

Changes for the Better



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

Air Conditioner Catalogue



## **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**



#### Preventing Global Warming

- Reduce CO<sub>2</sub> emissions from product usage by 30%
   Reduce total CO<sub>2</sub> emissions from production by 30%
- Aim to reduce CO<sub>2</sub> emissions from power generation

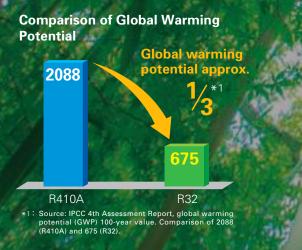
#### Creating a Recycling-Based Society

- 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 Awareness** 

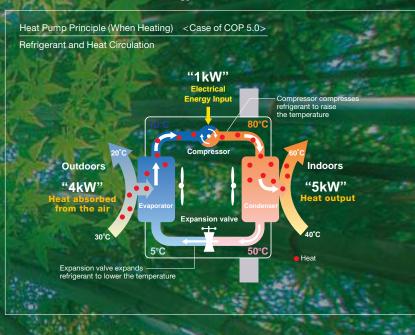
#### **The New Refrigerant R32**

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.



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

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



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

States States	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**

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

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

#### Ensuring Harmony with Nature / Fostering Environmental Awareness

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

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**Air Conditioners** 

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# LINE-UP

## **M** SERIES

**INVERTER Models** 

Madel New		1.5kW	1.8kW	2.0kW	2.2kW	2.5kW	3.5kW	4.2kW	5.0kW	6.0kW	7.1kW	Page
Model Nar	ne	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	гауе
	MSZ-L Series R32 R410A <sup>*2</sup>		W-V-R-B Multi connection only			W-V-R-B SINGLE	W-V-R-B SINGLE		W-V-R-B SINGLE	W-V-R-B SINGLE		13
	MSZ-A Series MSZ-AP15/20 R32 R410A*1	SINGLE		SINGLE								19
	MSZ-AP25/35/42/50 MSZ-AP60/71VG	VG				SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	19
	MSZ-E Series (R32) (R410A)*1		W-S-B Multi connection only		W-S-B Multi connection only	W-S-B SINGLE	W-S-B SINGLE	W-S-B SINGLE	W-SB SINGLE			25
	MSZ-BT Series			SINGLE		SINGLE	SINGLE		SINGLE			27
	MSZ-HR Series MSZ-HR25/35/42/5 R32 MSZ-HR60/71VF	OVF				SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	29
Wall- mounted	MSY-TP Series						SINGLE		SINGLE			31
	MSZ-S Series MSZ-SF15/20	/A Multi connection only		Multi connection only								35
	MSZ-SF25/35/42/50VE3					SINGLE	SINGLE	SINGLE	SINGLE			35
	MSZ-G Series									SINGLE	SINGLE	35
	MSZ-D Series					SINGLE	SINGLE					41
	MSZ-H Series MSZ-HJ25/3 R410A	5/50				SINGLE	SINGLE		SINGLE	SINGLE	SINGLE	43
Compact floor	MFZ Series (R32)					SINGLE	SINGLE		SINGLE	SINGLE		45
1-way cassette	MLZ Series					SINGLE	SINGLE		SINGLE			47

\*1: R410A is for MXZ and PUMY connection. \*2: R410A is for PUMY connection.

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

#### Indoor Combinations

SINGLE 1 outdoor unit & 1 indoor unit TWIN 1 outdoor unit & 2 indoor units

TRIPLE 1 outdoor unit & 3 indoor units

QUADRUPLE 1 outdoor unit & 4 indoor units

## **S** SERIES

INV	ERT	ER N	Vodels

Model Nar	Model Name		2.5kW	3.5kW	5.0kW	6.0kW	7.1kW	10.0kW	12.5kW	14.0kW	Page
Model Na			1-phase	1-phase	1-phase	1-phase	1-phase	1- & 3-phase	1- & 3-phase	1- & 3-phase	ruge
2 x 2 cassette	SLZ Series R32 R410A	Multi connection only	SINGLE	SINGLE	SINGLE	SINGLE	TWIN	TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	<b>TRIPLE</b> QUADRUPLE	55
Compact ceiling- concealed	SEZ Series R32 R410A		* Single	* Single	* Single	* SINGLE	* SINGLE				60

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

## **P** SERIES

R32 Power Inverter Models / R32 Standard Inverter Models

Model Name		3.5kW	5.0kW	6.0kW	7.1kW	10.0kW	12.5kW	14.0kW	20.0kW	25.0kW	Paga
		1-phase	1-phase	1-phase	1-phase	1- & 3-phase	1- & 3-phase	1- & 3-phase	1- & 3-phase	1- & 3-phase	Page
4-way cassette	PLA Series	SINGLE	SINGLE	SINGLE	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	67
Ceiling-	PEAD Series	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	76
concolod	PEA Series     R32								SINGLE	SINGLE	81
Wall- mounted	PKA Series	* SINGLE	* Single	* Single	SINGLE * TWIN	SINGLE TWIN	TWIN	TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TRIPLE QUADRUPLE	84
Ceiling- suspended	PCA-KA Series	SINGLE	SINGLE	SINGLE	SINGLE TWIN	SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	89
for Professional Kitchen	PCA-HA Series*				SINGLE *			* TWIN		* TRIPLE	94

\* R32 Power Inverter Model only

#### R410A POWER INVERTER Models / R410A STANDARD INVERTER Models

Model Name		3.5kW	5.0kW	6.0kW	7.1kW	10.0kW	12.5kW	14.0kW	20.0kW	25.0kW	Page
would warne		1-phase	1-phase	1-phase	1-phase	1- & 3-phase	1- & 3-phase	1- & 3-phase	3-phase	3-phase	гауе
4-way cassette	PLA Series	SINGLE	SINGLE	SINGLE	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	67
Ceiling-	PEAD Series R410A	SINGLE	SINGLE	SINGLE	SINGLE TWIN	SINGLE	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	76
concealed	PEA Series								SINGLE	SINGLE	81
Wall- mounted	PKA Series R410A	* SINGLE	* Single	* SINGLE	SINGLE * TWIN *	SINGLE TWIN	TWIN	TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TRIPLE QUADRUPLE	84
Ceiling- suspended	PCA-KA Series	SINGLE	SINGLE	SINGLE	SINGLE TWIN *	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	89
for Professional Kitchen	PCA-HA Series*				SINGLE *			* TWIN		* TRIPLE	94
Floor- standing	PSA Series (R410A)				SINGLE *	SINGLE	SINGLE	SINGLE TWIN	TWIN	TWIN TRIPLE	97

\* Power Inverter Models only

# LINE-UP

## MXZ SERIES INVERTER Models

Model Name	Capacity Class	Page
up to 2 indoor units R32 MXZ-2F33VF3	3.3kW <1-phase>	103
up to 2 indoor units R32 MXZ-2F42VF3	4.2kW <1-phase>	103
up to 2 indoor units MXZ-2F53VF(H)3	5.3kW <1-phase>	103
up to 3 indoor units R32 MXZ-3F54VF3	5.4kW <1-phase>	103
up to 3 indoor units R32 MXZ-3F68VF3	6.8kW <1-phase>	103
up to 4 indoor units R32 MXZ-4F72VF3	7.2kW <1-phase>	103
up to 4 indoor units <b>R32</b> MXZ-4F80VF3	8.0kW <1-phase>	103
up to 4 indoor units R32 MXZ-4F83VF	8.3kW <1-phase>	103
up to 5 indoor units R32	10.2kW <1-phase>	103
up to 6 indoor units R32 MXZ-6F122VF	12.2kW <1-phase>	103
up to 2 indoor units R32 MXZ-2HA40VF	4.0kW <1-phase>	107
up to 2 indoor units R32 MXZ-2HA50VF	5.0kW <1-phase>	107
up to 3 indoor units MXZ-3HA50VF	5.0kW <1-phase>	107

Model Name		Capacity Class	Page
up to 2 indoor units R410A MXZ-2D33VA		3.3kW <1-phase>	105
up to 2 indoor units R410A MXZ-2D42VA2		4.2kW <1-phase>	105
up to 2 indoor units MXZ-2D53VA (H)2		5.3kW <1-phase>	105
up to 3 indoor units R410A MXZ-3E54VA		5.4kW <1-phase>	105
up to 3 indoor units R410A MXZ-3E68VA	0	6.8kW <1-phase>	105
up to 4 indoor units R410A MXZ-4E72VA		7.2kW <1-phase>	105
up to 4 indoor units R410A MXZ-4E83VA		8.3kW <1-phase>	105
up to 5 indoor units MXZ-5E102VA		10.2kW <1-phase>	105
up to 6 indoor units MXZ-6D122VA	•	12.2kW <1-phase>	105
up to 2 indoor units MXZ-2DM40VA	0	4.0kW <1-phase>	109
up to 3 indoor units R410A MXZ-3DM50VA	0	5.0kW <1-phase>	109

## 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
PUMYSP R410A	1	~	1		111
PUMY-P (R410A)	1	1	1	1	113

## POWERFUL HEATING SERIES INVERTER Models

Model Nam	ie		2.5kW 1-phase	3.5kW 1-phase	5.0kW 1-phase	5.3kW 1-phase	8.3kW 1-phase	10.0kW	12.5kW 3-phase	Page
	MSZ-L VGHZ Series (R32) (R410A)*		SINGLE	SINGLE	SINGLE					121
Wal	l-mounted	MSZ-FT VGHZ Series SINGLE <sub>H</sub> SINGLE <sub>H</sub> SINGLE <sub>H</sub>			123					
Con	Compact floor MFZ VEHZ Series		SINGLE	SINGLE	SINGLE					127
	4-way cassette (R32) (R410A)							SINGLE TWIN	SINGLE TWIN	130
	Ceiling-concealed	PEAD Series <b>R32</b> <b>R410A</b>						SINGLE		132
	Wall-mounted	PKA Series R32 R410A						SINGLE		133
Mul	ti split	MXZ-F VFHZ Series MXZ-E VAHZ Series R32 (R410A)				2PORT H	4PORT <sub>H</sub>			

\* R410A is for PUMY connection.

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

#### Indoor Combinations

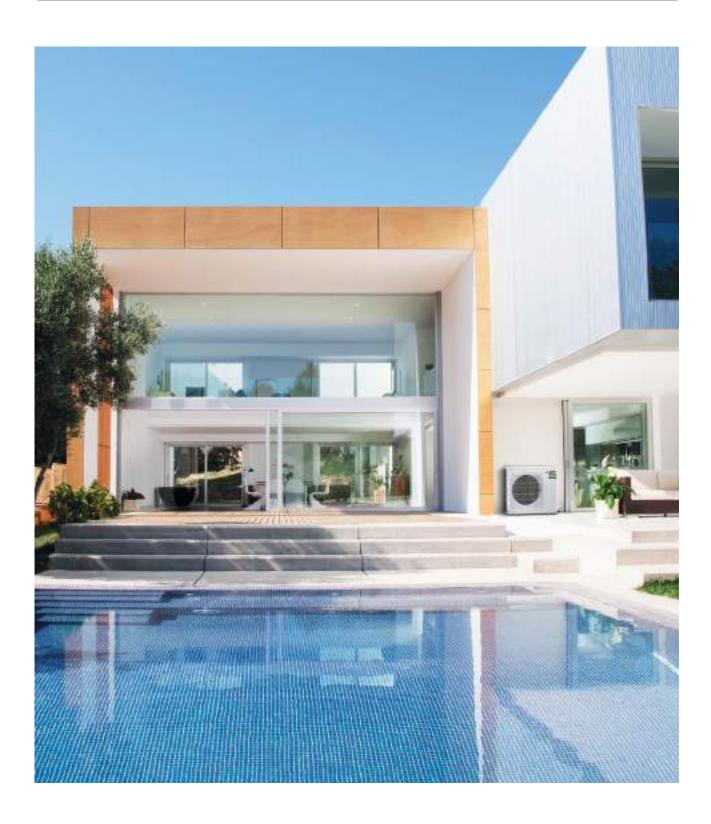
(SINGLE) 1 outdoor unit & 1 indoor unit (TWIN) 1 outdoor unit & 2 indoor units

TRIPLE 1 outdoor unit & 3 indoor units

QUADRUPLE 1 outdoor unit & 4 indoor units

## **LOSSNAY** SERIES

	Centralized Ventilation								
	(	Vertical Type	Wall Moun	ted Type					
LGH-RVX Series	LGH-RVXT Series	GUF Series	GUG Series (Optional Unit)	VL-220CZGV-E	VL-CZPVU Series	VL-100(E)U5-E	VL-50/E)S2-E VL-50SR2-E		





SERIES



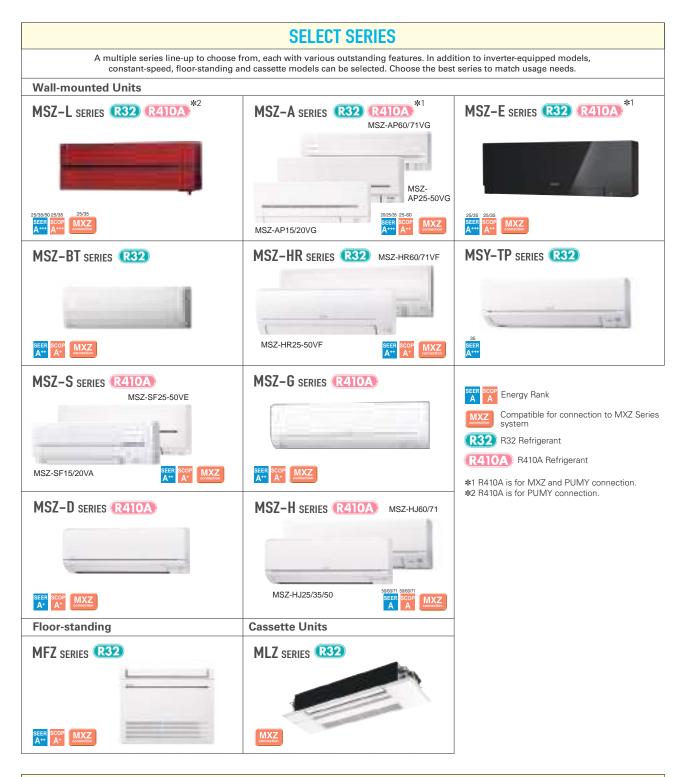






## SELECTION

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-EF25/35VGH MUZ-SF25/35/42/50VEH

MUZ-LN25/35VG

**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°C all day)

 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.



Luminous and Luxurious Design

series.

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.



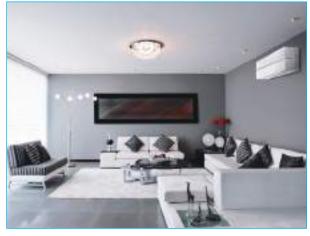
Ruby Red gives an accent to the room, affording timeless elegance to sophisticated interiors.

#### LED Backlight Remote Controller

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

The setting can be easily checked in the dark.





Pearl White blends in with any interior.



Onyx Black matches darker interiors, creating a comfortable environment.





Ruby

Red



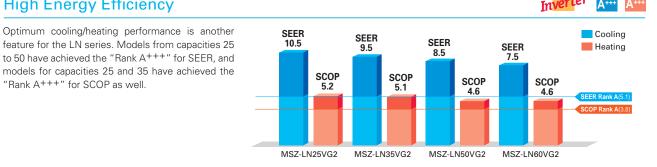
Pearl White

Onyx Black

Natural White

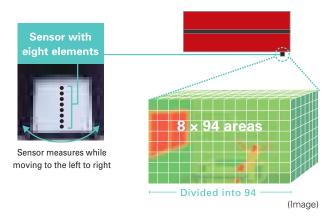
#### **High Energy Efficiency**

"Rank A+++" for SCOP as well.



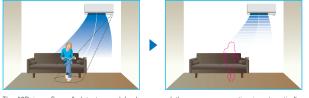
#### 3D i-see Sensor

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

#### **Circulator Operation**

In case the indoor temperature reaches the setting temperature, the outdoor unit stops and the indoor unit starts FAN operation to circulate the indoor air.

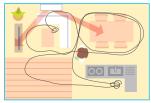
The outdoor unit starts operation automatically when the indoor temperature drops below the setting temperature.

#### **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 the room, even to spaces where there is no human movement.

#### 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.





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



If the heating operation is continued, the warm air is formed around ceiling



This operating can help to circulate and rense warm air

Even airflow mode

**Direct Airflow** 

(cold) day.

This setting can be used to directly target

airflow at people such as for immediate

comfort when coming indoors on a hot



The 3D i-see sensor memorizes human move-

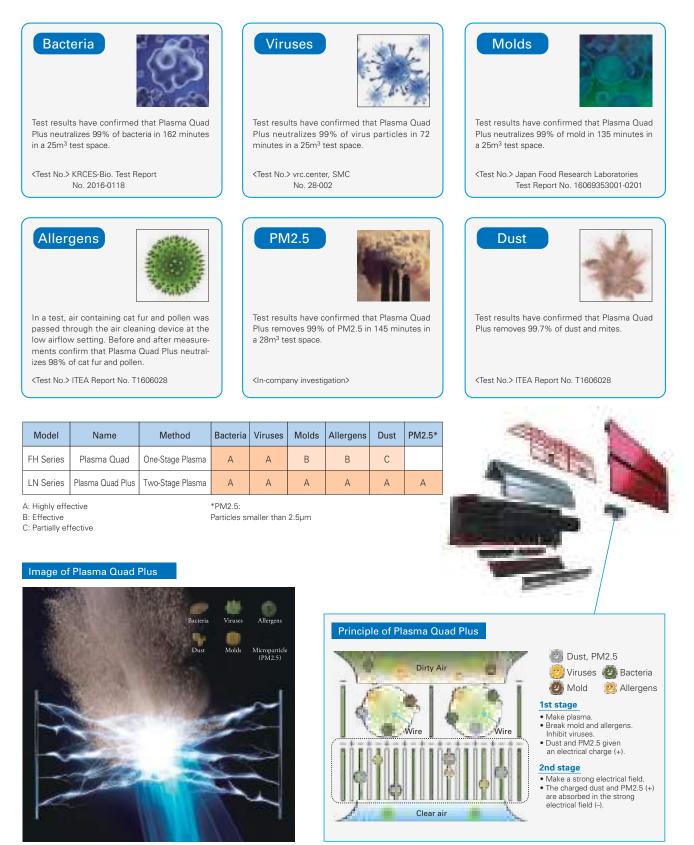
ment and furniture positions, and efficiently distributes airflow.



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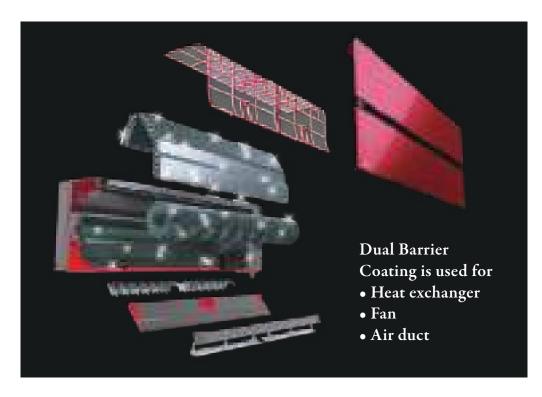
### Plasma Quad Plus

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.



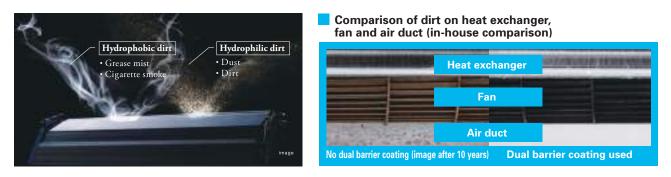


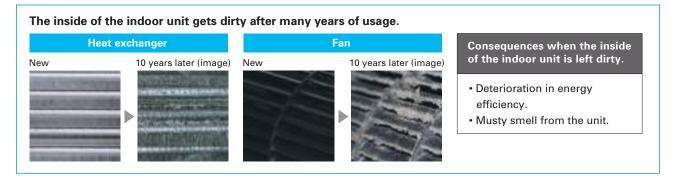
A two-barrier coating prevents dust and greasy dirt from getting into the air conditioner.



#### 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.





#### **Double Flap**

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

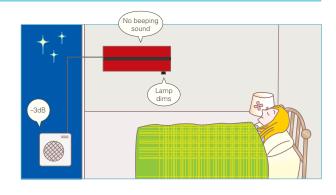




#### Night Mode

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

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



#### 10°C Heating

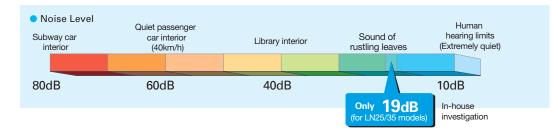
During heating operation, the temperature can be set in  $1^\circ\text{C}$  increments down to  $10^\circ\text{C}.$ 

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



#### **Quiet Operation**

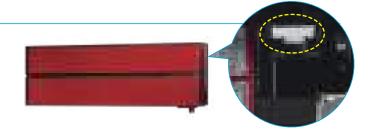
The indoor unit noise level is as low as 19dB for LN25/35 models, offering a peaceful inside environment.

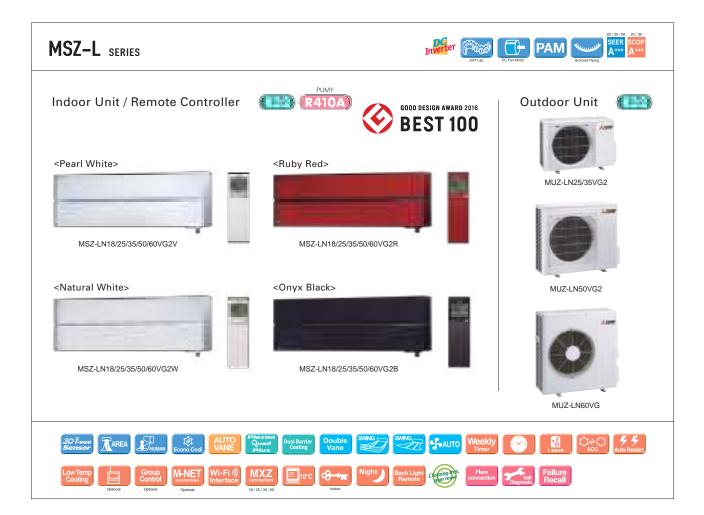


#### Built-in Wi-Fi Interface

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.





Туре						Inverter Heat Pump		
ndoor Ur	nit			MSZ-LN18VG2	MSZ-LN25VG2	MSZ-LN35VG2	MSZ-LN50VG2	MSZ-LN60VG2
Outdoor I	Jnit			for MXZ connection	MUZ-LN25VG2	MUZ-LN35VG2	MUZ-LN50VG2	MUZ-LN60VG
Refrigera	nt				Sir	ngle: R32 <sup>(*1)</sup> / Multi: R410A or R3:	2 <sup>(*1)</sup>	
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	129	205	285
	SEER (*4)			_	10.5	9.5	8.5	7.5
Cooling		Energy efficiency class	;	_	- A+++		A+++	A++
	a	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		kW	_	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)
		at reference design temperature	kW	_	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)
	Declared Capacity	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 (-15°C)
leating	Back up heating	capacity	kW	-	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
verage	Annual electricity	consumption (*2)	kWh/a	-	807	987	1369	1826
eason) <sup>(*5)</sup>	SCOP (*4)			-	5.2	5.1	4.6	4.6
		Energy efficiency class	;	_	A+++	A+++	A++	A++
	O	Rated	kW	-	3.2	4.0	6.0	6.8
	Capacity	Min-Max	kW	_	0.7 - 5.4	0.9 - 6.3	1.0 - 8.2	1.8 - 9.3
	Total Input	nput Rated		-	0.600	0.820	1.480	1.810
peratin	g Current (Max)		A	-	7.1	9.9	13.9	15.2
-	Input	Rated	kW	0.027	0.027	0.027	0.034	0.040
	Operating Current(Max)		A	0.3	0.3	0.3	0.4	0.4
	Dimensions H*W*D		mm	307-890-233	307-890-233	307-890-233	307-890-233	307-890-233
	Weight		kg	14.5 (W) 15.5 (V, R, B)	14.5 (W) 15.5 (V, R, B)	14.5 (W) 15.5 (V, R, B)	15 (W) 16 (V, R, B)	15 (W) 16 (V, R, B)
ndoor Init	Air Volume (SLo-Lo-	Cooling	m <sup>3</sup> /min	4.7 - 5.9 - 7.1 - 9.2 - 12.4	4.7 - 5.9 - 7.1 - 9.2 - 12.4	4.7 - 5.9 - 7.1 - 9.2 - 13.0	5.7 - 7.6 - 8.8 - 10.6 - 13.9	7.1 - 8.8 - 10.6 - 12.7 - 15
m	Mid-Hi-SHi <sup>(+3)</sup> (Dry/Wet))	Heating	m <sup>3</sup> /min	4.5 - 6.6 - 7.5 - 11.0 - 13.9	4.5 - 6.6 - 7.5 - 11.0 - 13.9	4.5 - 6.6 - 7.5 - 11.0 - 13.9	5.4 - 6.4 - 8.5 - 10.7 - 15.7	6.6 - 9.5 - 11.5 - 13.6 - 15
	Sound Level (SPL)	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
	(SLo-Lo-Mid-Hi-SHi(*3))	Heating	dB(A)	19 - 24 - 29 - 38 - 45	19 - 24 - 29 - 38 - 45	19 - 24 - 29 - 38 - 45	25 - 29 - 34 - 39 - 47	29 - 37 - 41 - 45 - 49
	Sound Level (PWL)	Cooling	dB(A)	58	58	59	60	65
	Dimensions	H*W*D	mm	-	550-800-285	550-800-285	714-800-285	880-840-330
	Weight		kg	-	33	34	40	55
	Air Volume	Cooling	m <sup>3</sup> /min	-	34.3	34.3	40.0	50.1
	Air volume	Heating	m <sup>3</sup> /min	-	32.7	32.7	40.5	51.3
utdoor nit	Sound Level (SPL)	Cooling	dB(A)	-	46	49	51	55
	Sound Level (SPL)	Heating	dB(A)	-	49	50	54	55
	Sound Level (PWL)	Cooling	dB(A)	-	60	61	64	65
	Operating Curre	ent (Max)	A	-	6.8	9.6	13.5	14.8
	Breaker Size		A	-	10	10	16	16
	Diameter	Liquid/Gas	mm	-	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7
ixt. Piping	Max.Length	Out-In	m	-	20	20	30	30
.p9	Max.Height	Out-In	m	-	12	12	12	15
Guarante	ed Operating	Cooling	°C	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
Range (C	Dutdoor) 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 CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or KR2 is 675 in the IPOC 4th Assessment the transphere. This appliance contains a refrigerant circuit ("2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located. ("3) SHE. Super High ("4) SEER, SCOP and ther 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 51-52 for heating (warmer season) specifications.

