.8				0.				0.		
Performance index	Heating		5.4				6.				5.				6.				5.	• •	
	Cooling		5.					85			5.0				5.				5.		
Air flow range at SP3			1050 - 22	,	1		1050 - 2	,			1050 - 22				1050 - 20	,	1			600 m ³ /h	
Connectable outdoor	unit		PUHZ-				PUHZ-				PUHZ-				PUHZ-				PUHZ-		
Ext. piping		Diameter	- 1	,	2 / 15.88			,	,		- 1	,	,			,			40.0	/ Gas: 9.5	
		Maximum I	length: 50m,	Maximum	height: 30m	Maximum	length: 50m,	Maximum h	neight: 30m					Maximum	ength: 50m,	Maximum	height: 30m	Maximum	ength: 50m,	Maximum h	neight: 30m
0			1.011.45	00) 0/ 5			1.011.00	00) 0/ 5		Ven	tilation s	•	nons		1.011.00	D) A(T E			1.011.05	DI ACT F	
Connectable Lossnay	y unit	CD4	LGH-15		SP1	CD4		0RVX-E	SP1	CD4	LGH-150		SP1	CD4	LGH-200		SP1	CD4	SP3	DRVXT-E	CD1
Fan speed	[m³/h]	SP4	SP3	SP2		SP4	SP3	SP2		SP4	SP3	SP2		SP4	SP3	SP2		SP4	SP2	SP1	
Air Volume	* ' '	1,500	1,125 313	750 208	375 104	2,000 556	1,500 417	1,000 278	500 139	1,500 417	1,125 313	750 208	375 104	2,000 556	1,500 417	1,000 278	500 139	2,500 694	1,875 521	1,250 347	625 174
	[L/s]	417	313	208	104														79	347	
External static pressu	[D-1	150	84	38	9	105	59	26	7	150	84	38	9	145	82	36	9	140	9		

Characteristic Curves



Attention

- 1. The running current and input power are based on 230V/50Hz.
- 2. The cooling and heating capacities are based on the air conditions listed below and the rated airflow of fan speed 4.

Cooling Indoor: 27°CDB/19°CWB Outdoor: 35°CDB/24°CWB Heating Indoor: 20°CDB/15°CWB Outdoor: 7°CDB/6°CWB

- 3. The first figure in () of the capacity specification is the heat recovery energy of the Lossnay unit. The second figure is the capacity specification for the Dx-coil connected to the outdoor unit.
- 4. "Performance index" is the calculated value at the temperature conditions above and is reference purpose only.

 Performance index = Total capacity ÷ total power consumption of outdoor unit and Lossnay unit.
- 5. The external static pressure listed in the tables includes the static pressure loss of the Dx-coil unit when using a 50cm straight duct between the Lossnay and Dx-coil units. When the duct work between the Lossnay and Dx-coil units is longer and/or bent, the pressure loss of the duct work should be included in the pressure loss calculation.
- 6. The designed airflow of the system (Lossnay, Dx-coil and duct work) at fan speed 3 and 4 should be kept within "Airflow range at SP3 and SP4" listed in the tables. This range is shown as the solid line in graphs of the characteristics curve. If the Lossnay airflow is out of this range, the compressor of the outdoor unit may stop for self-protection purposes.
- 7. By installing the Dx-coil unit with a Lossnay unit, the air blow noise level is quieter at fan speed 4.
 - Please refer to the "Direct Expansion coil unit for Lossnay" catalogue.
- 8. Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere.

This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of 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.

Residential Use Lossnay

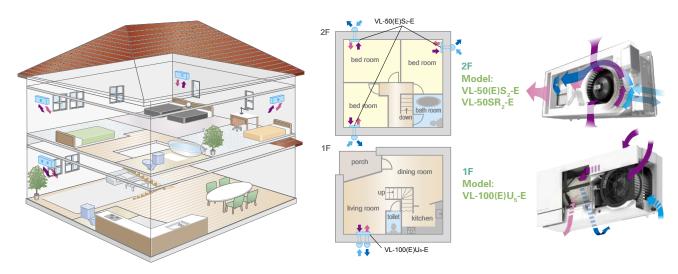
Mitsubishi Electric offers you decentralized ventilation and centralized ventilation solutions for optimising your indoor air quality by Lossnay.