MSZ-AP15/20VG



MSZ-AP25/35/42/50VG

MSZ-AP60/71VG

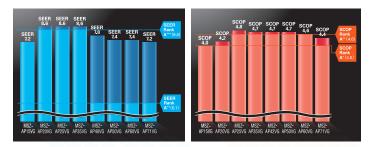




#### High energy saving

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

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<sup>+++</sup>" for SEER. \*MsZ-AP20/25/35VG



#### Compact and stylish

All the classes are introduced as single-split and multi-systems. From small rooms to living rooms, it is possible to coordinate residences with a unified design.



#### Evolved comfortable convenience function

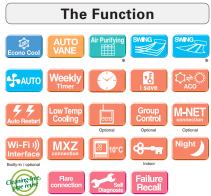
#### **Horizontal Airflow**



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



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



\*Only for 25/35/42/50/60/71 models



MSZ-AP15/20VG

MSZ-AP60/71VG

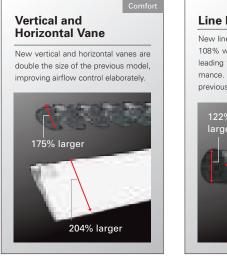
MSZ-AP25/35/42/50VG

178mn

219r







#### Line Flow Fan

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



#### Heat Exchanger

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



#### "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.

	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	es to high-power opera	tion at wake-up time			
8:00								
10:00								
15:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C	
		Automatio	ally turned off during v	vork hours		Midday is warmer, so the temperature is set lower		
14:00	L							
16:00								
18:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	
20:00						Automatically raises ten		
		Automatically tur	ns on, synchronized wi	ith arrival at home			de-air temperature is low	
00:55								
uring 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 en	ergy-saving operation a	t night		

#### Example Operation Pattern (Winter/Heating mode)



Pattern Settings: Input up to four settings for each day

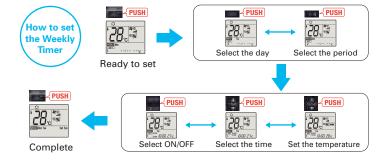
Settings: •Start/Stop operation •Temperature setting \*The operation mode cannot be set.

#### Easy set-up using dedicated buttons



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

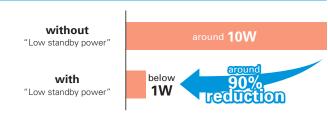




• Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after in-putting all of the desired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

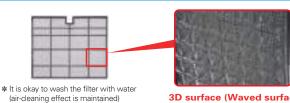
#### Low Standby Power

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.



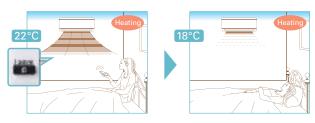
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**3D surface (Waved surface)** 

(MSZ-AP25/35/42/50/60/71)

#### "i save" Mode

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



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

#### **Outdoor Units for Cold Region**

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

(MSZ-AP25/35/42/50)







MUZ-AP25/35/42VG MUZ-AP50VG

MUZ-AP25/35/42VGH MUZ-AP50VGH

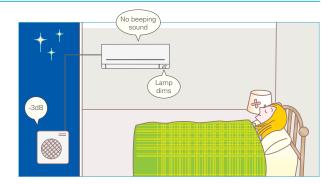
(MSZ-AP20/25/35/42/50/60/71)

#### **Night Mode**

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

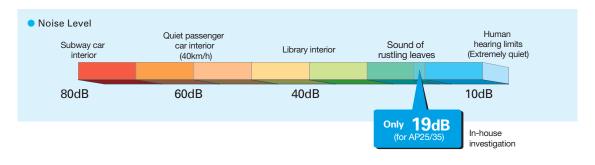
- The brightness of the operation indicator lamp will become dimmer. • The beeping sound will be disabled.
- The outdoor operating noise will drop to 3dB lower than the rated operating noise specification.

\*The cooling/heating capacity may drop.



#### **Quiet Operation**

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



#### **Built-in Wi-Fi Interface**

(MSZ-AP15/20/25/35/42/50/60/71VGK)

The indoor unit is equipped with a Wi-Fi Interface inside an exclusive pocket in the unit. This eliminates the need to install a Wi-Fi interface, and also contributes to the beautiful appearance since the interface is hidden.

#### LED Backlight Remote Controller

Blacklight 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.

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MSZ-A series		
Indoor Unit <b>R32</b> (R410A)	Outdoor Unit (R32)	Remote Controller
MSZ-AP15/20VG(K) reddot award 2018 winner	MUZ-AP20VG	
Natural AUTO SWING SAUTO Weekly Comercial Control White & VANE	tê i save Çi≓Çi Auto Restart ☐ Group Acco Auto Restart ☐ Group Control Connection I	Ni-Fi )) MXZ Back Light nterface connection Remote
Fare connection Failure Recall	Optional Optional Optional	VOK model

Туре						Inverter H	eat Pump		
Indoor U	nit			MSZ-AP15VG(K)	MSZ-AP20VG(K)	MSZ-AP25VG(K)	MSZ-AP25VG(K)	MSZ-AP35VG(K)	MSZ-AP35VG(K)
Outdoor	Unit			MUZ-AP15VG	MUZ-AP20VG	MUZ-AP25VG	MUZ-AP25VGH	MUZ-AP35VG	MUZ-AP35VGH
Refrigera	nt				1	Single: R32 <sup>(*1)</sup> / Mul	ti: R410A or R32 <sup>(*1)</sup>		
Power	Source					Outdoor Po	wer supply		
Supply	Outdoor (V / Ph	ase / Hz )				230 / Si	ngle / 50		
	Design load		kW	1.5	2.0	2.5	2.5	3.5	3.5
	Annual electricity	consumption (*2)	kWh/a	72	81	101	101	142	142
	SEER (14)			7.2	8.6	8.6	8.6	8.6	8.6
Cooling		Energy efficiency class		A++	A+++	A+++	A+++	A+++	A+++
	Capacity	Rated	kW	1.5	2.0	2.5	2.5	3.5	3.5
	Capacity	Min-Max	kW	0.5-2.2	0.6-2.7	0.9-3.4	0.9-3.4	1.1-3.8	1.1-3.8
	Total Input	Rated	kW	0.370	0.460	0.600	0.600	0.990	0.990
	Design load		kW	1.6 (-10°C)	2.3 (-10°C)	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)
		at reference design temperature	kW	1.6 (-10°C)	2.3 (-10°C)	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)
	Declared Capacity	at bivalent temperature	kW	1.6 (-10°C)	2.3 (-10°C)	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)
	oupaony	at operation limit temperature	kW	1.6 (-15°C)	2.2 (-15°C)	2.4 (-15°C)	2.2 (-20°C)	2.6 (-15°C)	2.4 (-20°C)
Heating	Back up heating	capacity	kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
(Average	Annual electricity	consumption (*2)	kWh/a	559	766	698	703	862	873
Season)(15)	SCOP (*4)			4.0	4.2	4.8	4.7	4.7	4.6
		Energy efficiency class		A+	A+	A++	A++	A++	A++
	O	Rated	kW	2.0	2.5	3.2	3.2	4.0	4.0
	Capacity	Min-Max	kW	0.5-3.1	0.5-3.5	1.0-4.1	1.0-4.1	1.3-4.6	1.3-4.6
	Total Input	Rated	kW	0.500	0.600	0.780	0.780	1.030	1.030
Operatin	g Current (Max)		A	5.5	7.0	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)		A	0.17	0.2	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
Indoor	Weight		kg	8.2	8.2	10.5	10.5	10.5	10.5
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	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 - 11.4
0	Mid-Hi-SHi <sup>(*3)</sup> (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 - 12.9
	Sound Level (SPL)	Cooling	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 - 24 - 30 - 36 - 42	19 - 24 - 30 - 36 - 42	19 - 24 - 30 - 36 - 42	19 - 24 - 30 - 36 - 42
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	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	538-699-249	550-800-285	550-800-285	550-800-285	550-800-285	550-800-285
	Weight		kg	23	31	31	31	31	31
	Air Volume	Cooling	m³/min	26	32.2	32.2	32.2	32.2	32.2
Outdoor	· · · · · · · · · · · · · · · · · · ·	Heating	m³/min	21	29.8	29.8	29.8	33.8	33.8
Unit	Sound Level (SPL)	Cooling	dB(A)	50	47	47	47	49	49
	. ,	Heating	dB(A)	50	48	48	48	50	50
	Sound Level (PWL)		dB(A)	63	59	59	59	61	61
	Operating Curre	nt (Max)	A	5.3	6.8	6.8	6.8	8.2	8.2
	Breaker Size		A	10	10	10	10	10	10
Ext.	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
Ext. Piping	Max.Length	Out-In	m	20	20	20	20	20	20
	Max.Height	Out-In	m	12	12	12	12	12	12
	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
Range (C	Dutdoor)	Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24

(11) Refrigerant laskage contributes to climate change. Refrigerant with lower global warming optiential (QWP) would contribute less to global warming that an artifyerant with lower global warming that and low stark article artis article article article article article article ar

MSZ-A series						
Indoor Unit <b>R32 R410A</b> *VGK model Wi-Fi Interface built-in.	Outdoor Unit (R32)	Remote Controller				
MSZ-AP25/35/42/50VG(K)	MUZ-AP25/35/42VG(H) MUZ-AP50VG(H)/60VG	((((				
GOOD DESIGN AWARD 2017 reddot award 2018						
MSZ-AP60/71VG(K)	MUZ-AP71VG					
Econo Cool White A AUTO Silver-ion Air Purifying SWNG SWNG	KAUTO Weekly Weekly I isave Q → CO     Korrison	Auto Restart Low Temp Cooling Corrat				
Group Control Opticnal Cpricna	Back Light Remote					

Туре						Inverter H	leat Pump		
Indoor U	nit			MSZ-AP42VG(K)	MSZ-AP42VG(K)	MSZ-AP50VG(K)	MSZ-AP50VG(K)	MSZ-AP60VG(K)	MSZ-AP71VG(K)
Outdoor	Unit			MUZ-AP42VG	MUZ-AP42VGH	MUZ-AP50VG	MUZ-AP50VGH	MUZ-AP60VG	MUZ-AP71VG
Refrigera	nt				Single: R32 <sup>(*1)</sup> / Mu	ti: R410A or R32 <sup>(*1)</sup>		Single	R32 <sup>(*1)</sup>
Power	Source					Outdoor Po	ower 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	188	188	236	236	288	345
	SEER (*4)			7.8	7.8	7.4	7.4	7.4	7.2
Cooling		Energy efficiency class		A++	A++	A++	A++	A++	A++
	a	Rated	kW	4.2	4.2	5.0	5.0	6.1	7.1
	Capacity	Min-Max	kW	0.9-4.5	0.9-4.5	1.4-5.4	1.4-5.4	1.4-7.3	2.0-8.7
	Total Input	Rated	kW	1.300	1.300	1.550	1.550	1.590	2.010
	Design load		kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)
		at reference design temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)
	Declared Capacity	at bivalent temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)
	Capacity	at operation limit temperature	kW	4.2 (-15°C)	3.8 (-20°C)	4.7 (-15°C)	4.2 (-20°C)	3.7 (-15°C)	5.4 (-15°C)
Heating	Back up heating	capacity	kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
Average	Annual electricity	consumption (*2)	kWh/a	1120	1134	1250	1275	1398	2132
Season) <sup>(*5)</sup>	SCOP (14)			4.7	4.6	4.7	4.6	4.6	4.4
		Energy efficiency class		A++	A++	A++	A++	A++	A+
	0	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	2.0-8.6	2.2-10.3
	Total Input	Rated	kW	1.490	1.490	1.600	1.600	1.670	2.120
Operatin	g Current (Max)		A	9.9	9.9	13.6	13.6	14.1	16.4
	Input	Rated	kW	0.032	0.032	0.032	0.032	0.049	0.045
	Operating Current (Max)		A	0.3	0.3	0.3	0.3	0.5	0.4
	Dimensions	H*W*D	mm	299-798-219	299-798-219	299-798-219	299-798-219	325-1100-257	325-1100-257
	Weight		kg	10.5	10.5	10.5	10.5	16.0	17.0
Indoor Unit	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	9.4 - 11.0 - 13.2 - 16.0 - 18.9	9.6 - 11.5 - 13.2 - 15.3 - 18.
onne	Mid-Hi-SHi <sup>(*3)</sup> (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	10.8-13.4 - 15.4 - 17.4 - 20.3	10.2-11.5 - 13.2 - 15.3 - 19.
	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	29 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 49
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	21 - 29 - 35 - 40 - 45	21 - 29 - 35 - 40 - 45	28 - 33 - 38 - 43 - 48	28 - 33 - 38 - 43 - 48	30 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 51
	Sound Level (PWL)	Cooling	dB(A)	57	57	58	58	65	65
	Dimensions	H*W*D	mm	550-800-285	550-800-285	714-800-285	714-800-285	714-800-285	880-840-330
	Weight		kg	35	35	40	40	40	55
	Air Volume	Cooling	m³/min	30.4	30.4	40.5	40.5	52.1	54.1
Outdoor	All Volume	Heating	m³/min	32.7	32.7	40.5	40.5	52.1	47.9
Jutaoor Jnit	Sound Level (SPL)	Cooling	dB(A)	50	50	52	52	56	56
		Heating	dB(A)	51	51	52	52	57	55
	Sound Level (PWL)	Cooling	dB(A)	61	61	64	64	69	69
	Operating Curre	ent (Max)	A	9.6	9.6	13.3	13.3	13.6	16.0
	Breaker Size		A	10	10	16	16	16	20
Ext.	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7
Ext. Pipina	Max.Length	Out-In	m	20	20	20	20	30	30
	Max.Height	Out-In	m	12	12	12	12	15	15
	eed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
Range (C	Dutdoor)	Heating	°C	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24

(11) Retrigent lakage contributes to climate change. Retrigerant with lower global warming potential (QWP) would contribute less to global warming that an artigerant with lower global warming that and lower global warming that artigerant fluid warming that and lower global warming that and lower global warming that artigerant fluid warming that artigerant global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit (2) Energy consumption has and standard test results. Actual energy consumption wild be period to standard test results. Actual energy consumption was artificated test results. Actual energy consumption wild depend on how the appliance is used and where it is located.
(3) SH1: 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 51-52 for heating (warmer season) specifications.



#### Stylish Line-up Matches Any Room Décor

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



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

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

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

#### Quiet Comfort All Day Long

Mitsubishi Electric's advanced "Silent Mode" fan speed setting provides super-quiet operation as low as 19dB for EF18/22/25 models for cooling. This unique feature makes the Kirigamine ZEN series ideal for use in any situation.

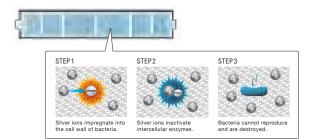
#### Superior Exterior and Operating Design Concept

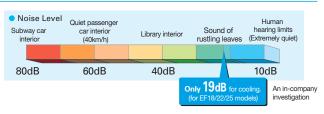
The indoor unit of the Kirigamine ZEN keeps its amazingly thin form even during operation. The only physical change notable is the movement of the variable vent. As a result, a slim attractive look is maintained.



#### Silver-ionized Air Purifier Filter

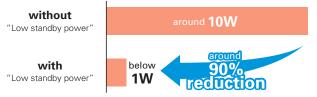
The high performance filter is attached as standard. Captures the bacteria, pollen and other allergens in the air and neutralises them.





#### Low Standby Power

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



#### Outdoor Units for Cold Region

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

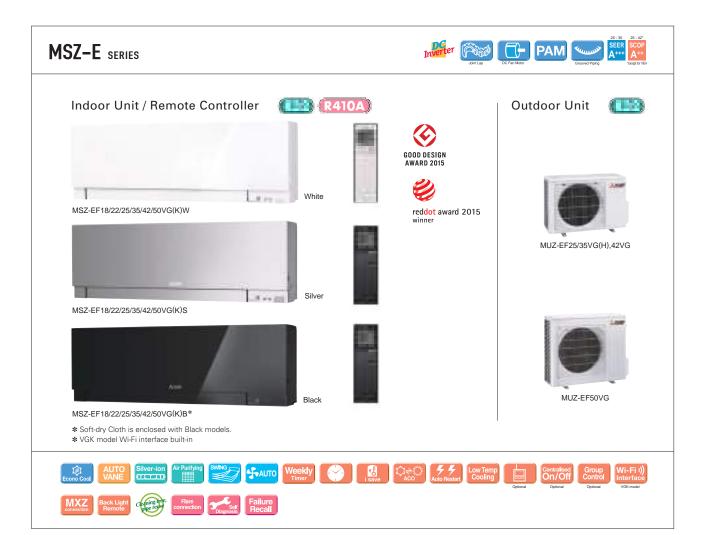




(25/35)

MUZ-EF25/35VG

MUZ-EF25/35VGH



Type Inverter Heat Pump												
Indoor Ur	nit			MSZ-EF18VG(K)	MSZ-EF22VG(K)	MSZ-EF25VG(K)	MSZ-EF25VG(K)	MSZ-EF35VG(K)	MSZ-EF35VG(K)	MSZ-EF42VG(K)	MSZ-EF50VG(K)	
Outdoor I	Jnit			for MXZ c	onnection	MUZ-EF25VG	MUZ-EF25VGH	MUZ-EF35VG	MUZ-EF35VGH	MUZ-EF42VG	MUZ-EF50VG	
Refrigerar	nt						R3	2(*1)				
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	4.2	5.0	
	Annual electricity	consumption (*2)	kWh/a	-	-	96	96	139	139	186	233	
	SEER (*4)			-	-	9.1	9.1	8.8	8.8	7.9	7.5	
Cooling		Energy efficiency class		-	-	A+++	A+++	A+++	A+++	A++	A++	
	Capacity	Rated	kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0	
	Capacity	Min-Max	kW	-	-	0.9-3.4	0.9-3.4	1.1-4.0	1.1-4.0	0.9-4.6	1.4-5.4	
	Total Input	Rated	kW	-	-	0.540	0.540	0.910	0.910	1.200	1.540	
	Design load	·	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	
		at reference design temperature	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	
	Declared Capacity	at bivalent temperature	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	
	Capacity	at operation limit temperature	kW	-	-	2.0 (-15°C)	1.6 (-20°C)	2.4 (-15°C)	1.7 (-20°C)	3.4 (-15°C)	3.5 (-15°C)	
Heating	Back up heating	capacity	kW	-	-	0.0 (-10°C)						
(Average	Annual electricity	consumption (*2)	kWh/a	-	-	713	727	882	900	1151	1304	
Season)(*5)	SCOP (*4)	•		-	-	4.7	4.6	4.6	4.5	4.6	4.5	
	Energy efficiency class			-	-	A++	A++	A++	A+	A++	A+	
		Rated	kW	-	-	3.2	3.2	4.0	4.0	5.4	5.8	
	Capacity	Min-Max	kW	-	-	1.0-4.2	1.0-4.2	1.3-5.1	1.3-5.1	1.3-6.3	1.4-7.5	
	Total Input	Rated	kW	-	_	0.700	0.700	0.950	0.950	1.455	1.560	
Operatin	g Current (Max)	1 katob	A	-	-	7.1	7.1	7.1	7.1	10.0	14	
oporating	Input	Rated	kW	0.026	0.026	0.026	0.026	0.030	0.030	0.033	0.043	
	Operating Curre		A	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	
	Dimensions	H*W*D	mm	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	
	Weight		kg	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	
Indoor	Air Volume (SLo-Lo-	Cooling	m <sup>3</sup> /min	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5			5.8 - 6.6 - 7.7 - 8.9 - 11.2	5.8 - 6.8 - 7.9 - 9.2 - 11.3	
Unit	Mid-Hi-SHi <sup>(*3)</sup> (Dry/Wet))	Heating	m <sup>3</sup> /min	4.0 - 4.6 - 6.2 - 8.9 - 11.9	4.0 - 4.6 - 6.2 - 8.9 - 11.9	4.0 - 4.6 - 6.2 - 8.9 - 11.9	4.0 - 4.6 - 6.2 - 8.9 - 11.9	4.0 - 4.6 - 6.2 - 8.9 - 12.7	4.0 - 4.6 - 6.2 - 8.9 - 12.7		6.4 - 7.2 - 9.0 - 11.1 - 14.0	
	Sound Level (SPL)	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 23 - 29 - 36 - 42	19 - 23 - 29 - 36 - 42	19 - 23 - 29 - 36 - 42		21 - 24 - 30 - 36 - 42	28 - 31 - 35 - 39 - 43	30 - 33 - 36 - 40 - 43	
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)		21 - 24 - 29 - 37 - 45				21 - 24 - 30 - 38 - 46		30 - 33 - 37 - 43 - 49	
	Sound Level (PWL)	Cooling	dB(A)	60	60	60	60	60	60	60	60	
	Dimensions	H*W*D	mm	-		550-800-285	550-800-285	550-800-285	550-800-285	550-800-285	714-800-285	
	Weight	11 W D	kg	-	-	31	31	34	34	35	40	
	weight	Cooling	m <sup>3</sup> /min	-	_	27.8	27.8	34.3	34.3	32.0	40.2	
	Air Volume	Heating	m <sup>3</sup> /min	-	-	29.8	29.8	32.7	32.7	32.7	40.2	
Outdoor		Cooling	dB(A)	-	-	47	47	49	49	50	52	
Unit	Sound Level (SPL)	Heating	dB(A)	-	-	47	47	49	49	51	52	
	Sound Level (PWL)	Cooling	dB(A)	-	-	58	58	62	62	62	65	
	Operating Curre		A A	-	-	6.8	6.8	6.8	6.8	9.6	13.6	
	Operating Curre Breaker Size	ant (widx)			-	6.8	10	10	10	9.6	13.6	
		Linuid/One	A	-	-							
Ext.	Diameter	Liquid/Gas	mm			6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	
Piping	Max.Length	Out-In	m	-	-	20	20	20	20	20	30	
	Max.Height	Out-In	m	-	-	12	12	12	12	12	15	
	ed Operating	Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
Range (O	uluoor)	Heating	°C	-	-	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24	

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or GRAS before than 0 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or GRAS before than 0 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or GRAS before than 0 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or GRAS before than 0 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or GRAS before the structure than 0 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or GRAS before the structure the results. Actual energy consumption was denoted and where it is located.
(3) EFRIS COP 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 51-52 for heating (warmer season) specifications.

# MSZ-BT SERIES

#### High Energy Efficiency for Entire Range of Series

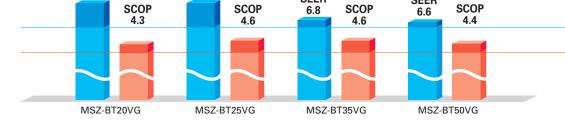
SEER

8.1

All models in the series, from the low-capacity 20 to the high-capacity 50, have achieved the "Rank A<sup>++</sup>" for SEER and size 25 and 35 have achived the "Rank A<sup>++</sup>" 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.

SEER

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

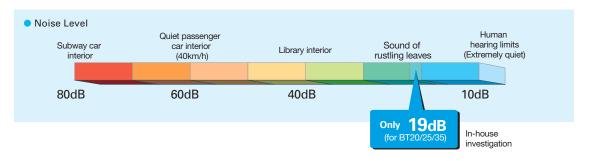


#### **Quiet Operation**

SEER

8.1

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



**New Remote Controller** 

New stylish and compact remote controller features easy-read big display and simple button position with fundamental functions.



#### Built-in Wi-Fi Interface

(MSZ-BT20/25/35/50VGK)

VGK) Interface

Heating

SEER Rank A++(6.1)

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.