Decentralized Ventilation Solution

Install the wall mounted Lossnay in each room.

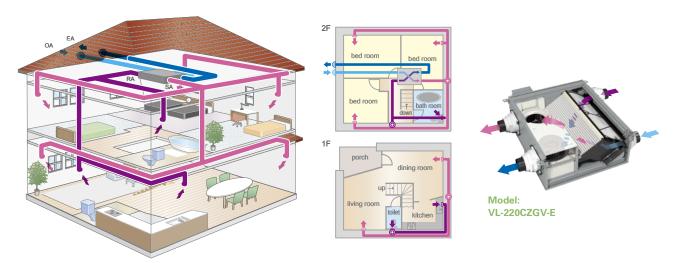
The heat recovery system provides fresh air at a comfortable air temperature.

Total heat exchangers effectively reduce heat loss.



Centralized Ventilation Solution

One Lossnay unit provides 24-hour ventilation for the entire house, from living room and bedrooms to the bathroom. The heat recovery system provides fresh air at a comfortable air temperature. Sensible heat exchanger effectively reduces excess humidity in the winter.

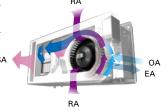


Decentralized ventilation: VL-50(E)S2-E, VL-50SR2-E and VL-100(E)U5-E

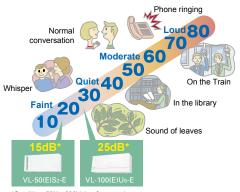
Product Merit

Air supplied and Exhausted Simultaneously

Supply and exhaust air simutaneously while transferring the heat.



The low noise level is good for bedrooms and children's rooms.



*Condition: 50Hz, 230V, low fan speed

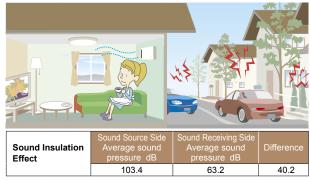
Energy Efficient

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

*VL-10D(E)U5-E at low fan speed in 230V 50Hz *VL-50(E)S2-E at low fan speed in 230V 50Hz

Sound Insulation

A sound insulation effect reduces noise generated outside.



^{*}Tested based on VL-08S2-AE

VL-08S₂-AE is Japanese dedicated model with equivalent of VL-50(E)S₂-E

Product Features

Stylish Design

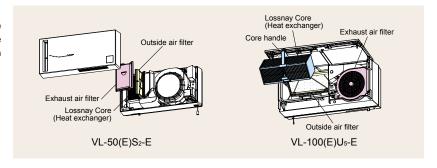
Match any interior décor to create a comfortable room.





Easy Maintenance

The only maintenance required is cleaning the outside-air filter and exhaust-air filter. Filters are easily accessible, making quick and thorough cleaning possible.



Flexible Installation for Only VL-50(E)S2-E and VL-50SR2-E

Not only horizontal installation but also vertical installation are available. It can fit various types of rooms with flexible installation.



^{*}Measured by average sound pressure level of more than 30dB in 500Hz according to JIS A1416.

Centralized ventilation: VL-220CZGV-E

Product Merit

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%*.





Energy Efficient

- The highest energy-saving performance in its class.
 (8.5W* minimum input power)
- Saves heating and cooling costs by minimizing energy loss that occurs during ventilation.



Quiet

- At an ultra quiet 14dB*, it is the quietest product in its class
- Blocks outside noise for a more comfortable environment.
- *Fan speed 1



Product Features

Fan Speed Precise Adjustment Function

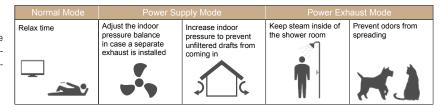
Each main fan speed value can be further adjusted slightly.