SEER

MSZ-BT SERIES		SEER SCOP A++ A+
Indoor Unit 💶	Outdoor Unit	Remote Controller
MSZ-BT20/25/35/50VG(K)	Image: wide wide wide wide wide wide wide wide	
	to Restart Low Temp Centralised On/Off Control Octoral	8
Connection Fair Failure Recall	-churung churung churung churung	#15501

ype					Inverter	Heat Pump	
ndoor Ur	nit			MSZ-BT20VG(K)	MSZ-BT25VG(K)	MSZ-BT35VG(K)	MSZ-BT50VG(K)
Jutdoor	Unit			MUZ-BT20VG	MUZ-BT25VG	MUZ-BT35VG	MUZ-BT50VG
efrigera	nt				R	32(1)	
ower	Source				Outdoor F	Power supply	
lpbly	Outdoor (V / Ph	ase / Hz )			230V/S	ingle/50Hz	
	Design load		kW	2.0	2.5	3.5	5.0
	Annual electricity	consumption ("2)	kWh/a	86	108	180	265
	SEER (14)			8.1	8.1	6.8	6.6
ooling		Energy efficiency class	6	A++	A++	A++	A++
	Capacity	Rated	kW	2.0	2.5	3.5	5.0
	Capacity	Min-Max	kW	0.5-2.9	0.5-3.0	0.9-3.5	1.3-5.0
	Total Input	Rated	kW	0.450	0.700	1.240	2.050
	Design load		kW	1.5 (-10°C)	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
		at reference design temperature	kW	1.5 (-10°C)	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
	Declared Capacity	at bivalent temperature	kW	1.5 (-10°C)	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
	Capacity	at operation limit temperature	kW	1.3 (-15°C)	1.7 (-15°C)	2.1 (-15°C)	3.4 (-15°C)
leating	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) kW			487	577	727	1209
ison) <sup>(*5)</sup>	SCOP (*4)			4.3	4.6	4.6	4.4
		Energy efficiency class	6	A+	A++	A++	A+
	Capacity	Rated	kW	2.5	3.15	3.6	5.4
	Capacity	Min-Max	kW	0.7-3.2	0.7-3.5	0.9-4.1	1.4-6.5
	Total Input	Rated	kW	0.550	0.750	0.930	1.550
eratin	g Current (Max)		A	5.6	7.0	7.0	10.0
	Input	Rated	kW	0.024	0.024	0.031	0.037
	Operating Current(Max)		A	0.25	0.25	0.31	0.35
	Dimensions	H*W*D	mm	280-838-235	280-838-235	280-838-235	280-838-235
	Weight		kg	9	9	9	9
loor it	Air Volume (Lo-Mid-	Cooling	m³/min	4.2 - 5.2 - 6.8 - 8.7 - 10.9	4.2 - 5.2 - 6.8 - 8.7 - 10.9	4.2 - 5.2 - 6.8 - 8.7 - 13.2	6.3 - 7.6 - 9.0 - 11.0 - 13.2
iii.	Hi-SHi <sup>(*3)</sup> (Dry/Wet))	Heating	m³/min	4.2 - 5.0 - 6.8 - 9.0 - 11.9	4.2 - 5.0 - 6.8 - 9.0 - 11.9	4.2 - 5.0 - 6.8 - 9.0 - 11.9	6.0 - 7.8 - 9.9 - 11.9 - 14.1
	Sound Level (SPL)	Cooling	dB(A)	19 - 22 - 30 - 37 - 43	19 - 22 - 30 - 37 - 43	19 - 22 - 31 - 38 - 46	29 - 33 - 36 - 40 - 46
	(Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	20 - 23 - 30 - 37 - 43	20 - 23 - 30 - 37 - 43	20 - 23 - 30 - 37 - 44	29 - 33 - 38 - 43 - 48
	Sound Level (PWL)	Cooling	dB(A)	57	57	60	60
_	Dimensions	H*W*D	mm	538-699-249	538-699-249	538-699-249	550-800-285
	Weight		kg	23	24	24	35
	Air Volume	Cooling	m³/min	30.3	32.2	32.2	30.4
tdoor	All Volume	Heating	m³/min	30.3	32.2	34.6	32.7
taoor it	Sound Level (SPL)	Cooling	dB(A)	50	50	52	50
		Heating	dB(A)	50	50	52	51
	Sound Level (PWL)	Cooling	dB(A)	63	63	64	64
	Operating Curre	ent (Max)	A	5.3	6.7	6.7	9.6
	Breaker Size		A	10	10	10	12
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7
t. ping	Max.Length	Out-In	m	20	20	20	20
5.119	Max.Height	Out-In	m	12	12	12	12
	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
ange (C	Dutdoor) Heating		°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

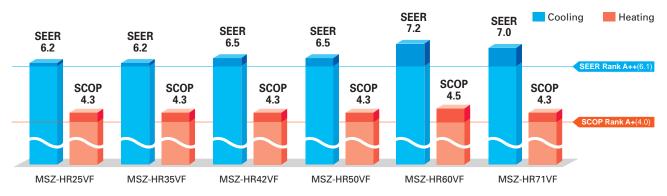
(1) Refigerant lackage contributes to climate change. Refrigerant with lower global warning potential (GWP) would contribute less to global warning than a refrigerant with ligher GWP. If lacked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be lacked to the atmosphere, the impact on global warning would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant clicuit yourself or product yourself or product yourself and always ask a professional. The GWP of R2 is 675 in the IPCC 4th Assessment Report. (2) Energy consumption based on standard test results. Actual energy consumption wild 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 51-52 for heating (warmer season) specifications.



Compact, high-performance indoor and outdoor units with R32 that is low global warming potential compared with the current refrigerant R410A contribute to room comfort and to prevent global warming.

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





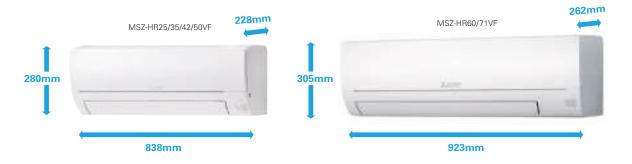
All models in the series, from capacity 25 to 71, have achieved the "Rank A<sup>++</sup>" for SEER and "Rank A<sup>+</sup>" for SCOP as energy-savings rating, thanks to Mitsubishi Electric's inverter technologies which are adopted to provide automatic adjustment of operation load according to need.

MSZ-HR25/35/42/50VF

MSZ-HR60/71VF

#### Simple and Friendly Design

The round front surface provides a simple and friendly impression. And the width of indoor unit is compact, making installation in smaller, tighter spaces possible.



#### Wi-Fi and System Control

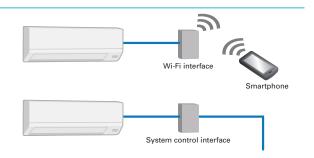
#### Wi-Fi Interface (Optional)

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-40MAA is possible.
- •Centralised control is possible when connected to M-NET.

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



MSZ-HR series	Inverter	Der Lap	SEER A++
Indoor Unit 🛛 💶 💷	Outdoor Unit		Remote Controller
- 7.48	0	0	((((
MSZ-HR25/35/42/50VF	MUZ-HR25VF	MUZ-HR35VF	連に
MSZ-HR60/71VF	MUZ-HR42/50VF	MUZ-HR60/71VF	
Image: Statural Econo Gool     Natural White & VANE     Silver-ion Statural Constraints     Silver-ion Statural Constraints       Image: Statural Econo Gool     White & VANE     Silver-ion Statural Constraints     Silver-ion Statural Constraints       Image: Statural Econo Gool     Training Statural Constraints     Silver-ion Statural Constraints     Silver-ion Statural Constraints       Image: Statural Econo Gool     Training Statural Constraints     Silver-ion Statural Constraints     Silver-ion Statural Constraints       Image: Statural Econo Gool     Training Statural Constraints     Silver-ion Statural Constraints     Silver-ion Statural Constraints       Image: Statural Econo Gool     Training Statural Constraints     Silver-ion Statural Constraints     Silver-ion Statural Constraints	40 Restart Low Temp Cooling Low Contrained Copional Contrained Copional Contrained	Group Control Optional Optional Mo2 OM only	Flare

Type         Inverter Heat Pump           Indoor Unit         MSZ-HR25VF         MSZ-HR35VF         MSZ-HR42VF         MSZ-HR60VF         MSZ-HR60VF <th></th>									
Indoor Ur	nit			MSZ-HR25VF	MSZ-HR35VF	MSZ-HR42VF	MSZ-HR50VF	MSZ-HR60VF	MSZ-HR71VF
Outdoor I	Unit			MUZ-HR25VF	MUZ-HR35VF	MUZ-HR42VF	MUZ-HR50VF	MUZ-HR60VF	MUZ-HR71VF
Refrigerar	nt					R3	2(*1)	·	
Power	Source					Outdoor Po	ower supply		
Supply	Outdoor (V / Ph	ase / Hz )				230V/Sir	igle/50Hz		
	Design load		kW	2.5	3.4	4.2	5.0	6.1	7.1
	Annual electricity	consumption (*2)	kWh/a	141	191	226	269	296	355
	SEER (*4)			6.2	6.2	6.5	6.5	7.2	7.0
Cooling		Energy efficiency class		A++	A++	A++	A++	A++	A++
	Capacity	Rated	kW	2.5	3.4	4.2	5.0	6.1	7.1
	Capacity	Min-Max	kW	0.5-2.9	0.9-3.4	1.1-4.6	1.3-5.0	1.7-7.1	1.8-7.3
	Total Input	Rated	kW	0.800	1.210	1.340	2.050	1.810	2.330
	Design load	··	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
		at reference design temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
	Declared Capacity	at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
	Capacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
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 Season) <sup>(75)</sup>	Annual electricity consumption (*2) kWh/a		kWh/a	614	781	928	1224	1430	1755
	SCOP (*4)	SCOP (*4)		4.3	4.3	4.3	4.3	4.5	4.3
	Energy efficiency class			A+	A+	A+	A+	A+	A+
		Rated	kW	3.15	3.6	4.7	5.4	6.8	8.1
	Capacity	Min-Max	kW	0.7-3.5	0.9-3.7	0.9-5.4	1.4-6.5	1.5-8.5	1.5-9.0
	Total Input	Rated	kW	0.850	0.975	1.300	1.550	1.810	2,440
Operatin	g Current (Max)		A	5.0	6.7	8.5	10.0	14.1	14.1
	Input	Rated	kW	0.020	0.028	0.032	0.039	0.055	0.055
	Operating Current(Max)		A	0.2	0.27	0.3	0.36	0.5	0.5
	Dimensions	H*W*D	mm	280-838-228	280-838-228	280-838-228	280-838-228	305-923-262	305-923-262
	Weight		kg	8.5	8.5	9	9	12.5	12.5
Indoor	Air Volume (Lo-Mid-	Cooling	m <sup>3</sup> /min	3.6 - 5.4 - 7.2 - 9.7	3.6 - 5.6 - 7.8 - 11.7	6.0 - 8.7 - 10.8 - 13.1	6.4 - 9.2 - 11.2 - 13.1	10.4 - 12.6 - 15.4 - 19.6	10.4 - 12.6 - 15.4 - 19.6
Unit	Hi-SHi <sup>(*3)</sup> (Dry/Wet))	Heating	m <sup>3</sup> /min	3.3 - 5.4 - 7.4 - 10.1	3.3 - 5.4 - 7.4 - 10.5	5.6 - 7.9 - 10.8 - 13.4	6.1 - 8.3 - 11.2 - 14.5	10.7 - 13.1 - 16.7 - 19.6	10.7 - 13.1 - 16.7 - 19.6
	Sound Level (SPL)	Cooling	dB(A)	21 - 30 - 37 - 43	22 - 31 - 38 - 46	24 - 34 - 39 - 45	28 - 36 - 40 - 45	33 - 38 - 44 - 50	33 - 38 - 44 - 50
	(Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	21 - 30 - 37 - 43	21 - 30 - 37 - 44	24 - 32 - 40 - 46	27 - 34 - 41 - 47	33 - 38 - 44 - 50	33 - 38 - 44 - 50
	Sound Level (PWL)	Cooling	dB(A)	57	60	60	60	65	65
	Dimensions	H*W*D	mm	538-699-249	538-699-249	550-800-285	550-800-285	714-800-285	714-800-285
	Weight		kg	23	24	34	35	40	40
		Cooling	m <sup>3</sup> /min	30.3	32.2	30.4	30.4	42.8	42.8
	Air Volume	Heating	m³/min	30.3	32.2	32.7	32.7	48.3	48.3
Outdoor		Cooling	dB(A)	50	51	50	50	53	53
Unit	Sound Level (SPL)	Heating	dB(A)	50	51	51	51	57	57
	Sound Level (PWL)		dB(A)	63	64	64	64	65	66
	Operating Curre		A	4.8	6.4	8.2	9.6	13.6	13.6
	Breaker Size		A	10	10	10	12	16	16
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7
Ext.	Max.Length	Out-In	m	20	20	20	20	30	30
Piping	Max.Height	Out-In	m	12	12	12	12	15	15
Guarante	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
Range (C		Heating	0°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24
	,	, , , , , , , , , , , , , , , , , , ,				- IU ~ +24			

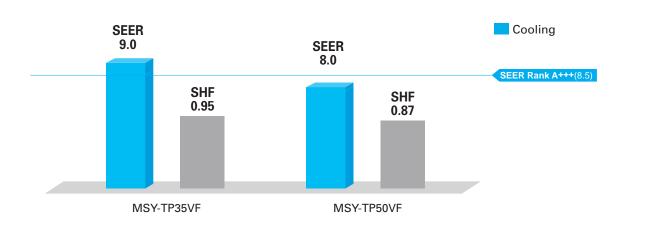
(1) Refigurant leakage contributes to climate change. Refrigerant with lower global warming optical (GWP) would contribute less to global warming that a refrigerant with lower global warming that a refrigerant global warming that a refr





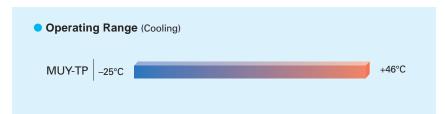
Cooling only model with high-perfomance provide high SHF in various environments thanks to wide operation range.

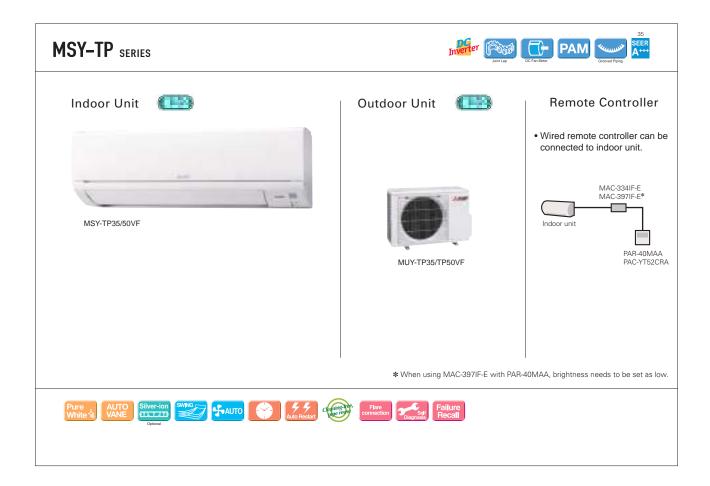
#### High Energy-Saving Performance with High SHF



#### Wide Cooling Operating Range

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





Туре				Inverter Heat Pump		
Indoor Unit				MSY-TP35VF	MSY-TP50VF	
Outdoor Unit				MUY-TP35VF	MUY-TP50VF	
Refrigerant				B3		
Power Source				Indoor Power supply		
Supply				230V / Single / 50Hz		
Cooling	Design load		kW	3.5	5.0	
	Annual electricity consumption (*2)		kWh/a	136	218	
	SEER (14)			9.0	8.0	
		Energy efficiency class		A+++	A++	
		Rated	kW	3.5	5.0	
	Capacity	Min-Max	kW	1.5 - 4.0	1.5 - 5.7	
	Total Input	Rated	kW	0.760	1.450	
Heating (Average Season) <sup>(*6)</sup>	Design load		kW	-	-	
		at reference design temperature	kW	-	-	
	Declared Capacity	at bivalent temperature	kW	-	-	
	Capacity	at operation limit temperature	kW	-	-	
	Back up heating capacity		kW	-	-	
	Annual electricity consumption (*2)		kWh/a	-	=	
	SCOP (*4)			-	-	
		Energy efficiency class		-	-	
	Capacity	Rated	kW	-	-	
		Min-Max	kW	-	-	
	Total Input	Rated	kW	-	-	
Operating Current (Max)		A	9.6	9.6		
Indoor Unit	Input	Rated	kW	0.033	0.034	
	Operating Current (Max)		A	0.4	0.4	
	Dimensions	H*W*D	mm	305-923-250	305-923-250	
	Weight		kg	12.5	12.5	
	Air Volume (Lo-Mid-	Cooling	m³/min	10.1 - 11.6 - 13.7 - 16.4	10.1 - 11.6 - 13.7 - 16.4	
	Hi-SHi <sup>(*3)</sup> (Dry/Wet))	Heating	m³/min	-	-	
	Sound Level (SPL)	Cooling	dB(A)	31 - 36 - 40 - 45	31 - 36 - 40 - 45	
	(Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	-	-	
	Sound Level (PWL)	Cooling	dB(A)	60	60	
	Breaker Size		A	10	10	
Outdoor Unit	Dimensions H*W*D		mm	550-800-285	550-800-285	
	Weight	1	kg	34	34	
	Air Volume Sound Level (SPL)	Cooling	m³/min	29.3	29.3	
		Heating	m³/min	-	-	
		Cooling	dB(A)	45	47	
		Heating	dB(A)	-	-	
	Sound Level (PWL) Cooling		dB(A)	58	61	
	Operating Current (Max)		A	9.2	9.2	
Ext. Piping	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	
	Max.Length	Out-In	m	20	20	
	Max.Height	Out-In	m	12	12	
	ed Operating	Cooling	°C	-25 ~ +46	-25 ~ +46	
Range (O	uuuoor)	Heating	°C	-	-	

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warning potential (GWP) would contribute less to global warning 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 11 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warning would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of IR32 is 675 in the IPOC 4th Assessment Report.
(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(3) SH: Super High
(4) SEER and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011.







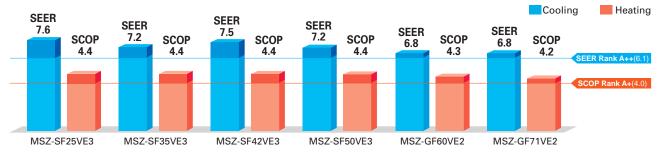
Introducing a compact and stylish indoor unit with amazingly quiet performance. Not only are neat installations in small bedrooms possible, increase energy-savings by selecting the optimal capacity required for each room.



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

Inverter A++ 25-71 SCOP A++ A+

All models in the series, from the low-capacity 25 to the high-capacity 71, have achieved the "Rank A<sup>++</sup>" for SEER and "Rank A<sup>+</sup>" 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)

	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
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 operat	tion at wake-up time		
OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
	Automatic		Midday is warmer, so the temperatur			
ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
	Automatically turn	ns on, synchronized wi	th arrival at home		Automatically raises ten match time when outsid	nperature setting to le-air temperature is low
ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
	Automa	itically lowers tempera	ture at bedtime for ene	ergy-saving operation a	t night	
	OFF	OFF OFF Automatic ON 20°C ON 20°C Automatically turn ON 18°C ON 18°C	OFF     OFF     OFF       ON 20°C     ON 20°C     ON 20°C       Automatically turns on, synchronized wi     Automatically turns on, synchronized wi       ON 18°C     ON 18°C	OFF     OFF     OFF       OFF     OFF     OFF       Automatically turned off during work hours     ON 20°C     ON 20°C       ON 20°C     ON 20°C     ON 20°C       Automatically turns on, synchronized with arrival at home       ON 18°C     ON 18°C     ON 18°C	OFF       OFF       OFF       OFF       OFF         Automatically turned off during work hours       Automatically turned off during work hours       ON 20°C       ON 20°C	OFF       OFF       OFF       OFF       OFF       OFF       Midday is warmer, so the temperature         ON 20°C       Automatically turns on, synchronized with arrival at home       Automatically raises ten match time when outside

Pattern Settings: Input up to four settings for each day

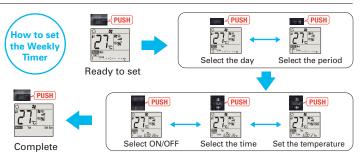
Settings Settings: •Start/Stop operation •Temperature setting \*The operation mode cannot be set.

#### Easy set-up using dedicated buttons -



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





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

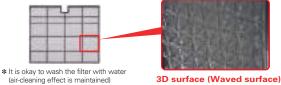
#### Low Standby Power

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

#### **Air Purifying Filter**

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

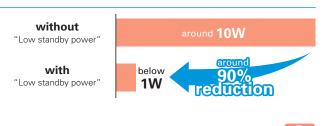
This filter generates stable antibacterial and deodourising effects. The size of the three-dimensional surface has been increased as well, enlarging the filter capture area. These features give the Air Purifying Filter better dust collection performance than conventional filters. The superior air-cleaning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





#### **Outdoor Units for Cold Region** (25/35/42/50)

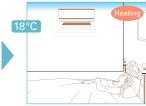
Single split-type outdoor units are available in both standard and heater-equipped units. An electric heater is installed in each unit to prevent freezing in cold outdoor environments



#### "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.

MUZ-SF50VE



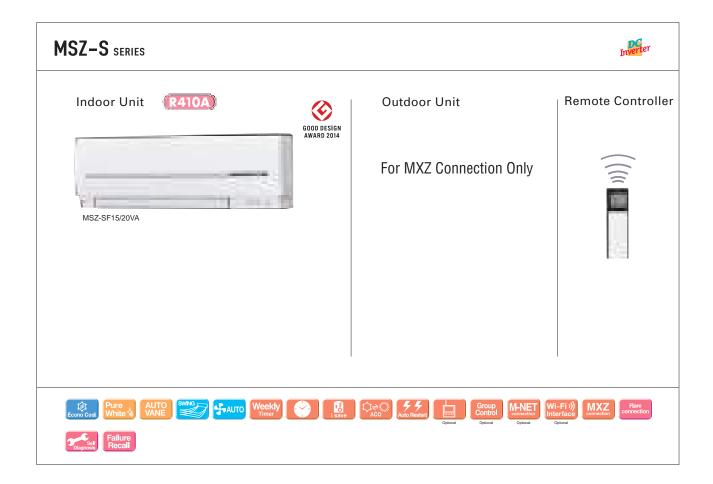


MUZ-SF25/35/42VE

MUZ-SF25/35/42VEH

MUZ-SF50VEH

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Туре		•				Inverter H	leat Pump				
Indoor Ur	nit			MSZ-SF15VA	MSZ-SF20VA	MSZ-SF25VE3	MSZ-SF25VE3	MSZ-SF35VE3	MSZ-SF35VE3		
Outdoor	Unit			for MXZ c	onnection	MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH		
Refrigera	nt					R41	0A <sup>(*1)</sup>				
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++		
	O an a a itu	Rated	kW	-	-	2.5	2.5	3.5	3.5		
	Capacity	Min-Max	kW	-	-	0.9-3.4	0.9-3.4	1.1-3.8	1.1-3.8		
	Total Input	Rated	kW	-	-	0.600	0.600	1.080	1.080		
	Design load		kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)		
		at reference design temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)		
	Declared Capacity	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	capacity	kW	-	-	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)		
(Average	Annual electricity consumption (*2)		kWh/a	-	-	764	790	923	948		
Season)(*5)	SCOP (*4)			-	-	4.4	4.3	4.4	4.3		
	Energy efficiency class			-	-	A+	A+	A+	A+		
	O	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 Current(Max)		A	0.17	0.19	0.2	0.2	0.3	0.3		
	Dimensions	H*W*D	mm	250-760-168	250-760-168	299-798-195	299-798-195	299-798-195	299-798-195		
	Weight		kg	7.7	7.7	10	10	10	10		
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		
onne	Mid-Hi-SHi <sup>(*3)</sup> (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 <sup>(*6)</sup> - 24 - 30 - 36 - 42	19(**) - 24 - 30 - 36 - 42	19 <sup>(*6)</sup> - 24 - 30 - 36 - 42	19(**) - 24 - 30 - 36 - 42		
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 <sup>(*6)</sup> - 24 - 34 - 39 - 45	19 <sup>(*6)</sup> - 24 - 34 - 39 - 45	19 <sup>(*6)</sup> - 24 - 34 - 40 - 46	19(*6) - 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		
Outdoor	All Volume	Heating	m³/min	-	-	30.7	30.7	35.9	35.9		
Unit	Sound Level (SPL)	Cooling	dB(A)	-	-	47	47	49	49		
•	Sound Level (SFL)	Heating	dB(A)	-	-	48	48	50	50		
	Sound Level (PWL)	Cooling	dB(A)	-	-	58	58	62	62		
			A	-	-	8.2	8.2	8.2	8.2		
	Breaker Size		A	-	-	10	10	10	10		
Ext.	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52		
Ext. Piping	Max.Length	Out-In	m	-	-	20	20	20	20		
	Max.Height	Out-In	m	-	-	12	12	12	12		
	ed Operating	Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46		
Range (C	outdoor)	Heating	°C	-	-	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24		

MSZ-S series MSZ-G series	Inverter	DC Fan Motor	SEER SCOP A++ A+
Indoor Unit (R410A)	Outdoor Unit	R410A)	Remote Controller
MSZ-SF25/35/42/50VE3	MUZ-SF25/35/42		
	TO Weekly Timer	i save	Restart Low Temp Cooling Optional
Group Contraction Optional Contraction Optional Con	re I		

Туре						Inverter H	leat Pump		
Indoor Ur	nit			MSZ-SF42VE3	MSZ-SF42VE3	MSZ-SF50VE3	MSZ-SF50VE3	MSZ-GF60VE2	MSZ-GF71VE2
Outdoor	Unit			MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH	MUZ-GF60VE	MUZ-GF71VE
Refrigera	nt					R41	0A <sup>(*1)</sup>		
Power	Source					Outdoor P	ower 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 (*4)			7.5	7.5	7.2	7.2	6.8	6.8
Cooling		Energy efficiency class	5	A++	A++	A++	A++	A++	A++
	Capacity	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 Capacity	at bivalent temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)
	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	Annual electricity consumption (*2) kWh/a		1215	1242	1351	1380	1489	2204
Season)(*5)	SCOP (*4)			4.4	4.3	4.4	4.3	4.3	4.2
		Energy efficiency class		A+	A+	A+	A+	A+	A+
	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
Jint	Mid-Hi-SHi(*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 <sup>(*6)</sup> - 31 - 34 - 38 - 42	26(***) - 31 - 34 - 38 - 42	28 <sup>(*7)</sup> - 33 - 36 - 40 - 45	28 <sup>(*7)</sup> - 33 - 36 - 40 - 45	29 - 37 -41 - 45 - 49	30 - 37 - 41 - 45 - 49
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	26 <sup>(*6)</sup> - 31 - 36 - 42 - 47	26(***) - 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
Dutdoor Jnit	Sound Level (SPL)	Cooling	dB(A)	50	50	52	52	55	55
Jint	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		A	10	10	16	16	20	20
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7	6.35/15.88	9.52/15.88
Ext. Piping	Max.Length	Out-In	m	20	20	30	30	30	30
-ipilig	Max.Height	Out-In	m	12	12	15	15	15	15
Guarante	eed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Dutdoor)	Heating	°C	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24

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MSZ-DM25/35VA

R410A

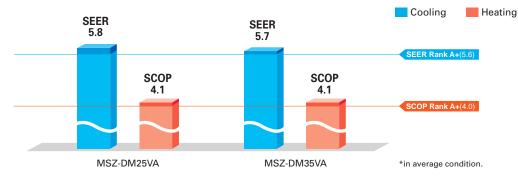


Compact, high-performance indoor and outdoor units equipped with highperformance air purifying filters contribute to greater room comfort. Wi-Fi and system controller connectivity enable enhanced expandability.

# Advanced Inverter Control – Efficient Operation All the Time 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)

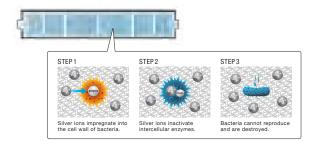
Optional interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.

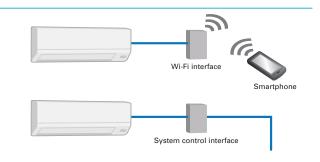
#### System Control Interface (Optional)

- •Remote on/off operation is possible by input to the connector.
- •Depending on the interface used, connecting a wired remotecontrol such as the PAR-40MAA is possible.
- •Centralised control is possible when connected to M-NET.
- \*Wi-Fi Interface and System Control Interface cannot be used simultaneously.

# Silver-ionized Air Purifier Filter

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





# **Compact Units**

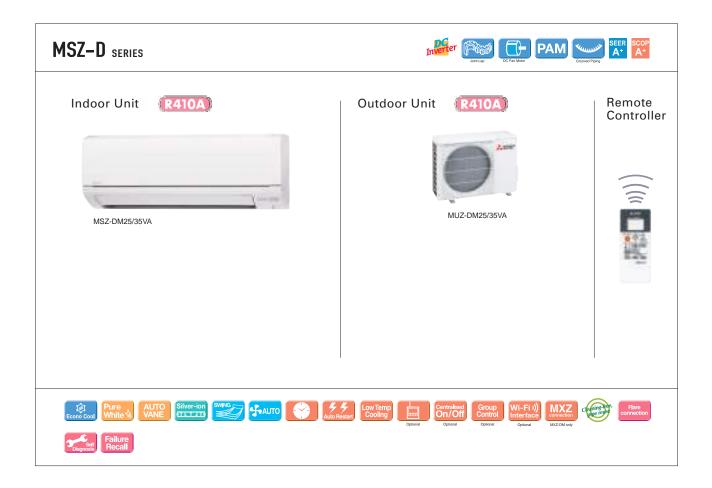
The width of both indoor and outdoor units are compact, making installation in smaller, tighter spaces possible.

Indoor Unit: MSZ-DM25VA

Outdoor Unit: MUZ-DM25/35VA







Туре				Inverter H	leat Pump				
ndoor Ur	nit			MSZ-DM25VA	MSZ-DM35VA				
Dutdoor	Unit			MUZ-DM25VA	MUZ-DM35VA				
Refrigera	nt			R41	OA <sup>(1)</sup>				
ower	Source			Indoor Power supply					
Supply	Outdoor (V / Ph	ase / Hz )		230V/Single/50Hz					
	Design load	,	kW	2.5	3.1				
	Annual electricity	consumption (*2)	kWh/a	149	190				
	SEER (*4)			5.8	5.7				
Cooling		Energy efficiency class		A+	A <sup>+</sup>				
-	a	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)				
Heating	Capacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)				
	Back up heating	capacity	kW	0.0 (-10°C)	0.0 (-10°C)				
verage	Annual electricity	consumption (*2)	kWh/a	647	809				
Season)(*5)	SCOP (*4)			4.1	4.1				
		Energy efficiency class		A+	A+				
	O	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				
peratin	g Current (Max)		A	5.8	6.5				
	Input	Rated	kW	0.020	0.024				
	Operating Current(Max)		A	0.3	0.3				
	Dimensions	H*W*D	mm	290-799-232	290-799-232				
	Weight		kg	9	9				
idoor nit	Air Volume (SLo-Lo-	Cooling	m³/min	3.8 - 5.5 - 7.3 - 9.5	3.8 - 5.7 - 7.8 - 10.9				
inc	Mid-Hi-SHi <sup>(*3)</sup> (Dry/Wet))	Heating	m³/min	3.5 - 5.5 - 7.5 - 10.0	3.5 - 5.5 - 7.5 - 10.3				
	Sound Level (SPL)	Cooling	dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 45				
	(SLo-Lo-Mid-Hi-SHi(*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				
utdoor nit	Sound Level (SPL)	Cooling	dB(A)	50	51				
inc	Sound Level (SPL)	Heating	dB(A)	50	51				
	Sound Level (PWL)	Cooling	dB(A)	63	64				
	Operating Curre	Operating Current (Max)		5.5	6.2				
	Breaker Size		A	10	10				
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52				
ixt. Piping	Max.Length	Out-In	m	20	20				
iping	Max.Height	Out-In	m	12	12				
Juarante	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46				
	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 CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or GMP equal to 1975. This means that if 1 kg of this aroftessional. The GWP of R410A 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) SHE: Super High
(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(5) Please see page 51-52 for heating (warmer season) specifications.



#### Stylish Design with Flat Panel Front

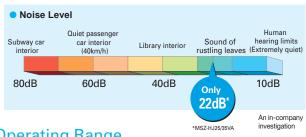


Mitsubishi Electric's cutting-edge inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises an Energy Rank "A" rating for 25/35 classes and "A\*" for 50/60/71 classes.

#### Silent Operation

Long Piping Length

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.



# **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**

Max piping height difference

Max piping length

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

Compared to previous models, the piping length is significantly

MSZ-HJ25/35/50

20m

12m

increased, further enhancing the ease and flexibility of installation.

MSZ-HJ60/71

30m

15m

Indoor Unit: MSZ-HJ25/35/50VA





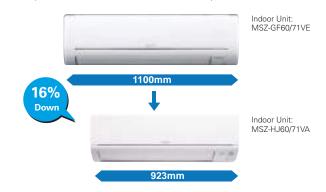
Outdoor Unit: MUZ-HJ25/35VA

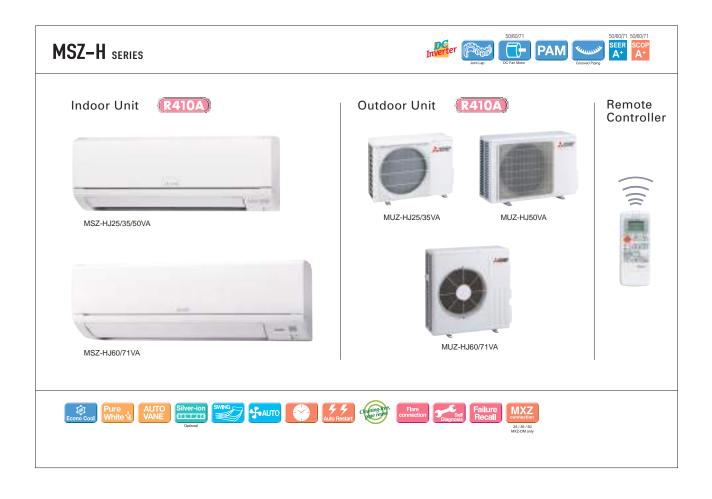
MSZ-HC

10m

5m

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





Туре					Inverter Heat Pump						
Indoor Ur	nit			MSZ-HJ25VA	MSZ-HJ35VA	MSZ-HJ50VA	MSZ-HJ60VA	MSZ-HJ71VA			
Outdoor I	Unit			MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA	MUZ-HJ60VA	MUZ-HJ71VA			
Refrigera	nt					R410A <sup>(*1)</sup>					
Power	Source					Indoor Power supply					
Supply	upply Outdoor (V / Phase / Hz )			230V/Single/50Hz							
	Design load		kW	2.5	3.1	5.0	6.1	7.1			
Ì	Annual electricity	consumption (*2)	kWh/a	171	212	292	354	441			
	SEER (*4)			5.1	5.1	6.0	6.0	5.6			
ooling		Energy efficiency class		A	A	A+	A+	A+			
	O	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	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)			
	Declared	at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)			
	Capacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)			
eating	Back up heating		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)			
verage	Annual electricity		kWh/a	698	885	1267	1544	1854			
eason)(*5)	SCOP (*4)			3.8	3.8	4.2	4.1	4.0			
		Energy efficiency class		A	A	A+	A+	A+			
		Rated	kw l	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			
noratin	g Current (Max)	i ialeu	A	5.8	6.5	9.8	12.5	12.5			
peraun	Input	Rated	kW	0.020	0.024	0.037	0.055	0.055			
	Operating Current(Max)		A	0.3	0.3	0.4	0.5	0.5			
	Dimensions	H*W*D	mm	290-799-232	290-799-232	290-799-232	305-923-250	305-923-250			
	Weight	11 W D	kg	9	9	9	13	13			
ndoor	Air Volume (SLo-Lo-	Cooling	m <sup>3</sup> /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			
nit	Mid-Hi-SHi <sup>(*3)</sup> (Dry/Wet))	Heating	m <sup>3</sup> /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	9.3 - 12.2 - 15.0 - 19.9 9.4 - 12.5 - 16.0 - 19.9	10.3 - 12.7 - 16.4 - 19.9			
		Cooling	dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 45	28 - 36 - 40 - 45	31 - 38 - 44 - 50	33 - 38 - 44 - 50			
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 43	27 - 34 - 41 - 47	31 - 38 - 44 - 30	33 - 38 - 44 - 50			
	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	пии	kg	24	25	36	55	55			
	weight	Cooling	m <sup>3</sup> /min	31.5	31.5	36.3	47.9	49.3			
	Air Volume	Heating	m <sup>3</sup> /min	31.5	31.5	34.8	47.9	49.5			
utdoor		Cooling	dB(A)	50	50	50	55	55			
nit	Sound Level (SPL)	Heating	dB(A)	50	50	51	55	55			
	Council Louis (DMIL)		dB(A)	63	64	64	65				
	. ,	Sound Level (PWL) Cooling		5.5	6.2	9.4	12.0	66			
	Operating Curre	ent (wax)	A			***		12.0			
	Breaker Size		A	10	10	12	16	16			
xt.	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/12.7	6.35/15.88	9.52/15.88			
ping	Max.Length	Out-In	m	20	20	20	30	30			
	Max.Height	Out-In	m	12	12	12	15	15			
	ed Operating	Cooling	°C	+15 ~ +46	+15 ~ +46	+15 ~ +46	+15 ~ +46	+15 ~ +46			
Range (C	ulador)	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 CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or QAB in the IPCO 4th Assessment Report.
(2) Energy consumption based on standard test sets. Acutal energy consumption will depend on how the appliance is used and where it is located.
(3) SHE: Super High
(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(5) Please see page 51-52 for heating (warmer season) specifications.

# MFZ SERIES

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

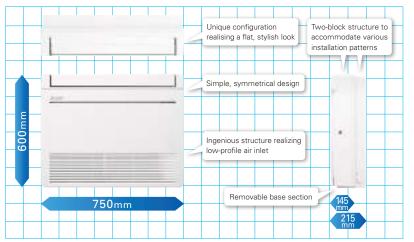
GOOD DESIGN AWARD 2014

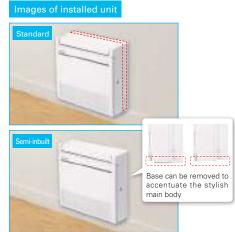
MFZ-KT25/35/50/60VG



# Simple, Flat Design

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





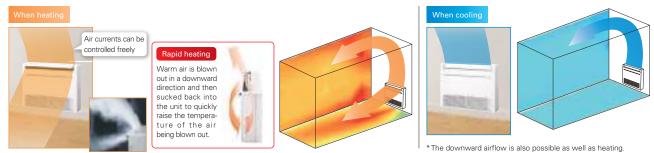
#### **New Line-up**

New models have been introduced to expand the line-up. The diverse selection enables the best solution for both customers and locations.

Capacity	2.5kW	3.5kW	5.0kW	6.0kW					
MFZ-KJ	$\checkmark$	$\checkmark$	$\checkmark$						
	•								
MFZ-KT	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$					

# **Multi-flow Vane**

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

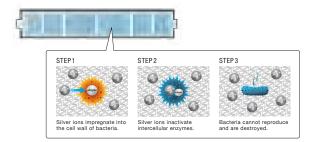


#### Weekly Timer (Introduced in response to market demand)

Temperature settings and On/Off control can be managed over a period of one week using the Weekly Timer. Up to eight setting patterns per calendar day are possible.

# Silver-ionized Air Purifier Filter

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



# **Quiet Operation**

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





MFZ-KT series		Inverter Do For March
Indoor Unit 💷	Outdoor Unit 🛛 💷	Remote Controller
GOOD DESI AWARD 20	SUZ-M25/35VA SUZ-M2	
MFZ-KT25/35/50/60VG		Enclosed in *optional MFZ-KT
	SUZ-M60VA	*optional
Econo Cool Pure VANE Silver-ion Air Puritying SWNG	Keekly Reekly isave	Auto Restart Low Temp Cooling Group Control Optional Optional Optional Optional
Wi-Fi /) Interface Optical		

Туре					In <u>verter I</u>	leat Pump			
Indoor Un	nit			MFZ-KT25VG	MFZ-KT35VG	MFZ-KT50VG	MFZ-KT60VG		
Outdoor l	Unit			SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA		
Refrigerar	nt			R32 <sup>(*1)</sup>	R32 <sup>(*1)</sup>	R32 <sup>(*1)</sup>	R32 <sup>(*1)</sup>		
Power	Source			Outdoor power supply					
Supply	Outdoor(V/Phase/Hz)				230 / Sir	ngle / 50			
	Design load		kW	2.5	3.5	5.0	6.1		
	Annual electricity consum	ption ( <sup>12)</sup>	kWh/a	134	185	257	343		
	SEER (*4), (*5)			6.5	6.6	6.8	6.2		
Cooling		Energy efficiency class		A++	A++	A++	A++		
	Capacity	Rated	kW	2.5	3.5	5.0	6.1		
		Min-Max	kW	1.6 - 3.2	0.9 - 3.9	1.2 - 5.6	1.7 - 6.3		
	Total Input	Rated	kW	0.62	1.06	1.55	1.84		
	Design load		kW	2.2	2.6	4.3	4.6		
	Declared Capacity	at reference design temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.5 (-10°C)	4.1 (-10°C)		
		at bivalent temperature	kW	2.0 (-7°C)	2.3 (-7°C)	3.9 (-7°C)	4.1 (-7°C)		
		at operation limit temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.5 (-10°C)	4.1 (-10°C)		
Heating	Back up heating capacity		kW	0.2	0.3	0.8	0.5		
Average	Annual electricity consum	ption <sup>(*2)</sup>	kWh/a	732	825	1423	1568		
Season)	SCOP (*4), (*5)			4.2	4.4	4.2	4.1		
		Energy efficiency class		A <sup>+</sup>	A+	A <sup>+</sup>	A <sup>+</sup>		
	Capacity	Rated	kW	3.4	4.3	6.0	7.0		
		Min-Max	kW	1.3 - 4.2	1.1 - 5.0	1.5 - 7.2	1.6 - 8.0		
	Total Input	Rated	kW	0.91	1.26	1.86	2.18		
Operatin	g Current (Max)		A	7.0	8.7	14.0	15.4		
	Input	Rated	kW	0.020 / 0.024	0.020 / 0.024	0.037 / 0.052	0.063 / 0.059		
	Operating Current(Max)		A	0.20	0.20	0.45	0.55		
	Dimensions	H*W*D	mm	600-750-215	600-750-215	600-750-215	600-750-215		
Indoor	Weight		kg	14.5	14.5	14.5	15.0		
Unit	Air Volume	Cooling	m3/min	3.9 - 4.8 - 6.5 - 7.8 - 8.9	3.9 - 4.8 - 6.5 - 7.8 - 8.9	5.6 - 6.7 - 8.6 - 10.4 - 12.3	5.6 - 8.0 - 9.6 - 12.3 - 15.0		
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	m3/min	3.5 - 4.0 - 5.6 - 7.3 - 9.7	3.5 - 4.0 - 5.6 - 7.3 - 9.7	6.0 - 7.7 - 9.4 - 11.6 - 14.0	6.0 - 7.7 - 9.7 - 12.5 - 14.6		
	Sound Level (SPL)	Cooling	dB(A)	19 - 24 - 31 - 37 - 41	19 - 24 - 31 - 37 - 41	28 - 32 - 37 - 42 - 48	28 - 36 - 40 - 46 - 53		
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	19 - 23 - 30 - 37 - 44	19 - 23 - 30 - 37 - 44	29 - 35 - 40 - 44 - 49	29 - 35 - 41 - 47 - 51		
	Sound Level (PWL)	Cooling	dB(A)	54	54	60	65		
	Dimensions	H*W*D	mm	550-800-285	550-800-285	714-800-285	880-840-300		
	Weight	1	kg	30	35	41	54		
	Air Volume	Cooling	m3/min	36.3	34.3	45.8	50.1		
Outdoor		Heating	m3/min	34.6	32.7	43.7	50.1		
Unit	Sound Level (SPL)	Cooling	dB(A)	45	48	48	49		
		Heating	dB(A)	46	48	49	51		
	Sound Level (PWL)	Cooling	dB(A)	59	59	64	65		
	Operating Current(Max)		A	7	9	14	15		
	Breaker Size		A	10	10	16	16		
Ext.	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88		
Piping	Max.Length	Out-In	m	20	20	30	30		
	Max.Height	Out-In	m	12	12	30	30		
	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46		
[Outdoor]		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24		

ID action
 ID action





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

# 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.



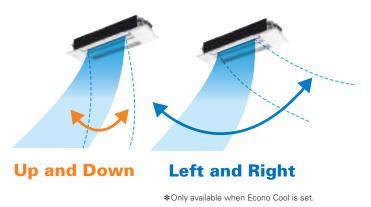
# Set Airflow According to Ceiling Height

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

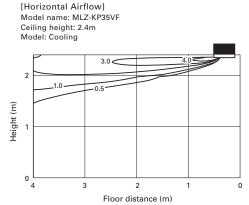
#### Auto Vane Control

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.



#### **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.



#### Built-in Weekly Timer Function

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

#### Example Operation Pattern (Winter/Heating mode)

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
6:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
			Automatically change	es to high-power opera	tion at wake-up time		
8:00							
10:00							
(2:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
		Automatic	ally turned off during v	vork hours		Midday is warmer, so the temperature	
14:00							
16:00							
(8:00	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C
20:00			ns on, synchronized wi			Automatically raises ten	
25:00		,				Inatch time when outsic	
(during sleeping hours)	ON 18°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	

Pattern Settings: Input up to four settings for each day

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

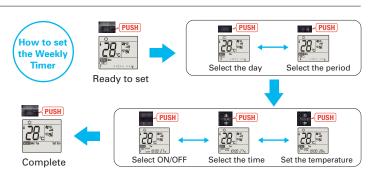
#### Easy set-up using dedicated buttons



Settings

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





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

# Easy Installation

# Industry leading Slim Body

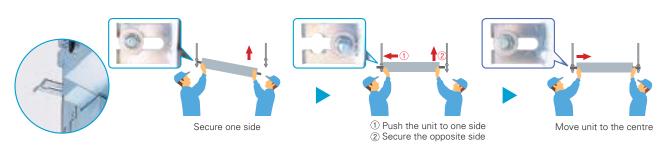
Inovative size which enables to fold the refrigerant piping above the unit.



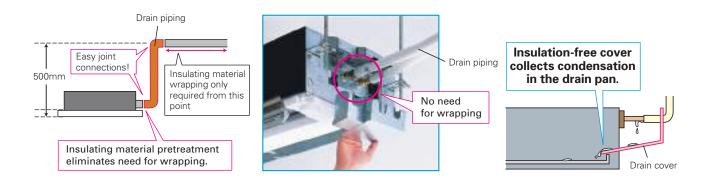
Dimension: 185(H)×1102(W)×360(D)mm

# Temporary hanging hook

Work efficiency has improved during installation.

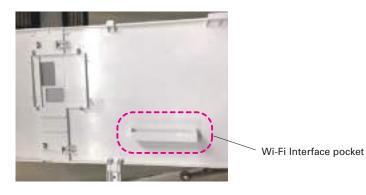


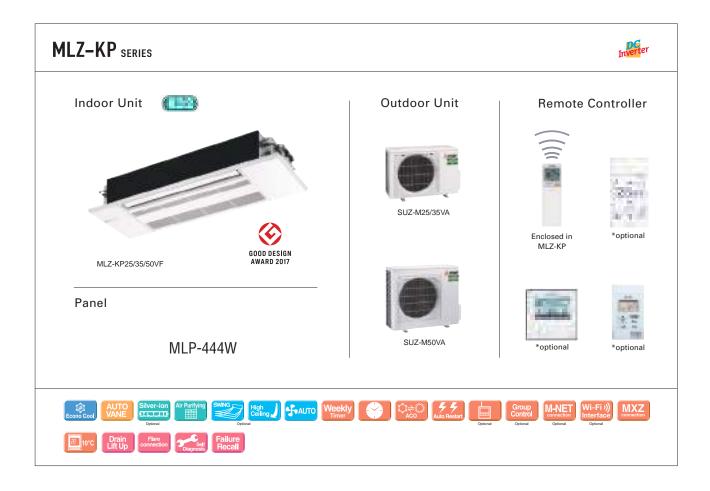
# Drain Piping Supporters + Drain Cover



# 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.





уре					Inverter Heat Pump	
door Unit	t			MLZ-KP25VF	MLZ-KP35VF	MLZ-KP50VF
utdoor U	nit			SUZ-M25VA	SUZ-M35VA	SUZ-M50VA
frigerant					R32 <sup>(*1)</sup>	
wer	Source				Outdoor Power supply	
pply (	Outdoor (V / Ph	ase / Hz )			230V / Single / 50Hz	
1	Design load		kW	2.5	3.5	5.0
7	Annual electricity	consumption (*2)	kWh/a	141	175	260
5	SEER (*4), (*5)		6.2		7.0	6.7
ooling		Energy efficiency class		A++	A++	A++
		Rated	kW	2.5	3.5	5.0
	Capacity	Min-Max	kW	1.4 - 3.2	0.8 - 3.9	1.7 - 5.6
1	Total Input	Rated	kW	0.59	0.94	1.38
1	Design load		kW	2.2	2.6	4.3
		at reference design temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.8 (-10°C)
	Declared	at bivalent temperature	kW	2.0 (-7°C)	2.3 (-7°C)	3.8 (-7°C)
	Capacity	at operation limit temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.8 (-10°C)
ating	Back up heating	capacity	kW	0.2	0.3	0.5
erage /	Annual electricity	consumption (*2)	kWh/a	697	791	1397
ason)	SCOP (*4), (*5)			4.4	4.6	4.3
		Energy efficiency class		A+	A++	A+
Ī.	Conceity	Rated	kW	3.2	4.1	6.0
	Capacity	Min-Max	kW	1.4 - 4.2	1.1 - 4.9	1.7 - 7.2
1	Total Input	Rated	kW	0.80	1.10	1.86
erating	Current (Max)		A	7.2	8.9	13.9
1	nput	Rated	kW	0.04	0.04	0.04
•	Operating Curre	ent(Max)	A	0.40	0.40	0.40
1	Dimensions	H*W*D	mm	185-1102-360	185-1102-360	185-1102-360
. 1	Weight		kg	15.5	15.5	15.5
	Air Volume (SLo-Lo- Cooling		m³/min	6.0-7.2-8.0-8.8	6.0-7.3-8.4-9.4	6.0-8.3-9.8-11.4
	/lid-Hi <sup>(*3)</sup> (Dry/Wet))	Heating	m³/min	6.0-7.0-8.2-9.2	6.0-7.7-8.8-9.9	6.0-8.8-10.3-11.8
	Sound Level (SPL)	Cooling	dB(A)	27-31-34-38	27-32-36-40	29-36-41-47
(	SLo-Lo-Mid-Hi <sup>(*3)</sup> )	Heating	dB(A)	26-27-34-37	29-32-36-40	26-37-42-48
5	Sound Level (PWL)	Cooling	dB(A)	52	53	59
nel I	Dimensions	H*W*D	mm	24-1200-424	24-1200-424	24-1200-424
	Neight		kg	3.5	3.5	3.5
I	Dimensions	H*W*D	mm	550-800-285	550-800-285	550-800-285
١	Neight		kg	30	35	41
	Air Volume	Cooling	m³/min	36.3	34.3	45.8
utdoor		Heating	m³/min	34.6	32.7	43.7
	Sound Level (SPL)	Cooling	dB(A)	45	48	48
	Sound Level (SPL)	Heating	dB(A)	46	48	49
\$	Sound Level (PWL)	Cooling	dB(A)	59	59	64
	Operating Current (Max)		A	6.8	8.5	13.5
1	Breaker Size		A	10	10	20
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/12.7
d.	Max.Length	Out-In	m	20	20	30
iping	Max.Height	Out-In	m	12	12	30
uarantee	d Operating	Cooling	°C	-10~+46	-10~+46	-15~+46
	utdoor) Heating		°C	-10~+24	-10~+24	-10~+24

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant thid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or QP H10A is 2088 in the IPCC 4th Assessment Report.
(2) Energy consumption based on standard test results. Actual energy consumption wild depend on how the appliance is used and where it is located.
(3) SHE: Super High
(4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(5) SEER and SCOP are based on 2009/125/EC.Energy-related Products Directive and Regulation(EU) No.026/2012.