- Use the PZ-61DR-E remote controller to adjust the speed.
- 1) Considering the total hours of Lossnay opertaion (filter clogging), the fan power can be adjusted automatically after a given period of time.
- 2) After the unit is installed, when if the air volume is slightly lower or higher than the desired air flow, it is possible to make a fine adjustments. (Fan speed 4 is available only 1 down and 2 down)

Fan speed Fan speed Fan speed Fan speed Fan speed Fan speed 4

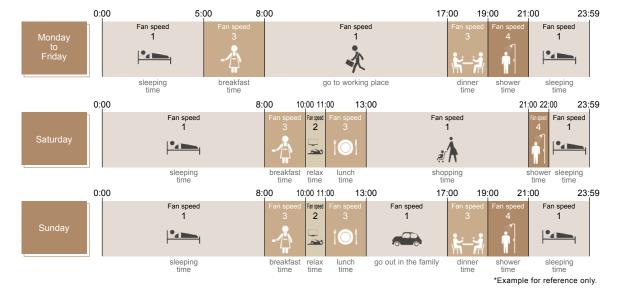
Multi Ventilation (Power Supply and Exhausted) Mode

This mode allows the air supply/ exhaust balance to be varied dynamically. The supply/ exhaust balance can be selected to suit the usage environment.



Weekly Timer

Operation patterns for each day of the week. ON/OFF and airflow can be set using the weekly timer function (up to eight zones per day). This function contributes to enhanced energy-saving operation.



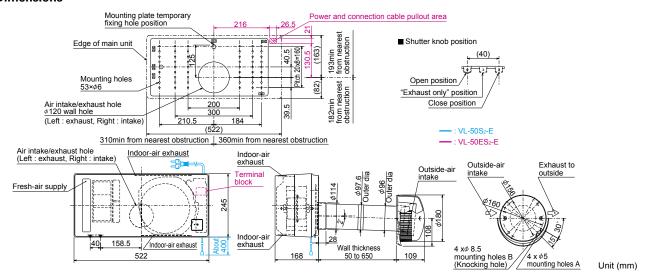
Residential Lossnay Specifications

Model: VL-50S₂-E (Pull-Switch Model), VL-50ES₂-E (Wall-Switch Model)

Model				VL-50(l	E)S2-E			
Electrical power supply	220V	/50Hz	230V/	′50Hz	240V/	50Hz	220V/	60Hz
Fan speed	High	Low	High	Low	High	Low	High	Low
Air volume (m³/h)	51	15	52.5	16	54	17	54	17
Power consumption (W)	19	4	20	4.5	21	5	21	5.5
Temperature exchange efficiency (%)	70	86	69	85	68	84	68	84
Noise level (dB)	36.5	14	37	15	37.5	15.5	37.5	15.5
Weight (kg)				6	.2			
Specific energy consumption class				()			

^{*}Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628) on shutter knob open position.

Dimensions

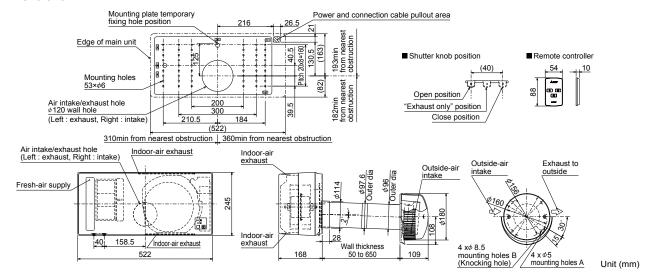


Model: VL-50SR₂-E (Remote Controller Model)

Model	VL-50SR ₂ -E							
Electrical power supply	220V/50Hz		230V/50Hz		240V/50Hz		220V/60Hz	
Fan speed	High	Low	High	Low	High	Low	High	Low
Air volume (m³/h)	51	15	52.5	16	54	17	54	17
Power consumption (W)	19	4.5	20	5	21	5.5	21	6
Temperature exchange efficiency (%)	70	86	69	85	68	84	68	84
Noise level (dB)	36.5	14	37	15	37.5	15.5	37.5	15.5
Weight (kg)	6.2							
Specific energy consumption class	С							

^{*}Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628) on shutter knob open position.