# Specification on Warmer/Colder Condition

Туре							Inverter Heat Pump			
Indoor Ur	-i+			MSZ-LI	1251/02		N35VG2		N50VG2	MSZ-LN60VG2
								-		
Outdoor I				MUZ-LN25VG2	MUZ-LN25VGHZ2	MUZ-LN35VG2	MUZ-LN35VGHZ2	MUZ-LN50VG2	MUZ-LN50VGHZ	MUZ-LN60VG
Refrigera							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	129	130	205	230	285
	SEER			10.5	10.5	9.5	9.4	8.5	7.6	7.5
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A++	A++
	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)
		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	Capacity	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	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)
,	Annual electricity	consumption (*2)	kWh/a	369	382	431	467	602	779	779
	SCOP			6.4	6.6	6.5	6.5	5.8	5.9	5.9
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++	A+++
	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	Capacity	at operation limit temperature	kW	-	2.3 (-25°C)	-	3.1 (-25°C)	-	4.7 (-25°C)	-
(Colder Season)	Back up heating	capacity	kW	-	2.1 (-22°C)	-	2.5 (-22°C)	-	3.7 (-22°C)	-
Coasony	Annual electricity	consumption (*2)	kWh/a	-	2425	-	3075	-	5340	_
	SCOP			-	4.0	-	4.0	-	3.4	-
		Energy efficiency class		-	A+	-	A <sup>+</sup>	-	A	-

Туре					Inverter Heat Pump	
Indoor Ur	Jnit The second			MSZ-FT25VG	MSZ-FT35VG	MSZ-FT50VG
Outdoor I	Unit			MUZ-FT25VGHZ	MUZ-FT35VGHZ	MUZ-FT50VGHZ
Refrigera	nt				R32 (*3)	
	Design load		kW	2.5	3.5	5.0
Cooling	Annual electricity	consumption <sup>(*2)</sup>	kWh/a	101	142	243
coomig	SEER			8.6	8.6	7.2
		Energy efficiency class		A+++	A+++	A++
	Design load		kW	1.8 (2°C)	2.2 (2°C)	2.7 (2°C)
		at reference design temperature	kW	1.8 (2°C)	2.2 (2°C)	2.7 (2°C)
		at bivalent temperature	kW	1.8 (2°C)	2.2 (2°C)	2.7 (2°C)
Heating (Warmer	Capacity	at operation limit temperature	kW	3.0 (-25°C)	3.4 (-25°C)	3.6 (-25°C)
Season)	Back up heating	g capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
,	Annual electricity	consumption (*2)	kWh/a	432	527	684
	SCOP			5.8	5.8	5.5
		Energy efficiency class		A+++	A+++	A+++
	Design load		kW	4.7 (-22°C)	5.9 (-22°C)	7.4 (-22°C)
		at reference design temperature	kW	3.1 (-22°C)	3.7 (-22°C)	4.0 (-22°C)
		at bivalent temperature	kW	3.2 (-10°C)	4.0 (-10°C)	5.0 (-10°C)
Heating	Capacity	at operation limit temperature	kW	3.0 (-25°C)	3.4 (-25°C)	3.6 (-25°C)
(Colder Season)	Back up heating	g capacity	kW	1.6 (-22°C)	2.2 (-22°C)	3.4 (-22°C)
cousony	Annual electricity	consumption (*2)	kWh/a	2766	3453	4707
	SCOP			3.5	3.5	3.3
		Energy efficiency class		A	A	В

Туре									Inverter H	leat Pump				
Indoor Ur	nit			MSZ-AP20VG	MSZ-A	P25VG	MSZ-A	P35VG	MSZ-A	P42VG	MSZ-A	P50VG	MSZ-AP60VG(K)	MSZ-AP71VG(K)
Outdoor I	Unit			MUZ-AP20VG	MUZ-AP25VG	MUZ-AP25VGH	MUZ-AP35VG	MUZ-AP35VGH	MUZ-AP42VG	MUZ-AP42VGH	MUZ-AP50VG	MUZ-AP50VGH	MUZ-AP60VG	MUZ-AP71VG
Refrigera	nt							R3	2(*3)					
	Design load		kW	2.0	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0	6.1	7.1
Cooling	Annual electricity	consumption (*2)	kWh/a	81	116	116	171	171	196	196	246	246	288	345
	SEER			8.6	7.6	7.6	7.2	7.2	7.5	7.5	7.2	7.2	7.4	7.2
		Energy efficiency class		A+++	A++	A++								
	Design load		kW	1.3 (2°C)	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)	2.5 (2°C)	3.7 (2°C)
	Declared	at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)	2.5 (2°C)	3.7 (2°C)
	Declared Capacity	at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)	2.5 (2°C)	3.7 (2°C)
Heating (Warmer	oupdoily	at operation limit temperature	kW	2.2 (-15°C)	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)	3.7 (-15°C)	5.4 (-15°C)
Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)									
	Annual electricity	consumption (*2)	kWh/a	350	337	337	923 / 418	417	507	507	563	563	627	891
	SCOP			5.2	5.4	5.4	5.4	5.4	5.8	5.8	5.7	5.7	5.5	5.8
		Energy efficiency class		A+++	A+++									

Туре						Inverter H	leat Pump		
Indoor Ur	nit			MSZ-E	F25VG	MSZ-E	F35VG	MSZ-EF42VG	MSZ-EF50VG
Outdoor I	Jnit			MUZ-EF25VG	MUZ-EF25VGH	MUZ-EF35VG	MUZ-EF35VGH	MUZ-EF42VG	MUZ-EF50VG
Refrigera	nt					Ra	32(*3)		
	Design load		kW	2.5	2.5	3.5	3.5	4.2	5.0
Cooling	Annual electricity	consumption ("2)	kWh/a	96	96	139	139	186	233
ocomig	SEER			9.1	9.1	8.8	8.8	7.9	7.5
		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)	2.0 (-15°C)	2.4 (-15°C)	2.4 (-15°C)	3.4 (-15°C)	3.5 (-15°C)
(warmer Season)	Back up heating	g capacity	kW	0.0 (2°C)					
ocasony	Annual electricity	consumption (*2)	kWh/a	311	311	398	398	489	595
	SCOP			5.9	5.9	5.6	5.6	6.0	5.4
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++

Туре					Inverter H	eat Pump			
Indoor Ur	nit			MSZ-BT20VG	MSZ-BT25VG	MSZ-BT35VG	MSZ-BT50VG		
Outdoor I	Unit			MUZ-BT20VG	MUZ-BT25VG	MUZ-BT35VG	MUZ-BT50VG		
Refrigera	nt			R32 <sup>(*3)</sup>					
	Design load		kW	2.0	2.5	3.5	5.0		
Cooling	Annual electricity	consumption (*2)	kWh/a	86	108	180	265		
cooling	SEER			8.1	8.1	6.8	6.6		
		Energy efficiency class		A++	A++	A++	A++		
	Design load		kW	0.9 (2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)		
		At reference design temperature	kW	0.9 (2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)		
	Declared Capacity	at bivalent temperature	kW	0.9(2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)		
Heating	Capacity	at operation limit temperature	kW	1.3 (-15°C)	1.7 (-15°C)	2.1 (-15°C)	3.4 (-15°C)		
(Warmer Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)		
coasony	Annual electricity	consumption (*2)	kWh/a	234	268	304	543		
	SCOP (*4)			5.3	5.7	5.9	5.4		
		Energy efficiency class		A+++	A+++	A+++	A+++		

Туре						Inverter F	leat Pump		
Indoor Ur	nit			MSZ-HR25VF	MSZ-HR35VF	MSZ-HR42VF	MSZ-HR50VF	MSZ-HR60VF	MSZ-HR71VF
Outdoor I	Jnit			MUZ-HR25VF	MUZ-HR35VF	MUZ-HR42VF	MUZ-HR50VF	MUZ-HR60VF	MUZ-HR71VF
Refrigera	nt					R32	(*3)		
	Design load		kW	2.5	3.4	4.2	5.0	6.1	7.1
Coolina	Annual electricity	consumption (*2)	kWh/a	141	191	226	269	296	355
ocomig	SEER	-			6.2	6.5	6.5	7.2	7.0
		Energy efficiency class		A++	A++	A++	A++	A++	A++
	Design load		kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)	2.5 (2°C)	3.0 (2°C)
		at reference design temperature	kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)	2.5 (2°C)	3.0 (2°C)
	Declared Capacity	at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)	2.5 (2°C)	3.0 (2°C)
Heating Warmer	Capacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
Season)	Back up heating	g capacity	kW	0.0 (2°C)					
0000011	Annual electricity	consumption (*2)	kWh/a	289	344	427	558	640	802
	SCOP			5.3	5.2	5.2	5.2	5.4	5.2
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++

Туре							Inverter H	eat Pump				
Indoor Ur	nit			MSZ-S	F25VE3	MSZ-S	F35VE3	MSZ-S	F42VE3	MSZ-SF50VE3		
Outdoor	Unit			MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH	MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH	
Refrigera	nt						R410	IA (*1)				
	Design load		kW	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0	
Cooling	Annual electricity	consumption ("2)	kWh/a	116	116	171	171	196	196	246	246	
ocomig	SEER			7.6	7.6	7.2	7.2	7.5	7.5	7.2	7.2	
		Energy efficiency class		A++								
	Design load		kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)	
		at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)	
	Declared Capacity	at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)	
Heating (Warmer	Capacity	at operation limit temperature	kW	2.0 (-15°C)	1.6 (-20°C)	2.2 (-15°C)	1.6 (-20°C)	3.4 (-15°C)	2.2 (-20°C)	3.4 (-15°C)	2.3 (-20°C)	
Season)	Back up heating	g capacity	kW	0.0 (2°C)								
	Annual electricity	consumption (*2)	kWh/a	337	337	923 / 418	417	507	507	563	563	
	SCOP			5.4	5.4	5.4	5.4	5.8	5.8	5.7	5.7	
		Energy efficiency class		A+++								

Туре				Inverter H	eat Pump
Indoor Ur	nit			MSZ-GF60VE2	MSZ-GF71VE2
Outdoor I	Jnit			MUZ-GF60VE	MUZ-GF71VE
Refrigera	nt			R41	DA <sup>(*1)</sup>
	Design load		kW	6.1	7.1
Cooling	Annual electricity	consumption ("2)	kWh/a	311	364
ocomig	SEER			6.8	6.8
		Energy efficiency class		A++	A++
	Design load		kW	2.5 (2°C)	3.7 (2°C)
		At reference design temperature	kW	2.5 (2°C)	3.7 (2°C)
	Declared Capacity	at bivalent temperature	kW	2.5 (2°C)	3.7 (2°C)
Heating (Warmer	Capacity	at operation limit temperature	kW	3.7 (-15°C)	5.4 (-15°C)
Season)	Back up heatin	g capacity	kW	0.0 (2°C)	0.0 (2°C)
2220011		consumption (*2)	kWh/a	664	963
	SCOP (*4)			5.3	5.4
		Energy efficiency class		A+++	A+++

Туре							nverter Heat Pump	)		
Indoor Ur	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				MSZ-DM35VA					
Outdoor I	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
ocomig	SEER			5.1	5.1	6.0	6.0	5.6	5.8	5.7
		Energy efficiency class		A	A	A+	A+	A+	A+	A+
	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)
		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)
	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)
	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)
2220011	Annual electricity	consumption (*2)	kWh/a	356	426	539	674	813	325	386
	SCOP			4.3	4.3	5.5	5.1	4.9	4.7	4.7
		Energy efficiency class		A+	A+	A+++	A+++	A++	A++	A++

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower globai warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant fluid with the refrigerant fluid with a GP float warming that a refrigerant leakage contributes to climate change. Refrigerant with over global warming benefit on how the appliance is used and where it is located.
(3) Refrigerant leakage contributes to climate change. Refrigerant with over 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 500. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 500 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant fluid with a GWP equal to 500. This means that if 1 kg of this refrigerant fluid with a leaked to the atmosphere, the impact on global warming would be 500 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant fluid would be asked to the atmosphere, the impact on global warming would be 500 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant fluid would be set on global warming would be 500 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant fluid with a GWP equal to 500. This means that if 1 kg of this refrigerant fluid with a set of set of the set of the set of the atmosphere.



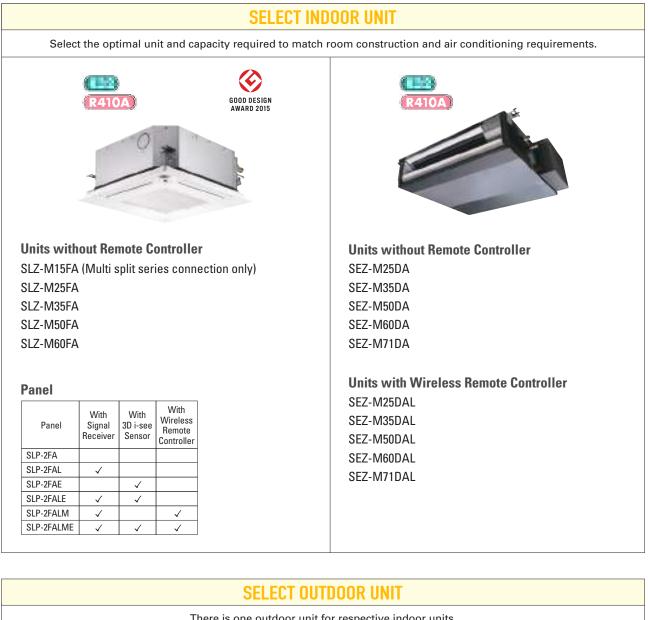






# SELECTION

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





 $\boldsymbol{\ast}$  To confirm compatibility with the MXZ Series multi-type system, refer to the MXZ Series page.



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		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
SLZ-M	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$

#### **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.

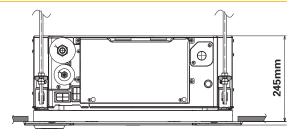
Of course, design matched  $2\times 2$  (600mm\*600mm) ceiling construction specifications.



# The height above ceiling of 245mm

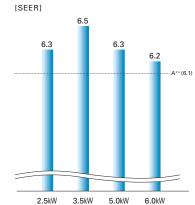
The height above ceiling of 245mm enables fitting into narrow ceiling space. Installation is simple, even when the ceiling spaces are narrow to make the ceilings higher.

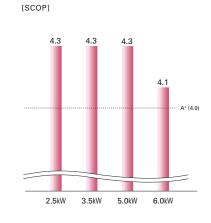
Of course, in addition to our products, replacing competitors' product is simplified too.



# **Energy-saving Performance\***

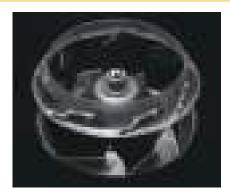
The energy-saving performance achieved A<sup>++</sup> in SEER and A<sup>+</sup> in SCOP. \*In case of connecting with SUZ-KA-VA6





#### Quietness

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

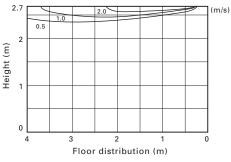


# **Horizontal Airflow**

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.



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





Corner panel

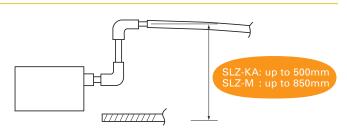


Control box cover



#### **Drain lift**

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



# 3D -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\*

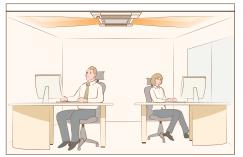
When the room remains unoccupied for a pre-set period of time, the air conditioner turns off automatically, thereby providing even greater power savings. The time until operation is stopped can be set in intervals of 10min, ranging from 60 to 180 min.

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

#### 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-40MAA 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.

Room occupancy energy save mode

#### No occupancy energy save mode No occupancy energy save mode No occupancy Auto-Off mode

 $\cap$ 

\*PAR-40MAA is required for each setting

1C° power

2C°

power savings

Auto-Off

savings

#### <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.



#### Simultaneous Multi-system\*

\*PAR-40MAA is required for each setting.

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		SLZ-M35FA	SLZ-M50FA	SLZ-M60FA
PUZ-ZM71VHA		Twin	_	_
PUHZ-ZRP71VHA2	Distribution pipe	MSDD-50TR2-E MSDD-50TR-E		
PUZ-ZM100V(Y)KA		Triple	Twin	_
PUHZ-ZRP100V(Y)KA3	Distribution pipe	MSDT-111R3-E MSDT-111R-E	MSDD-50TR2-E MSDD-50TR-E	
PUZ-ZM125V(Y)KA		Quadruple	Triple	Twin
PUHZ-ZRP125V(Y)KA3	Distribution pipe	MSDF-1111R2-E MSDF-1111R-E	MSDT-111R3-E MSDT-111R-E	MSDD-50TR2-E2 MSDD-50TR-E
PUZ-ZM140V(Y)KA		Quadruple	Triple	
PUHZ-ZRP140V(Y)KA3	Distribution pipe	MSDF-1111R2-E MSDF-1111R-E	MSDT-111R3-E MSDT-111R-E	_

SLZ-M SE	RIES			Inverter	Rare Earth Magnet		Heat Caulking Fixing Method
Indoor Unit R410A	-	- AL	GOOD DESIGN AWARD 2015	Outdoor Unit	CER CONTRACTOR	SUZ-M	160VA
Panel				Remote Control	ler		
Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	(((( 📖		-	
SLP-2FA							
SLP-2FAL	~			A.14	ACCOUNT OF	1000	
SLP-2FAE		~			designed by	1.1	4.99
SLP-2FALE	1	~				10.00	-
SLP-2FALM	~		✓		*optional	*optional	*optional
SLP-2FALME	✓	1	√	Enclosed in SLP-2FALM/SLP-2FALME			

Туре			_			Inverter Heat Pump							
Indoor Un	iit			SLZ-M15FA	SLZ-M25FA	SLZ-M35FA	SLZ-M50FA	SLZ-M60FA					
Outdoor L				for Multi connection	SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA					
Refrigerar					002 1120 01	R32*1	002 1100 11 1	002 1100 111					
Power	Source			Outdoor power supply									
Supply	Outdoor (V/Phase/H	2)				230 / Single / 50							
Cooling	Capacity	Rated	kW	_	2.5	3.5	4.6	5.7					
<b>J</b>		Min - Max	kW	_	1.4 - 3.2	0.7 - 3.9	1.0 - 5.2	1.5 - 6.3					
	Total Input	Rated	kW	_	0.65	1.09	1.35	1.67					
	Design Load	Hatod	kW	_	2.5	3.5	4.6	5.7					
	Annual Electricity Co	onsumption*2	kWh/a	_	139	183	253	321					
	SEER*3			_	6.3	6.7	6.3	6.2					
		Energy Efficiency Class		_	A++	A++	A++	A++					
Heating	Capacity	Rated	kW	_	3.2	4.0	5.0	6.4					
Average		Min - Max	kW		1.3 - 4.2	1.0 - 5.0	1.3 - 5.5	1.6 - 7.3					
Season)	Total Input	Rated	kW	_	0.88	1.07	1.56	2.13					
	Design Load		kW	_	2.2	2.6	3.6	4.6					
	Declared Capacity	at reference design temperature	kW		2.2 2.0 (–10°C)	2.0 2.3 (–10°C)	3.2 (–10°C)	4.0 4.1 (–10°C)					
	Deciared Capacity	at bivalent temperature	kW	_	2.0 (-7°C)	2.3 (-7°C)	3.2 (-7°C)	4.1 (-7°C)					
		at operation limit temperature	kW		2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.1 (-10°C)					
	Back Up Heating Ca		kW		0.2	0.3	0.4	0.5					
	Annual Electricity Co		kWh/a	_	716	843	1191	1559					
	SCOP*3	bisumption	KVVN/a	_	4.3	4.3	4.2	4.1					
	SCOP	Energy Efficiency Class			4.3 A+	4.3 A+	4.2 A+	4.1 A+					
Onorotin	a Current (max)	Energy Emclency Class	A		7.0	8.7	13.7	15.1					
	Input	Rated	kW	0.02	0.02	0.02	0.03	0.04					
				0.02	0.02	0.02	0.03	0.43					
			A										
	Dimensions <panel>         H × W × D         mm           Weight <panel>         kg</panel></panel>			245-570-570 <10-625-625> 15 <3>	245-570-570 <10-625-625> 15 <3>	245-570-570 <10-625-625> 15 <3>	245-570-570 <10-625-625> 15 <3>	245-570-570 <10-625-625 15 <3>					
	Air Volume [Lo-Mid-h	10	kg 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			27 - 34 - 39	32 - 40 - 43					
	Sound Level (SPL)		dB(A)	45	48	25 - 30 - 34	27 - 34 - 39 56	60					
0	Dimensions	H × W × D	mm	40	48 550 - 800 - 285	550 - 800 - 285	714 - 800 - 285	880 - 840 - 330					
Unit	Weight		kg	_	30	35	41	54					
	Air Volume	Cooling	ку m <sup>3</sup> /min	_	36.3	35	41	54					
	All volume		m <sup>3</sup> /min	_	34.6	34.3	43.7	50.1					
	Sound Level (SPL)	Heating Cooling	dB(A)		45	48	43.7						
	Sound Level (SPL)	•	dB(A)	-	45	48	48	49					
	Sound Level (PWL)	Heating	dB(A)	-	59	59	64	65					
		Cooling		-									
	Operating Current (r	max)	A	-	6.8	8.5	13.5	14.8					
	Breaker Size A			-	10	10	20	20					
	Diameter	Liquid / Gas	mm	-	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88					
Heating C Average Season) T Season) T C Doperating Indoor I Jnit C S S Dutdoor C V Average S S S S S S S S S S S S S S S S S S S	Max. Length	Out-In	m	-	20	20	30	30					
_	Max. Height	Out-In	m	-	12	12	30	30					
	ed Operating Range	Cooling	°C	-	-10~+46	-10~+46	-15~+46	-15~+46					
[Outdoor]		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 CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.
 \*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
 \*3 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

Unit (410A) UZ-KA25/35VA6 Controller	R410A	
Controller		
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distant.	1000	10.00
	ALC: N. 10.	2.2
*ontional	*optional	*optiona
l in .	optional	optiona
F	d in *optional P-2FALME	d in P-2FALME *optional *optional *optional *optional *optional *optional

Туре			_			Inverter Heat Pump				
Indoor Un				SLZ-M15FA	SLZ-M25FA	SLZ-M35FA	SI Z MEDEA	SLZ-M60FA		
Outdoor Un							SLZ-M50FA			
				for Multi connection	SUZ-KA25VA6	SUZ-KA35VA6 R410A*1	SUZ-KA50VA6	SUZ-KA60VA6		
Refrigerar										
Power Supply	Source					Outdoor power supply				
	Outdoor (V/Phase/H					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		kW	-	2.6	3.5	4.6	5.6		
	Annual Electricity Co	onsumption*2	kWh/a	-	144	188	256	316		
	SEER*3			-	6.3	6.5	6.3	6.2		
		Energy Efficiency Class		-	A++	A++	A++	A++		
Heating	Capacity	Rated	kW	-	3.2	4.0	5.0	6.4		
(Average		Min - Max	kW	-	1.3 - 4.2	1.7 - 5.0	1.7 - 6.0	2.5 - 7.4		
Season)	Total Input	Rated	kW	-	0.886	1.108	1.558	2.278		
	Design Load			-	2.2	2.6	3.6	4.6		
	Declared Capacity	at reference design temperature	kW	-	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.0 (-10°C)		
		at bivalent temperature	kW	-	2.0 (-7°C)	2.3 (-7°C)	3.2 (-7°C)	4.0 (-7°C)		
		at operation limit temperature	kW	-	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.0 (-10°C)		
	Back Up Heating Ca	pacity	kW	_	0.2	0.3	0.4	0.4		
	Annual Electricity Co		kWh/a	-	716	845	1172	1572		
	SCOP*3			_	4.3	4.3	4.3	4.1		
		Energy Efficiency Class		_	A+	A+	A+	A+		
Operatin	g Current (max)		A	-	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)			0.17	0.20	0.24	0.32	0.43		
		Operating Current (max)         A           Dimensions <panel>         H × W × D         mm</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>		kg	245-570-570 <10-625-625> 15 <3>	15 <3>	15 <3>	15 <3>	15 <3>		
	Air Volume [Lo-Mid-H	Hil	m <sup>3</sup> /min				7.0 - 9.0 - 11.5	7.5 - 11.5 - 13.0		
	Sound Level (SPL) [L		dB(A)	24 - 26 - 28			27 - 34 - 39	32 - 40 - 43		
	Sound Level (PWL)		dB(A)	45	48	51	56	60		
Outdoor	Dimensions	H × W × D	mm	-	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330	880 - 840 - 330		
Unit	Weight	ITAWAB	kg	-	30	35	54	50		
	Air Volume	Cooling	m <sup>3</sup> /min	_	32.6	36.3	44.6	40.9		
		Heating	m <sup>3</sup> /min	_	34.7	34.8	44.6	49.2		
	Sound Level (SPL)	Cooling	dB(A)	_	47	49	52	49.2		
	Sound Level (SFL)	Heating	dB(A)	_	47	49 50	52	55		
	Sound Level (PWL)	Cooling	dB(A)		58	62	65	65		
	Operating Current (n	·	A A	-	7.0	8.2	12.0	14.0		
		nax)					12.0			
F /	Breaker Size A			-	10	10		20		
Ext. Piping	Diameter	Liquid / Gas	mm	-	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88		
ripilig	Max. Length Out-In		m	-	20	20	30	30		
		•						30		
	Max. Height	Out-In	m	-	12	12	30			
Guarantee [Outdoor]	Max. Height ed Operating Range	Out-In Cooling Heating	m ℃ ℃		12 -10 ~ +46 -10 ~ +24	12 -10 ~ +46 -10 ~ +24	30 -15 ~ +46 -10 ~ +24	30 -15 ~ +46 -10 ~ +24		

\*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.
 \*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
 \*3 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

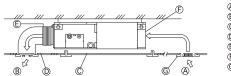
# SEZ SERIES

SEZ-M25-71DA(L) This concealed ceiling-mounted indoor unit series is compact, and fits easily into rooms with lowered ceilings. Highly reliable energy-saving performance makes it

# **Compact Ceiling-concealed Units**

a best match choice for concealed unit installations.

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



Air inlet B Air outlet
 © Access door © Ceiling surface © Canvas duct ① Air filter © Inlet 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.