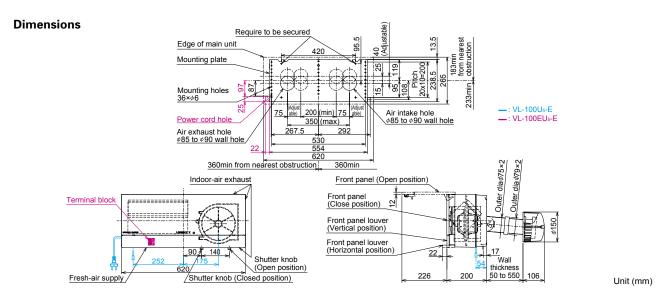
Dimensions



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

Model	VL-100(E)U₅-E							
Electrical power supply	220V/50Hz		230V/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 level (dB)	36.5	24	37	25	38	27	38	25
Weight (kg)	7.5							
Specific energy consumption class	В							

^{*}Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628) on shutter knob open position.

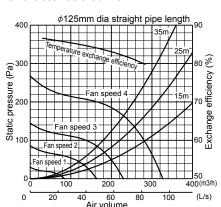


Model: VL-220CZGV-E

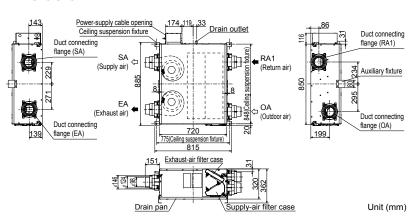
Model		VL-220CZGV-E					
Electrical power supply		220-240V/50Hz 220V/60Hz					
Ventilation mode		Heat recovery mode					
Fan speed		Fan speed 4	Fan speed 3	Fan speed 2	Fan speed 1		
Running current		0.60	0.29	0.18	0.11		
Input power (W)		80	35	18.5	8.5		
A: 1	(m³/h)	230	165	120	65		
Air volume	(L/s)	64	46	33	18		
External static pressure (Pa)		164	84	44	13		
Temperature exchange efficiency (%)		82	84	85	86		
Noise level (dB)		31	25	19	14		
Weight (kg)		31					
Specific energy consumption class		,	4				

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

Characteristic Curve



Dimensions



Accessories

Optional Parts for VL-50(E)S₂-E and VL-50SR₂-E

Filter, Extension Pipe and Stainless Hood

Туре	High Efficiency Filter	Replacement Filter	Extension Pipe	Joint	Stainless Hood
Design					
Model	P-50HF ₂ -E	P-50F ₂ -E	P-50P-E	P-50PJ-E	P-50VSQ5-E
Feature	Upgrated high-performance filter.	Standard grade replacement filter.	Total length when connected to the joint is 350mm.	Joint for extension pipe	Stylish stainless hood

Optional Parts for VL-100(E)U5-E

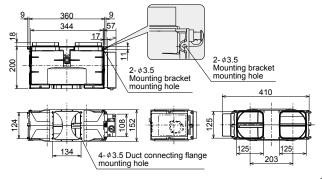
Filter and Extension Pipe

Type	High Efficiency Filter	Replacement Filter	Extension Pipe	Joint
Design				
Model	P-100HF5-E	P-100F ₅ -E	P-100P-E	P-100PJ-E
Feature	Upgrated high-performance filter.	Standard grade replacement filter.	Total length when connected to the joint is 300mm.	Joint for extension pipe Screw-in method

Optional Parts for VL-220CZGV-E

Bypass damper Model: P-133DUE-E





Unit (mm)

Filter

Type	High Efficiency Supply Air Filter	Medium Efficiency Exhaust Air Filter	Standard Replacement Filter
Design			
Model	P-220SHF-E	P-220EMF-E	P-220F-E
Classification (EN779:2012)	M6	G4	G3