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	Inverter Coulors Country Count
Indoor Unit	Outdoor Unit
RAIDA	SUZ-M25/35VA SUZ-M50VA SUZ-M60/71VA
SEZ-M25/35/50/60/71DA (Requires Wired Remote Controller) SEZ-M25/35/50/60/71DAL (Wireless Remote Controller is enclosed)	Remote Controller
Scolling Cooling Control Contr	

уре						Inverter Heat Pump								
ndoor Un	iit			SEZ-M25DA	SEZ-M35DA	SEZ-M50DA	SEZ-M60DA	SEZ-M71DA						
)utdoor l	Jnit			SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA						
efrigerar	nt					R32*1								
ower	Source			Outdoor power supply										
upply	Outdoor (V/Phase/H	lz)		230 / Single / 50										
ooling	Capacity	Rated	kW	2.5	3.5	5.0	6.1	7.1						
		Min - Max	kW	1.4 - 3.2	0.7 - 3.9	1.1 - 5.6	1.6 - 6.3	2.2 - 8.1						
	Total Input	Rated	kW	0.71	1.00	1.54	1.84	2.15						
	Design Load		kW	2.5	3.5	5.0	6.1	7.1						
	Annual Electricity Co	onsumption*2	kWh/a	165	207	290	386	452						
	SEER*3,*4			5.3	5.9	6.0	5.5	5.5						
		Energy Efficiency Class		A	A+	A+	A	A						
eating	Capacity	Rated	kW	2.9	4.2	6.0	7.4	8.0						
verage		Min - Max	kW	1.3 - 4.2	1.1 - 5.0	1.5 - 7.2	1.6 - 8.0	2.0 - 10.2						
eason)	Total Input	Rated	kW	0.80	1.07	1.61	2.04	2.28						
	Design Load		kW	2.2	2.6	4.3	4.6	5.8						
	Declared Capacity at reference design tempera		kW	2.0 (-10°C)	2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)						
		at bivalent temperature	kW	2.0 (-7°C)	2.3 (-7°C)	3.8 (-7°C)	4.1 (-7°C)	5.2 (-7°C)						
		at operation limit temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)						
	Back Up Heating Ca	pacity	kW	0.2	0.3	0.5	0.5	0.6						
	Annual Electricity Co	onsumption*2	kWh/a	807	884	1499	1525	2072						
	SCOP*3,*4			3.8	4.1	4.0	4.2	3.9						
		Energy Efficiency Class		A	A+	A+	A+	A						
perating	g Current (max)		А	7.2	9.0	14.2	15.5	15.7						
door	Input	Rated	kW	0.04	0.05	0.07	0.07	0.10						
nit	Operating Current (max)		A	0.40	0.50	0.70	0.70	0.90						
	Dimensions <panel> H × W × D</panel>		mm	200 - 790 - 700	200 - 990 - 700	200 - 990 - 700	200 - 1190 - 700	200 - 1190 - 700						
	Weight <panel></panel>		kg	18	21	23	27	27						
	Air Volume [Lo-Mid-H	Hil	m <sup>3</sup> /min	6 - 7 - 9	7 - 9 - 11	10 - 13 - 15	12 - 15 - 18	12 - 16 - 20						
	External Static Press		Pa	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50						
	Sound Level (SPL) [L	_o-Mid-Hil	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						
utdoor	Dimensions	H × W × D	mm	550 - 800 - 285	550 - 800 - 285	714 - 800 - 285	880 - 840 - 330	880 - 840 - 330						
nit	Weight		kg	30	35	41	54	55						
	Air Volume	Cooling	m <sup>3</sup> /min	36.3	34.3	45.8	50.1	50.1						
		Heating	m <sup>3</sup> /min	34.6	32.7	43.7	50.1	50.1						
	Sound Level (SPL)	Cooling	dB(A)	45	48	48	49	49						
		Heating	dB(A)	46	48	49	51	51						
	Sound Level (PWL)	Cooling	dB(A)	59	59	64	65	66						
	Operating Current (r		A	6.8	8.5	13.5	14.8	14.8						
	Breaker Size	•	A	10	10	20	20	20						
	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88						
xt.				20	20	30	30	30						
	Max. Length	IOut-In												
	Max. Length Max. Height	Out-In	m											
ixt. Piping Guarantee	Max. Length Max. Height ed Operating Range	Out-In Out-In Cooling	m m °C	12 -10 ~ +46	12 -10 ~ +46	30 -15 ~ +46	30 -15 ~ +46	30 -15 ~ +46						

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SEZ-M series	Inverter Control DC Roary	CF Fan Mater
Indoor Unit	Outdoor Unit	R410A)
R410A	R410A) SUZ-KA25/35VA6	SUZ-KA50/60/71VA6
SEZ-M25/35/50/60/71DA (Requires Wired Remote Controller) SEZ-M25/35/50/60/71DAL (Wireless Remote Controller is enclosed)	Remote Controller	*optional (for SEZ-M DA)
	VET (Ni-Fi J)) Interface Optimal Connection Connection Connection Connection Connection	Set Failure Diagnosis Recall

Гуре						Inverter Heat Pump								
ndoor Un	it			SEZ-M25DA(L)	SEZ-M35DA(L)	SEZ-M50DA(L)	SEZ-M60DA(L)	SEZ-M71DA(L)						
Dutdoor L	Jnit			SUZ-KA25VA6	SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6	SUZ-KA71VA6						
efrigerar	nt					R410A*1								
ower	Source			Outdoor power supply										
upply	Outdoor (V/Phase/H	z)		230 / Single / 50										
ooling	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	1	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,*4			5.3	5.7	5.8	5.3	5.3						
		Energy Efficiency Class		А	A+	A+	A	А						
eating	Capacity	Rated	kW	2.9	4.2	6.4	7.4	8.1						
verage		Min - Max	kW	1.3 - 4.5	1.7 - 5.0	1.7 - 7.2	2.5 - 8.0	2.6 - 10.4						
eason)	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 temp		kW	1.9 (-10°C)	2.5 (-10°C)	4.1 (-10°C)	4.5 (-10°C)	5.3 (-10°C)						
		at bivalent temperature	kW	1.9 (-7°C)	2.5 (-7°C)	4.1 (-7°C)	4.8 (-7°C)	5.3 (-7°C)						
		at operation limit temperature	kW	1.9 (-10°C)	2.5 (-10°C)	4.1 (-10°C)	4.5 (-10°C)	5.3 (-10°C)						
	Back Up Heating Ca	pacity	kW	0.3	0.3	0.5	1.0	0.7						
	Annual Electricity Co	onsumption*2	kWh/a	808	979	1653	1878	2202						
	SCOP*3.*4	· ·		3.8	4.0	3.9	4.1	3.8						
		Energy Efficiency Class		A	A+	A	A+	A						
peratin	g Current (max)		А	7.4	8.7	12.7	14.7	17.0						
door	Input	Rated	kW	0.040	0.050	0.070	0.070	0.100						
nit	Operating Current (max)		A	0.4	0.5	0.7	0.7	0.9						
	Dimensions <panel> H × W × D</panel>		mm	200 - 790 - 700	200 - 990 - 700	200 - 990 - 700	200 - 1190 - 700	200 - 1190 - 700						
	Weight <panel></panel>		kg	18	21	23	27	27						
	Air Volume [Lo-Mid-H		m <sup>3</sup> /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)	.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						
	Dimensions	$H \times W \times D$	mm	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330	880 - 840 - 330	880 - 840 - 330						
nit	Weight		kg	30	35	54	50	53						
	Air Volume	Cooling	m <sup>3</sup> /min	32.6	36.3	44.6	40.9	50.1						
		Heating	m <sup>3</sup> /min	34.7	34.8	44.6	49.2	48.2						
	Sound Level (SPL)	Cooling	dB(A)	47	49	52	55	55						
		Heating	dB(A)	48	50	52	55	55						
	Sound Level (PWL)	Cooling	dB(A)	58	62	65	65	69						
	Operating Current (max)		A	7.0	8.0	12.0	14.0	16.1						
	Breaker Size		A	10	10	20	20	20						
ĸt.	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88						
iping	Max. Length	Out-In	m	20	20	30	30	30						
Piping	Max. Height	Out-In	m	12	12	30	30 30							
ìuarantee	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46						

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# **SERIES**







# **SELECTION**

Line-up includes a selection of eight indoor units and four series of outdoor units. Easily construct a system that best matches room air conditioning needs.

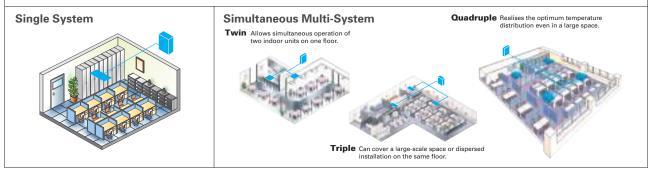
4-way ceiling-cassette       Wall-mounted       PXA-M LA(L)       Power Inverter       Standard Inverter         Quite PLA-2M EA       PLA-M EA       PKA-M KA(L)       PUZ-ZM35/50       Image: Suz-M35         Quite PLA-M       Ceiling-concealed       PEA-M       PUZ-ZM60/71       Image: Suz-M50         Quite PLA-M       Ceiling-suspended       PCA-M       PUZ-ZM100/125/140/       Image: Suz-M60/71         Quite PLA-M HA       Professional Kitchen       PUZ-M100/125/140/       Image: PUZ-M100/125/140/       Image: PUZ-M100/125/140/         Quite PLA-M HA       PUZ-M100/125/140/       Image: PUZ-M100/125/140/       Image: PUZ-M100/125/140/       Image: PUZ-M100/125/140/	INDOOR UNIT	OUTDOOR UN	NIT
PLA-ZM EA       PKA-M LA(L)       PKA-M LA(L)       PUZ-ZM35/50       Image: Celling-concealed         PEAD-M       PEAD-M       PEA-M       PUZ-ZM60/71       Image: Celling-concealed       Image: Celling-concealed <t< th=""><th></th><th>Power Inverter</th><th>Standard Inverter</th></t<>		Power Inverter	Standard Inverter
	PLA-ZM EA PLA-M EA PLA-M EA PLA-M EA PLA-M EA PEAD-M Ceiling-concealed PEAD-M Ceiling-suspended PCA-M Professional Kitchen	PUZ-ZM60/71	SUZ-M50 SUZ-M60/71 PUZ-M100/125/140



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

#### **SELECT COMBINATION**

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



#### Connectable Combinations for Inverter Units

		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 MSDD-50WR2-E	MSDT-111R-E MSDT-111R3-E	MSDF-1111R-E MSDF-1111R2-E

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

# Power Inverter Series

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

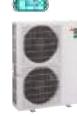






PUZ-ZM35/50VKA

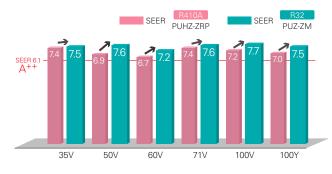
PUZ-ZM60/71VHA



PUZ-ZM100/125/140V(Y)KA PUZ-ZM200/250YKA

# Industry-leading energy efficiency

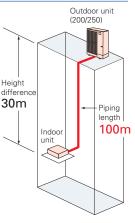
Introduction of new R32 refrigerant realises improved cooling efficiency. Rating of more than 7.0 achieved for all capacity range.



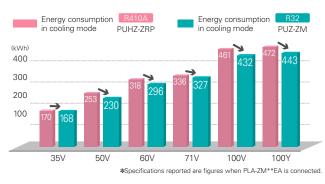
# Longer piping (60/71/100/125/140/200/250)

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



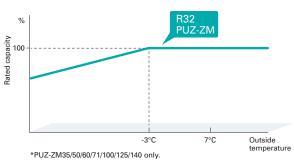


Introduction of new R32 refrigerant reduces energy consumption and realises energy savings.



# Rated heating capacity maintained down to $-3^{\circ}C^{*}$

Rated heating capacity maintained even when the outside temperature is down to  $-3^{\circ}$ 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.

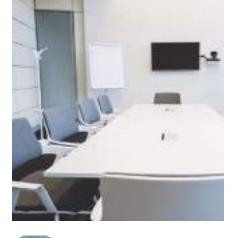




\*Rated noise level will be higher when equipped with this option

# Standard Inverter SERIES

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











SEER





SUZ-M35VA

SEER 6

35V

SUZ-M50VA

Introduction of new R32 refrigerant realises improved cooling effi-

SUZ-KA PUHZ-P

71V

ciency. Rating of more than 6.6 achieved for all capacity range.

SEER

60V

Improved energy efficiency

SUZ-M60/71VA

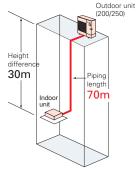
SUZ-M PUZ-M

100Y

# Longer piping (100/125/140/200/250)

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





# Light weight and compact size

50V

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



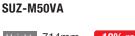
SUZ-KA50VA6

100V

\*Specifications are figures when PLA-RP/M is connected.











PUHZ-P140YHA2 Height 1,350mm Weight 101kg



#### PUZ-M140YKA



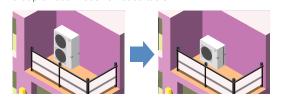
#### Easy transportation and installation





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

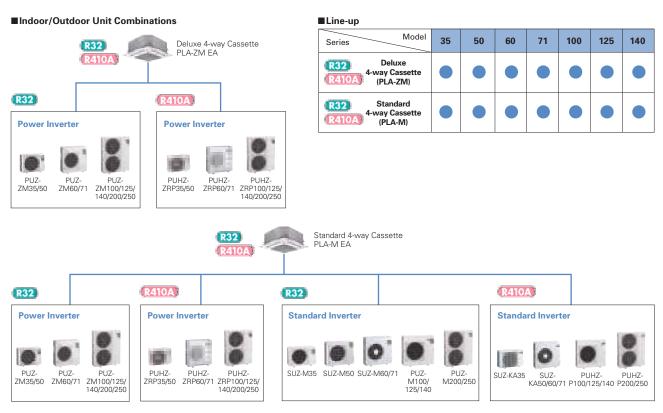
Unobstructive, compact, and easy to hide from view Conventional outdoor units may spoil the view. Due to its compact size, the new model can be installed in locations that previous model is not suitable.





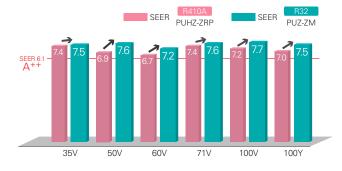
#### Deluxe 4-way Cassette Line-up

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.

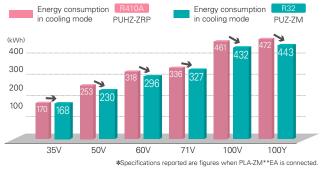


# Industry-leading energy efficiency

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



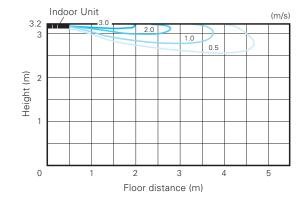
Introduction of new R32 refrigerant reduces energy consumption and realises energy savings.



# **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.



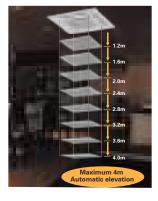




Grille Elevation Remote Controller (comes with the automatic elevation panel)

Wired Remote Controller





# **Easy Installation**

#### Electrical box wiring

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

#### Previous model (B Series)



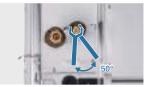




#### Increased space for plumbing work

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 issee 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.



Room occupancy energy save mode

No occupancy energy save mode

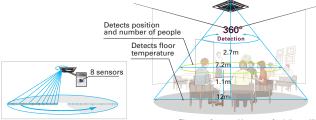
ccupancy Auto-Off mod

Detects number of people



Detects people's position





ററ

Floor surface \*In case of a 2.7m ceiling

30

1C°

2C°

power

savings

Auto-Off

power

savings

# 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 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.



#### 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-40MAA 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-40MAA is required for each setting



\*PAR-40MAA is required for each setting.

					SERIE	S SEL	ECTIO	N						
Power Inve	erter S	Series	5		Pure White ∲	Inverter	Joint Lap	tor Sine Wave	DC Fan Meter	Vector-Wave	PAM	Power Receiver	Letter Hea	as-71 t Caulking ng Method
Indoor Unit					Outdoor Ur	nit						112	1	
			œ		1 mar	1.00	1.	-						
					For Single				9	P				
Panel PLA-Z	ZM35/50	/60/71/	100/125/1	40EA			PUZ-ZI	M35/50	PUZ-	ZM60/71		PUZ-ZN	1100/125/1	40
Panel S	With Signal eceiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation								112		
PLP-6EA PLP-6EAL	~				× *				100			6		
PLP-6EAE	~	1							12	-				
PLP-6EALE PLP-6EAJ	×	~		~	For Multi				19	1		18		
PLP-6EAJE PLP-6EALM	✓ ✓	1	1	~	(Twin/Triple/Q	uadrupie)			185		i	US.		
PLP-6EALME	✓ ✓	1	~						PU:	Z-ZM71	PUZ	ZM100	/125/140/20	00/250
Remote Contro	oller			Optional	Optional		Optional	* * Enc	losed in PLI	P-6EALM/F	PLP-6EALN	ЛЕ		

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

		Outdoor Unit Capacity																			
Indoor Unit Combination		For Single										For Twin					F	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 (PUHZ-ZRP)		50x1	60x1	71x1	100x1	125x1	140x1	-	-	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	_	N	1SDD-	50TR2	-E	MS 50W	DD- 'R2-E	MSE	DT-111	R3-E		DF- IR2-E



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

Indoor	or Unit Combination	Outdoor Unit Capacity																			
		For Single								For Twin					For Triple			For Quadruple			
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Standa	Standard Inverter (SUZ & PUHZ-P)		50x1	60x1	71x1	100x1	125x1	140x1	-	-	-	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
Distribution Pipe		-	-	-	-	-	_	-	-	-	– MSDD-50TR2-E MSDD- 50WR2-E					MSDT-111R3-E			MSDF- 1111R2-E		

	Keese         Demand         Pure           Opsionit         Opsionit         Opsionit         White &	AUTO VANE Fresh-air Intako	High-efficiency Optional	SWING High Ceiling Low Ceiling	Get Cooling
PLA-ZM SERIES POWER INVERTER	Silent	Group Control	M-NET connection Wi-Fi )) Interface	Wiring Reuse Lift Up	Pump Flare Failure Recall

Туре				Inverter Heat Pump											
Indoor Ur	nit			PLA-	PLA-	PLA-	PLA-			St 4 74					
1110001 01				ZM35EA	ZM50EA	ZM60EA	ZM71EA	PLA-ZN	1100EA	PLA-ZN	/125EA	PLA-ZN	1140EA		
Outdoor	Unit			PUZ-	PUZ-	PUZ-	PUZ-	PUZ-	PUZ-	PUZ-	PUZ-	PUZ-	PUZ-		
Outdoor	onit			ZM35VKA	ZM50VKA	ZM60VHA	ZM71VHA	ZM100VKA	ZM100YKA	ZM125VKA	ZM125YKA	ZM140VKA	ZM140YKA		
Refrigera	nt			ZIVISSVKA	ZIVIOUVKA	ZIVIOUVITA	ZIVITIVITA	R3		ZIVITZOVKA	ZIVITZOTKA	ZIVIT4UVNA	ZIVIT4UTKA		
Power	Source							Outdoor po							
	Outdoor (V/Phase	(H					\/KΔ • \/H	A:230 / Single /		hree / 50					
				3.6	F 0	0.1		9.5	9.5	12.5	12.5	13.4	13.4		
Cooling	Capacity	Rated Min - Max	kW kW	3.0	5.0 2.3 - 5.6	6.1 2.7 - 6.5	7.1 3.3 - 8.1	9.5	9.5	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0		
	T	Rated	kW kW	0.705	2.3 - 5.6	1.452	1.651	2.065	2.065	3.378	3.378	3.722	3.722		
	Total Input EER	naled	KVV	5.10			4.30	4.60	4.60	3.70	3.70	3.60	3.60		
		EEL Rank		5.10	4.52	4.20	4.30	4.60	4.60	3.70	3.70	3.60	- 3.00		
	Design Load	EEL RANK	kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	-		
	Annual Electricity	Concumption*2	kWh/a	168	230	296	327	432	443	_	-	-	-		
	SEER*4	consumption	IVANI/9	7.5	7.6	7.2	7.6	432	7.5	_	_	_	_		
		Energy Efficiency Class		A++	7.0 A++	7.2 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	Capacity	Min - Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0		
Season)	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	hated	1 1000	5.00	4.40	4.10	4.40	4.30	4.30	3.81	3.81	3.71	3.71		
		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)	-	-	-	-		
	Deciarea capacity	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			4.7	4.9	4.6	4.8	4.8	4.8	-	-	-	-		
		Energy Efficiency Class		A++	A++	A++	A++	A++	A++	-	-	-	-		
Operatin	g Current (max)		A	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	<b>Operating Current</b>	(max)	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		12-14-16-18						21-24-26-29				
	Sound Level (SPL)		dB(A)					31-34-37-40							
	Sound Level (PWL		dB(A)	51	54	54	57	61	61	62	62	65	65		
Unit		H × W × D	mm	630 - 80			330 (+25)	110	100		0 - 330 (+40)	110	101		
Unit	Weight	0 r	kg	46	46	70	70	116	123	116	125	118	131		
	Air Volume	Cooling	m <sup>3</sup> /min	45	45	55	55	110	110	120	120	120	120		
	0	Heating	m <sup>3</sup> /min	45 44	45	55	55 47	110 49	110 49	120 50	120 50	120 50	120 50		
	Sound Level (SPL)	Cooling	dB(A)	44	44	47						50			
	Cound Lough (DM/L)	Heating	dB(A) dB(A)	46	46	49	49 67	51 69	51 69	52 70	52 70	52	52 70		
				13.0	65 13.0	67 19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0		
	Operating Current (max) Breaker Size		A	13.0	13.0	25	25	32	8.0	32	9.5	40	16		
Ext.	Diameter	Liquid / Gas	mm	6.35		9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88		
Ext. Piping	Max. Length	Out-In	m	50	50	55	55	100	100	100	100	100	100		
ping	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30		
Guarante	ed Operating Range	Coolina*3	°C	-15 ~ +46		-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46		
[Outdoor]		Heating	°C	-11 ~ +21	-15 ~ +46	-15 ~ +46	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21		
,00000		ricating		11 ~ 721	1 -11~+21	-20~+21	20~721	20~721	20~721	20~721	1 .20 ~ ±21	-20 ~ +21	20~721		

Control of the set of the se

12.

*4 SEER an	d SCOP ar	e based or	1 2009/125/EC	:Energy-related	Products Direct	ctive and	Regulation(EU)	No206/2012

	ř-see Sensor Optimal	Demand Control Optional	AUTO VANE	Fresh-air Intake	High-efficiency Optional	Long Life	Check!	SWING	High Ceiling	Low Ceiling	SAUTO		Çi≑O Aco	Auto Restart	Low Temp Cooling
PLA-M SERIES STANDARD INVERTER		Ampere Limit Rotation Back-up	Optional	Group Control	M-NET connection	СОМРО	Wi-Fi )) Interface	Cleaning-irde, pipe reuse	Wiring Reuse	Drain Lift Up	Pump Down	Flare connection	Self Diagnosis	Failure Recall	

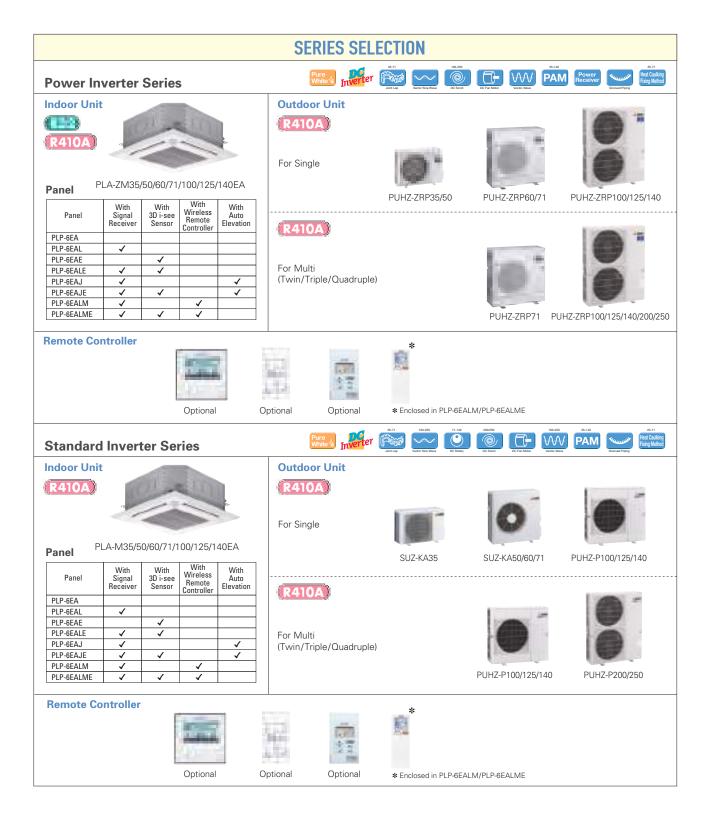
Туре				Inverter Heat Pump											
oor Unit				PLA- M35EA	PLA- M50EA	PLA- M60EA	PLA- M71EA	PLA-M	1100EA	PLA-M	125EA	PLA-M	140EA		
tdoor Uni	hit			SUZ- M35VA	SUZ- M50VA	SUZ- M60VA	SUZ- M71VA	PUZ- M100VKA	PUZ- M100YKA	PUZ- M125VKA	PUZ- M125YKA	PUZ- M140VKA	PUZ- M140YKA		
frigerant								R3	2*1						
wer So	ource			Outdoor power supply											
pply Οι	Outdoor (V/Phase)	'Hz)		VA • VKA:230 / Single / 50, YKA:400 / Three / 50											
oling Ca	apacity	Rated	kW	3.6	5.5	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4		
. <b>J</b>		Min - Max	kW	0.8 - 3.9	1.2 - 5.6	1.6 - 6.3	2.2 - 8.1	4.0 - 10.6	4.0 - 10.6	5.8 - 13.0	5.8 - 13.0	5.8 - 14.1	5.8 - 14.1		
То	otal Input	Rated	kW	0.90	1.61	1.84	1.91	2.71	2.71	4.01	4.01	4.96	4.96		
EE	ER			4.00	3.40	3.30	3.70	3.50	3.50	3.01	3.01	2.70	2.70		
		EEL Rank		-	-	-	-	-	-	-	-	-	-		
	esign Load		kW	3.6	5.5	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4		
An	nnual Electricity	Consumption*2	kWh/a	170	285	320	331	474	474	-	-	-	-		
SE	EER*4	•		7.4	6.7	6.6	7.5	7.0	7.0	-	-	-	-		
		Energy Efficiency Class			A++	A++	A++	A++	A++	-	-	-	-		
	apacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	13.5	13.5	15.0	15.0		
erage		Min - Max	kW	1.0 - 5.0	1.5 - 7.2	1.6 - 8.0	2.0 - 10.2	2.8 - 12.5	2.8 - 12.5	4.1 - 15.0	4.1 - 15.0	4.2 - 15.8	4.2 - 15.8		
ison) To	otal Input	Rated	kW	0.97	1.73	1.84	2.21	3.01	3.01	3.63	3.63	4.39	4.39		
CC	OP			4.20	3.46	3.80	3.61	3.71	3.71	3.71	3.71	3.41	3.41		
		EEL Rank		-	-	-	-	-	-	-	-	-	-		
	esign Load		kW	2.6	4.3	4.6	5.8	8.0	8.0	8.5	8.5	9.4	9.4		
De	eclared Capacity	at reference design temperature	kW	2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)	6.0 (-10°C)	6.0 (-10°C)	8.5 (-10°C)	8.5 (-10°C)	9.4 (-10°C)	9.4 (-10°C)		
		at bivalent temperature	kW	2.3 (–7°C)	3.8 (-7°C)	4.1 (-7°C)	5.2 (–7°C)	7.0 (–7°C)	7.0 (–7°C)	8.5 (–10°C)	8.5 (–10°C)	9.4 (-10°C)	9.4 (-10°C)		
		at operation limit temperature	kW	2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (–10°C)	4.5 (–15°C)	4.5 (-15°C)	6.0 (–15°C)	6.0 (–15°C)	7.0 (–15°C)	7.0 (–15°C)		
	ack Up Heating C		kW	0.3	0.5	0.5	0.6	2.0	2.0	-	-	-	-		
	Innual Electricity	Consumption*2	kWh/a	774	1456	1458	1796	2428	2428	-	-	-	-		
SC	COP*4			4.7	4.1	4.4	4.5	4.6	4.6	-	-	-	-		
		Energy Efficiency Class		A++	A+	A+	A+	A++	A++	-	-	-	-		
	Current (max)		A	8.7	13.7	15.0	15.1	20.5	12.0	27.2	12.2	30.7	12.2		
	nput	Rated	kW	0.03	0.03	0.03	0.04	0.07	0.07	0.10	0.10	0.10	0.10		
	perating Current		A	0.20	0.22	0.24	0.27	0.46	0.46	0.66	0.66	0.66	0.66		
	imensions <panel></panel>	H×W×D	mm		258 - 840 - 840 -					0 - 840 <40 - 95					
	Veight <panel></panel>		kg	19 <5>	19 <5>	21 <5>	21 <5>	24 <5>	24 <5>	26 <5>	26 <5>	26 <5>	26 <5>		
	ir Volume [Lo-Mi2		m <sup>3</sup> /min		12-14-16-18							24-26-29-32			
	ound Level (SPL)	[Lo-Mi2-Mi1-Hi]	dB(A)	26-28-29-31		27-29-31-32						36-39-42-44			
	ound Level (PWL)		dB(A)	51	54	54	56	61	61	65	65	65	65		
	imensions	H × W × D	mm		714-800-285	880-84		70	78	981-1050		0.4	85		
	Veight	0	kg	35	41	54	55	76		84	85 86.0	84			
AI	ir Volume	Cooling	m <sup>3</sup> /min	34.3 32.7	45.8	50.1	50.1	79.0 79.0	79.0 79.0	86.0 92.0	92.0	86.0 92.0	86.0 92.0		
-		Heating	m <sup>3</sup> /min	32.7	43.7	50.1 49	50.1 49	79.0			92.0	92.0	92.0		
50	ound Level (SPL)	Cooling Heating	dB(A) dB(A)	48	48	49 51	49 51	51	51 54	54 56	54	55	55		
6.	ound Level (PWL)		dB(A)	48 59	49 64	65	66	70	70	72	72	73	73		
			A A	8.5		14.8	14.8	20.0	11.5	26.5	11.5	30.0	11.5		
	Operating Current (max) Breaker Size		A	8.5	13.5 20	20	20	32	11.5	32	11.5	40	16		
		Liquid (Coo											9.52 / 15.88		
													9.52 / 15.88		
													30		
													-15 ~ +46		
utdoor]	operating nalige	Heating	°C	-10 ~ +24	-15 ~ +46 -10 ~ +24	-10 ~ +24	-10 ~ +24	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21		
t. ing Ma maranteed ( utdoor] Refrigeran	Diameter Max. Length Max. Height I Operating Range Int leakage contribut	Liquid / Gas Out-In Out-In Cooling* <sup>3</sup> Heating es to climate change. Refrig to a CWD agout to 550. This	mm m °C °C °C gerant w	6.35 / 9.52 20 12 -10 ~ +46 -10 ~ +24 ith lower global	6.35 / 12.7 30 -15 ~ +46 -10 ~ +24 warming potenti	6.35 / 15.88 30 -15 ~ +46 -10 ~ +24 al (GWP) would	9.52 / 15.88 30 -15 ~ +46 -10 ~ +24 contribute less t	9.52 / 15.88 55 30 -15 ~ +46 -15 ~ +21 o global warmin	9.52 / 15.88 55 30 -15 ~ +46 -15 ~ +21 g than a refrigera	9.52 / 15.88 65 30 -15 ~ +46 -15 ~ +21 ant with higher (	9.52 / 15.88 65 30 -15 ~ +46 -15 ~ +21 GWP, if leaked to	9.52 / 15.88 65 30 -15 ~ +46 -15 ~ +21 the atmosphe	ere		

\*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 than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance 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 in protection guide is required where ambient temperature is lower than -6°C.
\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

	F-see Sensor Optional Optional	AUTO VANE Frestvair Intake	Long Life Check!		Cooling
PLA-M SERIES POWER INVERTER	Silent Silent Rotation	Group Control M-NET	COMPO Wi-Fi )) Interface	Wiring Drain Pump Reuse Lift Up Dowr	Flare connection Set Diagnosis Failure Recal

Туре								Inverter F	leat Pump				
Indoor U	nit			PLA- M35EA	PLA- M50EA	PLA- M60EA	PLA- M71EA	PLA-M	100EA	PLA-M	125EA	PLA-M	140EA
Outdoor	l Init			PUZ-									
00000	onic			ZM35VKA	ZM50VKA	ZM60VHA	ZM71VHA	ZM100VKA	ZM100YKA	ZM125VKA	ZM125YKA	ZM140VKA	ZM140YKA
Refrigera	nt			ZIVISSVICA	ZIVIJUVIKA	210100 01174	21017101174	R3		ZIVITZJVINA	ZIVITZJIKA	2101140104	21011401104
Power	Source							Outdoor po					
Supply	Outdoor (V/Phase	/Hz)					VKA • VH	A:230 / Single /		hree / 50			
Cooling		Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
Cooling		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
		Rated	kW	0.751	1.175	1.523	1.716	2.084	2.084	3.399	3.399	3.746	3.746
	EER	nateu		4.79	4.25	4.00	4.14	4.56	4.56	3.68	3.68	3.58	3.58
		EEL Rank		-	4.25	4.00	-	-	-	-	-	-	-
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	172	234	299	332	435	446	_	-	-	-
	SEER*4	oonoumption	interny a	7.3	7.4	7.1	7.4	7.6	7.4	-	-	-	-
		Energy Efficiency Class		A++	A++	A++	A++	A++	A++	-	-	-	-
Heating		Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
(Average		Min - Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Season)		Rated	kW	0.890	1.581	1.863	2.014	2.685	2.685	3.773	3.773	4.365	4.365
	COP			4.61	3.79	3.76	3.97	4.17	4.17	3.71	3.71	3.67	3.67
		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	797	1184	1420	1432	2521	2521	-	-	-	-
	SCOP*4	E 5//1 0		4.3	4.4	4.3	4.6	4.3	4.3	-	-	-	-
0		Energy Efficiency Class		A+	A+	A+	A++ 19.3	A+ 27.0	A+	-	-	-	- 13.7
Indoor	g Current (max)	D I	A kW	13.2	13.2	19.2	0.04	0.07	8.5 0.07	27.2 0.10	10.2 0.10	28.7 0.10	0.10
Unit	Input Operating Current	Rated	A	0.03	0.03	0.03	0.04	0.46	0.46	0.66	0.66	0.66	0.66
onit	Dimensions <panel></panel>		mm		0 - 840 <40 - 95		0.27	0.40		0.66		0.00	0.00
	Weight <panel></panel>		ka	19 <5>	19 <5>	21 <5>	21 <5>	24 <5>	298 - 84	26 <5>	26 <5>	26 <5>	26 <5>
	Air Volume [Lo-Mi2	Mi1-Hil	m³/min		12-14-16-18							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	56	61	61	65	65	65	65
Outdoor		H × W × D	mm		09 - 300	943 - 950 -					) - 330 (+40)		
Unit	Weight		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
		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	(max)	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		/ 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
<u></u>	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Guarante (Outdoor		Cooling* <sup>3</sup> Heating	°C °C	-15 ~ +46 -11 ~ +21	-15 ~ +46 -11 ~ +21	-15 ~ +46 -20 ~ +21							
LOULUOOL	1	rneauna	1.0	I −II ~ +ZI	$  -    \sim +21$	$1 - 20 \sim \pm 21$	-zu ~ +z	I −∠U ~ +∠I	I −∠∪ ~ +∠ I	−∠∪ ~ +∠	I −∠U ~ +∠I	I −∠∪ ~ +∠ I	I −∠U ~ +∠I

 Guaranteed Operating Range
 Cooling\*<sup>3</sup>
 °C
 15 × +46
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### PLA-ZM/RP EA Indoor Unit Combinations Indoor unit combinations shown below are possible.

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

		Ĭ-see Sensor	Demand Control	Pure White 🐼	AUTO /ANE	take High-efficiency	Long Life		High Ceiling	ailing 🖉 🗲 AU	то		Low Temp Cooling
	ZM SERIES	Optional	Optional			Optional							
<b>FLA</b>	LIVI SERIES		60-1401/200/250										
POWER	NVFRTFR	Silent	Ampere	Rotation Back-up	Group Contro	M-NET	COMPO Wi-	Fi )) Cleaning-free,	Wiring Reuse L	Drain Pum .ift Up Dow			ure
TOWER		Silent C	Limit	Back-up)	Contract	connection		nace weight	Heuse	.ift Up Dow		Diagnosis Rec	Ball
-				Opionia	opioni	opional	- Opi		opiona				
Туре					1		r	Inverter H	leat Pump	1			
Indoor Ur	nit			PLA-	PLA-	PLA-	PLA-	PLA-7N	/100EA	PLA-7N	/125EA	PLA-ZN	/140FA
				ZM35EA	ZM50EA	ZM60EA	ZM71EA				-		
Outdoor I	Unit			PUHZ-	PUHZ-	PUHZ-	PUHZ-	PUHZ-	PUHZ-	PUHZ-	PUHZ-	PUHZ-	PUHZ-
				ZRP35VKA2	ZRP50VKA2	ZRP60VHA2	ZRP71VHA2		ZRP100YKA3	ZRP125VKA3	ZRP125YKA3	ZRP140VKA3	ZRP140YKA3
Refrigera								R41					
Power	Source							Outdoor po					
Supply	Outdoor (V/Phase	/Hz)						IA: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 - 6.5	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			-	-	-	-	-	-	3.25	3.25	3.07	3.07
		EEL Rank	1	-	-	-	_	-	-	-	-	-	-
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	170	253	318	336	461	472	-	-	-	-
	SEER*4	F		7.4 A++	6.9 A++	6.7 A++	7.4	7.2 A++	7.0 A++	-	-	-	-
	0	Energy Efficiency Class				A++ 7.0	A++			- 14.0	- 14.0	- 16.0	- 16.0
Heating (Average	Capacity	Rated Min - Max	kW kW	4.1	6.0 2.5 - 7.3	2.8 - 8.2	8.0 3.5 - 10.2	11.2 4.5 - 14.0	11.2 4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Season)	Tetal laws	Rated	kW	0.85	1.55	1.89	1.90	2.60	2.60	3.67	3.67	4.84	4.84
ocuson)	Total Input COP	naled	KVV	0.85	1.55	1.89	1.90	2.60	2.60	3.81	3.81	3.30	3.30
	COP	EEL Rank		-	-	_		_	_	- 3.01	3.01	3.30	-
	Design Load		l 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)	-	_	_	_
	Deciareu Capacity	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 (		kW	0	0	0	0	0	0	-	_	-	-
	Annual Electricity		kWh/a	714	1109	1337	1342	2229	2229	-	-	-	-
	SCOP*4	Concerning	1	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)		A	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	<b>Operating Current</b>		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 - 9			
	Weight <panel></panel>		kg		21 <5>		24 <5>	26 <5>	26 <5>	26 <5>	26 <5>	26 <5>	26 <5>
	Air Volume [Lo-Mi		m³/min	11-13-15-16				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)	26-28-29-31		27-29-31-32						36-39-42-44	
	Sound Level (PWL		dB(A)	51	54	54	57	61	61	62	62	65	65
Outdoor Unit	Dimensions	H × W × D	mm	630 - 80 43	09 - 300 46	943 - 950	- 330 (+30) 70	116	123	1338 - 1050	) - 330 (+40) 125	118	131
Unit	Weight Air Volume		kg m³/min	43	46	55	55	110	123	116	125	118	131
	Air volume	Cooling Heating	m³/min	45	45	55	55	110	110	120	120	120	120
	Sound Level (SPL)	Cooling	dB(A)	45	45	47	47	49	49	50	50	50	50
	Sound Level (SFL)	Heating	dB(A)	44	44	47	47	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
	Max. Length	Out-In	m	50	50	50	50	75	75	75	75	75	75
. 5	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

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PLA-M SERIES	ř-see Sensor Optonal	Demand Control	Pure Vhite☆	AUTO VANE	Fresh-air Intake	High-efficiency Optional	ong Life	Check!	NG High Ceiling	Low Ceiling	<b>S</b> AUTO		Q≑O Aco	44 Auto Restart	Low Temp Cooling
<b>TLA-IVI</b> SERIES Standard inverter	Silent	PUHZ Rotation Back-up		Group Control	SUZ Group Control	M-NET C	COMPO	Wi-Fi )) Interface	NZZ nection Centing-free,	Wiring Reuse	Drain Lift Up	PUHZ	Flare connection	Self Diagnosis	Failure Recal

Indio DIV         FLA         PLA	Туре								Inverter H	leat Pump				
Refigurant         KABGWAB         KABGWAB         KABGWAB         KABGWAB         KABGWAB         KABGWAB         KABGWAB         P100YKA         P125YKA	Indoor Ur	nit							PLA-M	1100EA	PLA-M	125EA	PLA-M	140EA
Porver Proportional Control (V)Phase(Hz)         Under proviet supply Vertical proviet supply Vertical proviet supply Vertical proviet supply Vertical proviet supply Min. Max. KW         16.1           Cooling Element Segs         Rated Min. Max. Vertical proviet Min. Max. Vertical provi Min. Max. Vertical proviet Min. Max. Vertical proviet Min. Min.									P100VKA	P100YKA				
Supply         United (V/Pass-/H2)         VIVIA 230 / Single / S0, VXA.400 / There / S0           Cooling         Capacity         Rated         kW         1.4.3         2.3 - 5.6         2.3 - 6.1         2.7 - 1.6         5.6 - 1.3         5.7         7.1         9.4         9.4         -	Refrigera	nt							R41	0A*1				
Supply         Unitable Vision									Outdoor po	wer supply				
Norm         Min         Num         W         14 - 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         6.8 - 14.1         5.8 - 14.1           EFR         -         -         -         -         2.95         2.51	Supply	Outdoor (V/Phase	/Hz)					VA • VKA			nree / 50			
Norm         Min         Num         W         14 - 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         6.8 - 14.1         5.8 - 14.1           EFR         -         -         -         -         2.95         2.51	Cooling	Canacity	Bated	kW.	3.6	5.5	57	71	94	94	12.1	12.1	13.6	13.6
Total Input         Rated         W         1.02         1.61         1.76         2.10         3.18         3.18         4.10         4.10         4.10         6.41         5.41           Eff         -         -         -         -         -         -         2.95         2.95         2.95         2.95         2.51	ocoming	oupdoiry												
EER         Interference         Image: Construction of the set of t		Total Input												
Final Decision Load         Field Note         <			nated											
Design Load         Image: Non-sumption         Image: Non-sumption         Number Non-sumption		CCN	EEL Bank											
Annual Electricity Consumption*         Wh/he         181         295         307         400         538         538         -		Design Lood												
SEER**         Incargy Efficiency Class         A++			Concumption*2											
Image: Construct Transmission         Energy Efficiency Class         A++			consumption	KVVII/d										
Heating (Average Sesson)         Bated         kW         4.1         5.8         6.9         8.0         11.2         11.2         13.5         13.5         15.0         15.0           Sesson         Total Input         Rated         kW         17.7         2.5         2.5         2.12         2.8         3.84         3.84         4.67         4.67           Operating         Gain Load         kW         17.7         2.2         2.5         8.0         3.0         3.43         3.34         3.84         4.67         4.67           Declared Capacity         attreence design temperature         kW         2.3         1.60         4.0         1.0°C         4.7         1.0°C         6.0         -		SEER	En anno Efficiences Olarea											
Kiverage         Min.:         Max         KW         17.75.0         17.77.2         25.80         26.71.02         28.71.25		0		1.1.47										
Season Portal Input         Rated         KW         1.00         1.69         1.97         2.24         3.26         3.26         3.84         3.84         4.67         4.67           Coperating Declared Capacity at reference design temperature at operation limit temperature		Capacity												
Cop         Field         Indian         1.02         <														
Perform         FEL Bank         -        -	SedSUII)		Rated	KVV										
Design Load         kW         2.6         4.3         4.6         5.8         8.0         8.0         - <th></th> <th>COP</th> <th></th>		COP												
Declared Capacity at bivelence design temperature at bivelence design temperature at bivelence temperature at operation limit temperature temperature at operation limit temperature temperature at operation limit temperature kW         2.3 (-10°C)         3.8 (-10°C)         4.0 (-10°C)         6.0 (-10°C)         -			EEL Rank											
at besident temperature to generationit temperature to generationit temperature to generationit temperature (Construction 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)         -		Design Load												
Intermetation         Interme		Declared Capacity												
Back Up Heating Capacity         kW         0.3         0.5         0.6         1.1         2.0         2.0         -												-	-	-
Annual Electricity Consumption*2         Wh/a         826         1505         1498         1888         2432         2432         -											-	-	-	-
SCOP+4         Energy Efficiency Class         A+         A+ <t< th=""><th></th><th></th><th></th><th></th><th></th><th>0.5</th><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th><th>-</th></t<>						0.5							-	-
Coperating Current (max)         A         A+         A+         A+         A+         A+         A++			Consumption*2	kWh/a							-	-	-	-
Operating Current (max)         A         8.4         12.2         14.2         16.4         20.5         12.0         27.2         12.2         30.7         12.2           Indoor         Input         Rated         kW         0.03         0.03         0.03         0.04         0.07         0.10         0.16 <th></th> <th>SCOP*4</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th>-</th> <th>-</th> <th>-</th>		SCOP*4									-	-	-	-
Index         Input         Rated         I/W         0.03         0.03         0.04         0.07         0.07         0.10         0.10         0.10         0.10           Operating Current (max)         A         0.22         0.24         0.27         0.46         0.46         0.66<			Energy Efficiency Class											
Unit         Operating Current (max)         A         0.20         0.22         0.24         0.27         0.46         0.46         0.66<		g Current (max)												
Dimensions         Parallel         H × W × D         mm         226         240         940         260         950         200         228         840         840         240         950         950         950           Weight          Air Volume         ID-Mit         19<         5>         21<         5>         24<         5>         24<         5>         24<         5>         26         55         26         5>         26<         5>         26<         5>         26<         5>         26         5>         26         5>         26         5>         26         5>         26         5>         26<         5>         26<         5>         26         5>         26         5>         26         5>         26         5>         26         5>         26         5>         26         5>         26         5>         24         26         29.32         24         26         29.32         24         26         29.32         24         26         29.32         24         26         29.32         24         26         50         53         76         78         84         85         84         85         84         85														
Weight = Anels         kg         19 < 5>         12 < 5>         21 < 5>         24 < 5>         24 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         26 < 5>         24 < 5>         23 < 23 < 31 < 31 < 31 < 31 < 31 < 31 <	Unit			A					0.46				0.66	0.66
Air Volume (Lo-Miz-Mi1+Hi)         m/min         11-13-15-16         12-14-16-18         12-14-16-18         14-17-19-21         19-23-26-29         21-25-28-31         24-26-29-32         24-26-39-34         31-34-37-40         31-34-37-40         33-37-41-44         33-37-41-44         36-39-42-44         36-39-42-44         36-39-42-44         36-39-42-44         36-39-42-44         36-39-42-44         36-39-42-44         36-39-42-44         36-39-42-44         36-39-42-44         36-39-44-44         36-39-42-44         36-39-42-44         36-39-42-44         36-39-442-4         36-39-442-4         36-39-442-4         36-39-442-4         36-39-442-4         36-39-442-4         36-39-442-4         36-39-442-4<		Dimensions <panel></panel>	H × W × D	mm										
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Weight <panel></panel>		kg	19 <5>	19 <5>								
Sound Level (PWL)         GB(A)         0         51         0         54         54         56         61         61         61         65														
Outdoor         Dimensions         H × W × D         mm         fs0-800-285         880-840-330         981-1050-330           Weight Air Volume         Kag         35         54         50         53         76         78         84         85         84         85           Sound Level (SPL)         Cooling Cooling         m²/min         34.8         44.6         49.2         48.2         79         79         86         8		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
Unit         Weight         kg         35         54         50         53         76         78         84         85         84         85           Air Volume         Cooling         m'/min         36.3         44.6         40.9         50.1         79         79         92		Sound Level (PWL		dB(A)					61	61			65	65
Air Volume         Cooling         m/min         36.3         44.6         40.9         50.1         79         79         86 <th< th=""><th></th><th>Dimensions</th><th>H × W × D</th><th>mm</th><th>550 - 800 - 285</th><th></th><th>880 - 840 - 330</th><th></th><th></th><th></th><th>981 - 10</th><th>50 - 330</th><th></th><th></th></th<>		Dimensions	H × W × D	mm	550 - 800 - 285		880 - 840 - 330				981 - 10	50 - 330		
Heating         m/min         34.8         44.6         49.2         48.2         79         79         92         93         93         93         93	Unit	Weight		kg	35	54	50	53	76		84	85	84	
Heating         m/min         34.8         44.6         49.2         48.2         79         79         92			Cooling	m³/min	36.3	44.6	40.9	50.1	79		86	86	86	
Heating         Heating         dB(A)         50         52         55         55         54         54         56         56         57         57           Sound Level (PWL)         Cooling         dB(A)         62         65         65         69         70         70         72         72         75         75           Operating Current (max)         A         8.2         12.0         14.0         16.1         20         11.5         26.5         11.5         30.0         11.5           Breaker Size         A         10         20         20         20         32         16         32         16         40         16           Breaker Size         Liquid/Gas         mm         6.35/9.52         6.35/12.7         6.35/15.88         9.52/			Heating	m³/min	34.8		49.2		79	79	92	92	92	92
Sound Level (PWL)         Cooling         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         11.5         26.5         11.5         30.0         11.5           Breaker Size         A         10         20         20         20         32         16         32         16         40         16           Breaker Size         Max. Length         Out-In         m         6.35/12.7         6.35/12.7         6.35/15.88         9.52/15.88		Sound Level (SPL)	Cooling	dB(A)	49	52	55	55	51	51	54	54	56	56
Sound Level (PWL)         Cooling         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         11.5         26.5         11.5         30.0         11.5           Breaker Size         A         10         20         20         20         20         16.5         32         16         32         16         40         16           Breaker Size         Max Length         Out-In         m         6.35/12.7         6.35/15.88         9.52/15					50		55			54	56	56	57	57
Operating Current (max)         A         8.2         12.0         14.0         16.1         20         11.5         26.5         11.5         30.0         11.5           Breaker Size         A         10         20         20         20         32         16         32         16         40         16.5           Ext. Piping         Dimeter         Liquid/Gas         mm         6.35/12.7         6.35/15.8         9.52/15.88 <th></th> <th>Sound Level (PWL)</th> <th></th> <th>dB(A)</th> <th></th> <th></th> <th>65</th> <th></th> <th></th> <th></th> <th>72</th> <th>72</th> <th>75</th> <th>75</th>		Sound Level (PWL)		dB(A)			65				72	72	75	75
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         9.52/15.8														
Ext.         Diameter         Liquid/Gas         mm         6.35/9.52         6.35/15.28         9.52/15.88														
Piping Max. Length         Out-In         m         20         30         30         30         50 </th <th>Ext.</th> <th></th> <th>Liquid / Gas</th> <th></th> <th>9.52 / 15.88</th>	Ext.		Liquid / Gas											9.52 / 15.88
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$														
Guaranteed Operating Range [Outdoor]         Cooling*3 Heating         °C         -10 ~ +46         -15 ~ +46         -15 ~ +46         -15 ~ +46         -15 ~ +46         -15 ~ +46         -15 ~ +46         -15 ~ +46         -15 ~ +46         -15 ~ +46         -15 ~ +46         -15 ~ +46         -15 ~ +46         -15 ~ +46         -15 ~ +46         -15 ~ +46         -15 ~ +21         <								30						
[Outdoor] Heating °C -10 ~ +24 -10 ~ +24 -10 ~ +24 -10 ~ +24 -15 ~ +21 -15 ~														
										-15 ~ +21				
						-					-			

11 Befrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute lease to global warming than a refrigerant thinkinger GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.
\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
\*3 Optional air protection guide is required where ambient temperature is lower than -5°C.
\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

	K-see         Demand         Pure           Optional         Optional         White \$	AUTO VANE Presh-or htake High-efficiency Optional	Long Life Check! SWNG Ceiling	eling ♪ ♣AUTO ♀ ♀ Acco Auto Restart Cooling
PLA-M SERIES POWER INVERTER	Silent C Ampere Limit Back-up	Group Control M-NET connection	COMPO	Viring Leuse Lift Up Down

Туре								Inverter H	eat Pump				
Indoor Ur	iit			PLA- M35EA	PLA- M50EA	PLA- M60EA	PLA- M71EA	PLA-M	100EA	PLA-M	125EA	PLA-M	140EA
Outdoor	Jnit			PUHZ- ZRP35VKA2	PUHZ- ZRP50VKA2	PUHZ- ZRP60VHA2	PUHZ- ZRP71VHA2			PUHZ- ZRP125VKA3	PUHZ- ZRP125YKA3	PUHZ- ZRP140VKA3	PUHZ- ZRP140YKA3
Refrigera	nt							R41					
	Source							Outdoor po					
Supply	Outdoor (V/Phase)	/Hz)					VKA • VH	A:230 / Single /	50, YKA:400 / 1	Fhree / 50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.5	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0
	Total Input	Rated	kW	0.83	1.42	1.75	1.87	2.23	2.23	3.87	3.87	4.39	4.39
	EER			-	-	-	-	-	-	3.23	3.23	3.05	3.05
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	174	258	321	341	465	476	-	-	-	-
	SEER*4	•		7.2	6.7	6.6	7.2	7.1	6.9	-	-	-	-
		Energy Efficiency Class		A++	A++	A++	A++	A++	A++	-	-	-	-
Heating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
(Average		Min - Max	kW	1.6 - 5.8	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
	COP			-	-	-	-	-	-	3.71	3.71	3.26	3.26
		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	apacity	kW	0	0	0	0	0	0	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	764	1212	1418	1402	2468	2468	-	-	-	-
	SCOP*4	•		4.5	4.3	4.3	4.6	4.4	4.4	-	-	-	-
		Energy Efficiency Class		A+	A+	A+	A++	A+	A+	-	-	-	-
Operatin	g Current (max)		A	13.2	13.2	19.2	19.3	27.0	8.5	27.2	10.2	28.7	13.7
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	<b>Operating Current</b>	(max)	A	0.20	0.22	0.24	0.27	0.46	0.46	0.66	0.66	0.66	0.66
	Dimensions <panel></panel>	H × W × D	mm	2	58 - 840 - 840 -	<40 - 950 - 950	>			98 - 840 - 840	<40 - 950 - 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-Mi2		m³/min		12-14-16-18							24-26-29-32	
	Sound Level (SPL)		dB(A)		27-29-31-32		28-30-32-34	31-34-37-40	31-34-37-40			36-39-42-44	
	Sound Level (PWL)		dB(A)	51	54	54	56	61	61	65	65	65	65
		$H \times W \times D$	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)		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
	<b>Operating Current</b>	(max)	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	50	50	75	75	75	75	75	75
	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	–15 ~ +46	–15 ~ +46	–15 ~ +46	-15 ~ +46	-15 ~ +46	–15 ~ +46	-15 ~ +46
[Outdoor]		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21

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### PFA SERIES



### **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.



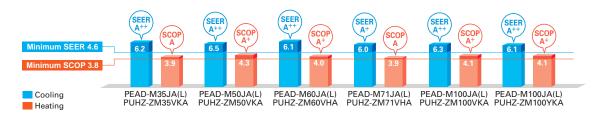
### PEAD-M JA(L)

### **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.





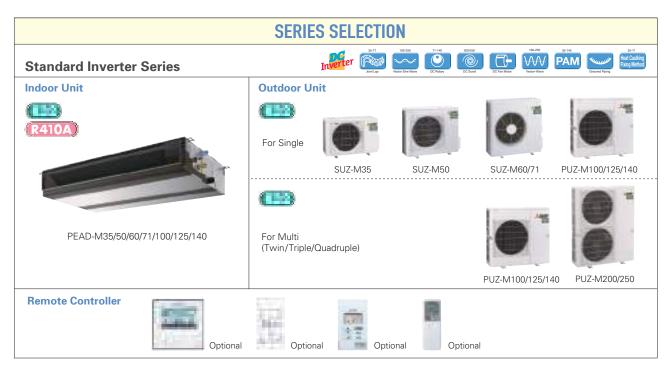
PEAD-M JA → Drain pump built-in

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.

	SERIES SELECTION	N		
Power Inverter Series	Inverter	100-250 T1-140 200/250 200/250 DC Rotary DC Scroll	DC Fan Motor	Heat Caulking Fixing Method
Indoor Unit	Outdoor Unit			-
R410A	Œ		0	
Long ber	For Single		-	-
		PUZ-ZM35/50	PUZ-ZM60/71	PUZ-ZM100/125/140
	<b>(E3</b> )		- 1	•
PEAD-M35/50/60/71/100/125/140	For Multi (Twin/Triple/Quadruple)			0
			PUZ-ZM71	PUZ-ZM100/125/140/200/250
Remote Controller	Optional Option	al Optional		

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

										Outd	oor Ui	nit Cap	pacity								
Indoor l	Unit Combination				Fo	or Sing	le						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 I	nverter (PUHZ-ZRP)	35x1	50x1	60x1	71x1	100x1	125x1	140x1	-	-	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	-	N	ISDD-	50TR2	-E	MS 50W	DD- R2-E	MSE	DT-111	R3-E	MS 1111	DF- R2-E



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

										Outd	oor Ui	nit Cap	pacity								
Indoor	Unit Combination				Fo	or Sing	gle						For <sup>-</sup>	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
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	-	-	-	-	-	-	-	-	-	-	MSD	D-50T	R2-E	MS 50W	DD- 'R2-E	MSE	DT-111	R3-E		DF- R2-E

	Demand Control			Auto Restart	Silent Ampere	Rotation Back-up Optional Option	Wi-Fi )) Interface Optional
PEAD-M SERIES	Cleaning-inte, Wiring Reuse	Drain Lift Up	Flare Self	Failure Recal			

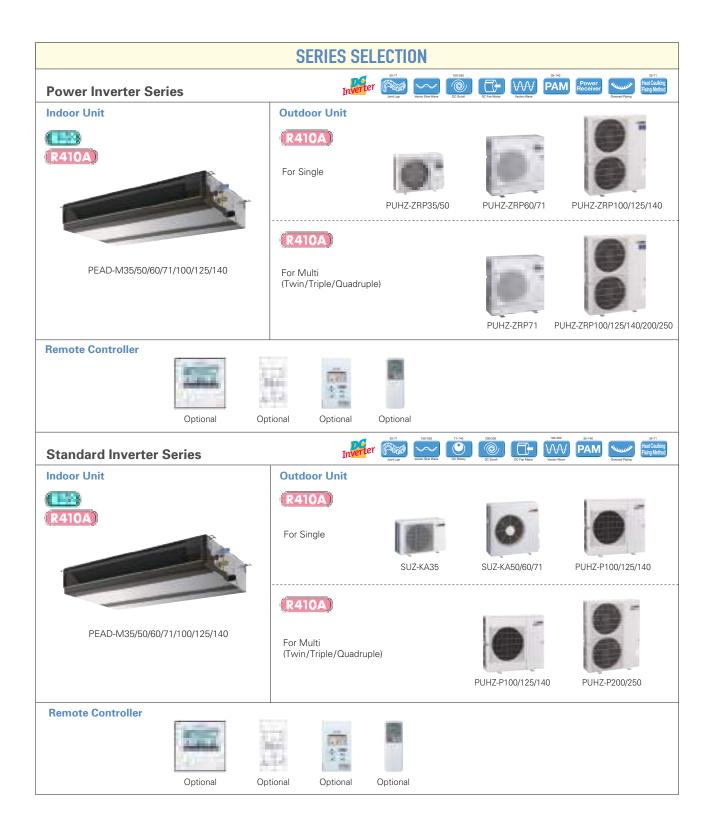
Туре							lı lı	verter Heat P	ump				
Indoor Ur	nit			PEAD- M35JA(L)	PEAD- M50JA(L)	PEAD- M60JA(L)	PEAD- M71JA(L)	PEAD-M	100JA(L)	PEAD-M	125JA(L)	PEAD-M	140JA(L)
Outdoor	Jnit			PUZ- ZM35VKA	PUZ- ZM50VKA	PUZ- ZM60VHA	PUZ- ZM71VHA	PUZ- ZM100VKA	PUZ- ZM100YKA	PUZ- ZM125VKA	PUZ- ZM125YKA	PUZ- ZM140VKA	PUZ- ZM140YKA
Refrigera								R3					
Power	Source							Outdoor po					
Supply	Outdoor (V/Phase	/Hz)					VKA • VH	A:230 / Single /	50, YKA:400 / 1	hree / 50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
-		Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.3	6.2 - 15.3
	Total Input	Rated	kW	0.837(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(3.611)
	EER*4	•		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*4,*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++)	-	-	-	-
Heating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
(Average		Min - Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Season)	Total Input	Rated	kW	0.917	1.312	1.616	1.932	2.598	2.598	3.349	3.349	3.970	3.970
	COP*4			4.47	4.57	4.33	4.14	4.31	4.31	4.18	4.18	4.03	4.03
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	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*4,*5			3.9	4.3	4.0	3.9	4.1	4.1	-	-	-	-
		Energy Efficiency Class		A	A+	A+	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
Indoor Unit	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
Unit	Operating Current		A	1.07	1.39	1.62	1.97	2.65	2.65	2.76	2.76	2.78	2.78
	Dimensions <panel></panel>	H × W × D	mm		0-732	250-11	30 (29)	00 (00)	250-14	40 (39)	40.(00)		44 (43)
	Weight <panel></panel>	1.1.12	kg m³/min	26 (25)	27 (26)	30 (29)		39 (38)	39(38)		40 (39)	44 (43) 32.0-39.0-46.0	
	Air Volume [Lo-Mic External Static Pre		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	35 / 50 / 70		29.5-35.5-42.0	29.5-35.5-42.0	32.0-39.0-40.0	32.0-39.0-40.0
	Sound Level (SPL)		dB(A)	23 - 27 - 30	26 - 31 - 35	25 - 29 - 33	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	33 - 36 - 40	34 - 38 - 43	34 - 38 - 43
	Sound Level (SPL)		dB(A)	54	59	20-29-33	20-30-34	62	62	66	66	67	67
Outdoor	Dimensions	H×W×D	mm	630 - 80		943 - 950 -		02	02	1338 - 1050		07	07
Unit	Weight		ka	46	46	70	70	116	123	116	125	118	131
0	Air Volume	Cooling	m <sup>3</sup> /min	40	40	55	55	110	110	120	120	120	120
	All Volume	Heating	m <sup>3</sup> /min	45	45	55	55	110	110	120	120	120	120
	Sound Level (SPL)	Cooling	dB(A)	43	43	47	47	49	49	50	50	50	50
	Sound Level (SFL)	Heating	dB(A)	44	44	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	(	Â	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	°Č	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21
,		Linearing		11	11 1 1 4	20121	20 121	20121	20 121	20 121	1 20 121	20121	20121

Interating I Control Interaction I Contro

	Demand Control Optional		Aco Auto Restart Low Temp	Silent Si	Group Control	
PEAD-M SERIES STANDARD INVERTER	Wiring Reuse	Drain Lift Up	e ction Set Failure Recal			

Туре							lı lı	nverter Heat P	ump				
Indoor Ur	iit			PEAD- M35JA(L)	PEAD- M50JA(L)	PEAD- M60JA(L)	PEAD- M71JA(L)	PEAD-M			125JA(L)	PEAD-M	
Outdoor l	Jnit			SUZ- M35VA	SUZ- M50VA	SUZ- M60VA	SUZ- M71VA	PUZ- M100VKA	PUZ- M100YKA	PUZ- M125VKA	PUZ- M125YKA	PUZ- M140VKA	PUZ- ZM140YKA
Refrigera	nt							R3	2*1	-			
	Source							Outdoor po	wer supply				
	Outdoor (V/Phase,	/Hz)					VA • VKA	: 230 / Single / §		hree / 50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4
cooming		Min - Max	kW	0.8 - 3.9	1.7 - 5.6	1.6 - 6.3	2.2 - 8.1	4.0 - 10.6	4.0 - 10.6	6.0 - 13.0	6.0 - 13.0	6.1 - 14.1	6.1 - 14.1
	Total Input	Rated	kW	0.92(0.90)	1.35(1.33)	1.69(1.67)	2.02(2.00)	2.87(2.85)	2.87(2.85)	4.01(3.99)	4.01(3.99)	4.76	4.76
	EER*4			3.90(4.00)	3.70(3.75)	3.60(3.65)	3.50(3.55)	3.30(3.33)	3.30(3.33)	3.01(3.03)	3.01(3.03)	2.81	2.81
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4
	Annual Electricity	Consumption*2	kWh/a	217(199)	287(271)	353(335)	428(411)	613(598)	613(598)	-	-	-	-
	SEER*4,*5			5.8(6.3)	6.1(6.4)	6.0(6.3)	5.8(6.0)	5.4(5.5)	5.4(5.5)	-	-	-	-
		Energy Efficiency Class		A+ (A++)	A++(A++)	A+(A++)	A+ (A+)	A (A)	A (A)	-	-	-	-
Heating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	13.5	13.5	15.0	15.0
(Average		Min - Max	kW	1.1 - 5.0	1.5 - 7.2	1.6 - 8.0	2.0 - 10.2	2.8 - 12.5	2.8 - 12.5	4.1 - 15.0	4.1 - 15.0	4.2 - 15.8	4.2 - 15.8
Season)	Total Input	Rated	kW	1.02	1.46	1.84	2.15	2.94	2.94	3.73	3.73	4.15	4.15
	COP*4			4.00	4.10	3.80	3.71	3.80	3.80	3.61	3.61	3.61	3.61
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	Design Load		kW	2.6	4.3	4.6	5.8	8.0	8.0	8.5	8.5	9.4	9.4
	Declared Capacity	at reference design temperature	kW	2.3(-10°C)	3.8 (-10°C)	4.1(-10°C)	5.2(-10°C)	6.0(-10°C)	6.0(-10°C)	8.5(-10°C)	8.5(-10°C)	9.4(-10°C)	9.4(-10°C)
		at bivalent temperature	kW	2.3(-7°C)	3.8(-7°C)	4.1(-7°C)	5.2(-7°C)	7.0(-7°C)	7.0(–7°C)	8.5(-10°C)	8.5(-10°C)	9.4(-10°C)	9.4(-10°C)
		at operation limit temperature	kW	2.3(-10°C)	3.8(-10°C)	4.1(-10°C)	5.2(-10°C)	4.5(-15°C)	4.5(-15°C)	6.0(-15°C)	6.0(-15°C)	7.0(-15°C)	7.0(-15°C)
	Back Up Heating C		kW	0.5	0.5	0.5	0.6	2.0	2.0	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	931	1430	1594	2080	2795	2795	-	-	-	-
	SCOP*4,*5	= = = = = = = = = = = = = = = = = = = =		3.9	4.2	4.0	3.9	4.0	4.0	-	-	-	-
0 (		Energy Efficiency Class		A	A+	A+	A	A+ 22.7	A+	-	-	-	-
	g Current (max)		A kW	9.6	14.9	16.4	16.8		14.2	29.3	14.3	32.8	14.3
	Input [Cooling / Hea Operating Current		A	1.07	1.39	1.62	0.17(0.15)/0.15	2.65	2.65	2.76	2.76	2.78	2.78
	Dimensions <panel></panel>	H × W × D	mm		0-732		00-732	2.00	2.05		2.70		00-732
	Weight <panel></panel>	H × W × D	kg	26(25)	27 (26)	30 (29)	30 (29)	39 (38)	39 (38)	40 (39)	40 (39)	44 (43)	44 (43)
	Air Volume (Lo-Mic	4 110	m <sup>3</sup> /min				17.5-21.0-25.0						
	External Static Pre		Pa	10.0-12.0-14.0	12.0-14.0-17.0	14.5-16.0-21.0	17.5-21.0-25.0		/ 100 / 150	29.0-30.0-42.0	29.0-30.0-42.0	32.0-33.0-40.0	32.0-39.0-40.0
	Sound Level (SPL)		dB(A)	23 - 27 - 30	26 - 31 - 35	25 - 29 - 33	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	33 - 36 - 40	34 - 38 - 43	34 - 38 - 43
	Sound Level (SPL)		dB(A)	54	59	55	58	62	62	66	66	67	67
	Dimensions	H×W×D	mm		714 - 800 - 285	880 - 84		981 - 1050 - 330	02	981 - 1050		07	07
	Weight		kg	35	41	54	55	76	78	84	85	84	85
	Air Volume	Cooling	m <sup>3</sup> /min	34.3	45.8	50.1	50.1	79.0	79.0	86.0	86.0	86.0	86.0
		Heating	m <sup>3</sup> /min	32.7	43.7	50.1	50.1	79.0	79.0	92.0	92.0	92.0	92.0
	Sound Level (SPL)	Cooling	dB(A)	48	48	49	49	51	51	54	54	55	55
		Heating	dB(A)	48	49	51	51	54	54	56	56	57	57
	Sound Level (PWL)	Cooling	dB(A)	59	64	65	66	70	70	72	72	73	73
	<b>Operating Current</b>	(max)	A	8.5	13.5	14.8	14.8	20.0	11.5	26.5	11.5	30.0	11.5
	Breaker Size		A	16	20	20	20	32	16	32	16	40	16
	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
Piping	Max. Length	Out-In	m	20	30	30	30	55	55	65	65	65	65
	Max. Height	Out-In	m	12	30	30	30	30	30	30	30	30	30
	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 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	–15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21
*1 Refrige	rant leakage contribut	es to climate change. Refrig	erant w	th lower global	warming potenti	ial (GWP) would	contribute less t	o alobal warmin	a than a refrigera	ant with higher (	GWP. if leaked to	the atmosphere	. This appliance

\*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 CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant riccuit youself or disassemble the product youself 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 in protection guide is required where ambient temperature is lower than -6°C. \*4 EER/COP and SEER/SCOP for M35-71 are measured at ESP 35Pa, for M100 at ESP 37Pa, for M125/140 at ESP 50Pa. \*5 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.



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

										Outd	oor Ui	nit Cap	pacity								
Indoor	Unit Combination				Fo	or Sing	jle						For	Twin			Fo	or Trip	le	For Qua	adruple
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	wer Inverter (PUHZ-ZRP)		50x1	60x1	71x1	100x1	125x1	140x1	-	-	35x2	50x2	60×2	71x2	100x2	125x2	50x3	60×3	71x3	50x4	60x4
	Distribution Pipe	-	_	-	-	-	-	-	-	-	Ν	/SDD-	50TR-	E	MSDD-	50WR-E	MS	DT-111	IR-E	MSDF-1	1111R-E
Standa	ard Inverter (PUHZ-P&SUZ)	35x1	50x1	60x1	71x1	100x1	125x1	140x1	-	-	-	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	MSI	DD-50	ΓR-E	MSDD-	50WR-E	MS	DT-111	IR-E	MSDF-1	1111R-E

PEAD-M SERIES	Demand Control Optional	Long Life	Check!	<b>S</b> AUTO		Çi≑O Aco	<b>4</b> Auto Restart	Low Temp Cooling	Silent	Ampere Limit	Rotation Back-up Optional	Optional	Group Control	M-NET connection Optional	Wi-Fi )) Interface	СОМРО
PCAD-MI SERIES POWER INVERTER	Cleaning-tree,	Wiring Reuse	Drain Lift Up	Pump Down	Flare connection	Self Diagnosis	Failure Recal									

Туре							lı lı	verter Heat P	ump				
Indoor Ur	hit			PEAD- M35JA(L)	PEAD- M50JA(L)	PEAD- M60JA(L)	PEAD- M71JA(L)	PEAD-M	100JA(L)	PEAD-M	125JA(L)	PEAD-M	140JA(L)
Outdoor I	Jnit			PUHZ-	PUHZ-	PUHZ-	PUHZ-	PUHZ-	PUHZ-	PUHZ-	PUHZ-	PUHZ-	PUHZ-
				ZRP35VKA2	ZRP50VKA2	ZRP60VHA2	ZRP71VHA2		ZRP100YKA3	ZRP125VKA3	ZRP125YKA3	ZRP140VKA3	ZRP140YKA3
Refrigera								R41					
Power	Source								wer supply				
Supply	Outdoor (V/Phase								50, YKA:400 / T				
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.3	6.2 - 15.3
	Total Input	Rated	kW	0.89(0.87)	1.44(1.42)	1.65(1.63)	2.01 (1.99)	2.43(2.41)	2.43(2.41)	3.86 (3.83)	3.86(3.83)	4.32 (4.29)	4.32 (4.29)
	EER*4			-	-	-	-	-	-	3.24 (3.26)	3.24 (3.26)	3.10(3.12)	3.10(3.12)
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	221(205)	304(288)	355(340)	428(411)	554(543)	565(554)	-	-	-	-
	SEER*4,*5			5.7(6.1)	5.7(6.0)	6.0(6.2)	5.8(6.0)	6.0(6.1)	5.8(6.0)	-	-	-	-
		Energy Efficiency Class		A+(A++)	A+(A+)	A+ (A++)	A+ (A+)	A+ (A++)	A+(A+)	-	-	-	-
Heating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
(Average		Min - Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Season)	Total Input	Rated	kW	0.95	1.50	1.79	2.03	2.60	2.60	3.51	3.51	4.07	4.07
	COP*4			-	-	-	-	-	-	3.99	3.99	3.93	3.93
		EEL Rank	1	-	-	-	-	-	-	-	-	-	-
	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		kW	0	0	0	0	0	0	-	-	-	-
	Annual Electricity SCOP*4.*5	Consumption*2	kWh/a	839	1231	1513	1762	2627	2627	-	-	-	-
	SCOP	Energy Efficiency Class		4.0 A+	4.3 A+	4.1 A+	3.9 A	4.2 A+	4.2 A+	-	-	-	-
Onesetin	g Current (max)	Energy Eniciency class	A	14.1	14.4	20.6	21.0	29.2	10.7	29.3	12.3	- 30.8	- 15.8
Indoor	Input [Cooling / He	-ti	kW			0.12(0.10)/0.10						0.39(0.37)/0.37	
Unit	Operating Current		A	1.07	1.39	1.62	1.97	2.65	2.65	2.76	2.76	2.78	2.78
onit	Dimensions <panel></panel>		mm		0-732		00-732	2.05		00-732	2.70		00-732
	Weight <panel></panel>		ka	26(25)	27(26)	30(29)	30(29)	39(38)	39(38)	40(39)	40(39)	44(43)	44(43)
	Air Volume [Lo-Mi	d Hil	m <sup>3</sup> /min			14.5-18.0-21.0	17.5.21.0.25.0	24 0 29 0 24 0	24 0 29 0 24 0	29.5.25.5.42.0	205 255 42.0	32.0-39.0-46.0	
	External Static Pro		Pa	10.0-12.0-14.0	12.0-14.3-17.0	14.5-10.0-21.0	17.5-21.0-25.0		/ 100 / 150	20.0-00.0-42.0	20.0-00.0-42.0	32.0-33.0-40.0	132.0-33.0-40.0
	Sound Level (SPL		dB(A)	23 - 27 - 30	26 - 31 - 35	25 - 29 - 33	26 - 30 - 34	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	630 - 80		943 - 950 -		02	02	1338 - 1050		07	0,
Unit	Weight		ka	43	46	70	70	116	123	116	125	118	131
	Air Volume	Cooling	m <sup>3</sup> /min	45	45	55	55	110	110	120	120	120	120
		Heating	m <sup>3</sup> /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		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	50	50	75	75	75	75	75	75
	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Guarante	ed Operating Range	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
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	Demand	<b>-</b>	<b>-</b>	A CALITO		Ω⇒Ô	55	Low Temp	PUHZ	Rotation		Group Control	Group	M-NET	Wi-Fi ))	COMPO
PEAD-M SERIES	Optional	Long Life PUHZ	Check!	PUHZ		ACO	Auto Restart	Cooling	Silent C	Back-up Optional	Optional	Control	Optional	Connection	Unterface Optional	
STANDARD INVERTER	Cleaning-free,	Wiring Reuse	Drain Lift Up	Pump Down	Flare connection	Self Diagnosis	Failure Recall									

Туре							l Ir	verter Heat P	ump				
Indoor U	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)
Outdoor				SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6	SUZ-KA71VA6	PUHZ- P100VKA	PUHZ- P100YKA	PUHZ- P125VKA	PUHZ- P125YKA	PUHZ- P140VKA	PUHZ- P140YKA
Refrigera	nt							R41	)A*1				
Power	Source							Outdoor po	wer supply				
Supply	Outdoor (V/Phase	/Hz)					VA • VKA	A:230 / Single / 5	50, YKA:400 / Th	ree / 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
ocoming		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			-	-	-	-	3.17	3.17	2.91 (2.92)	2.91 (2.92)	2.61 (2.62)	2.61 (2.62)
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	Design Load		kW	3.6	4.9	5.7	7.1	9.4	9.4	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	222 (210)	302 (290)	337 (325)	408 (396)	644 (627)	644 (627)	-	-	-	-
	SEER*4,*5			5.6 (6.0)	5.6 (5.9)	5.9 (6.1)	6.1 (6.2)	5.1 (5.2)	5.1 (5.2)	-	-	-	-
		Energy Efficiency Class		A+ (A+)	A+ (A+)	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)	-	-	-	-
	Back Up Heating C		kW	0.3	0.5	0.5	0.7	2.0	2.0	-	-	_	-
	Annual Electricity		kWh/a	980	1466	1569	2153	2793	2793	-	-	-	-
	SCOP*4,*5			4.0	4.2	4.0	3.9	4.0	4.0	-	-	-	-
		Energy Efficiency Class		A <sup>+</sup>	A+	A+	A	A+	A+	-	-	-	-
Operatin	g Current (max)		A	9.3	13.4	15.6	18.1	22.7	14.2	29.3	14.3	32.8	14.3
Indoor	Input [Cooling / He	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)/0.3
Unit	<b>Operating Current</b>		A	1.07	1.39	1.62	1.97	2.65	2.65	2.76	2.76	2.78	2.78
	Dimensions <panel></panel>	H × W × D	mm	250-9	20. 700	050.44	100-732		050 44				00-732
	Weight <panel></panel>			250-9	JU-732	250-11	100-732		250-14	00-732		250-160	
			kg	26 (25)	27 (26)	30 (29)	30 (29)	39 (38)	39 (38)	00-732 40 (39)	40 (39)	250-160	44 (43)
	Air Volume [Lo-Mid	I-Hi]		26 (25)		30 (29)			39 (38)	40 (39)		44 (43)	44 (43)
	Air Volume [Lo-Mic External Static Pre		kg m³/min Pa	26 (25) 10.0 - 12.0 - 14.0	27 (26) 12.0-14.5-17.0	30 (29) 14.5-18.0-21.0	30 (29) 17.5-21.0-25.0 35 /	24.0-29.0-34.0	39 (38) 24.0-29.0-34.0 150	40 (39) 29.5-35.5-42.0	29.5-35.5-42.0	44 (43) 32.0-39.0-46.0	44 (43) 32.0-39.0-46.0
		ssure	kg m³/min Pa dB(A)	26 (25)	27 (26)	30 (29)	30 (29) 17.5-21.0-25.0	24.0-29.0-34.0	39 (38) 24.0-29.0-34.0	40 (39)		44 (43)	44 (43) 32.0-39.0-46.0
	External Static Pre Sound Level (SPL) Sound Level (PWL	ssure [Lo-Mid-Hi]	kg m³/min Pa	26 (25) 10.0 - 12.0 - 14.0 23 - 27 - 30 54	27 (26) 12.0-14.5-17.0	30 (29) 14.5-18.0-21.0 25 - 29 - 33 55	30 (29) 17.5-21.0-25.0 35 / 26 - 30 - 34 58	24.0-29.0-34.0	39 (38) 24.0-29.0-34.0 150	40 (39) 29.5-35.5-42.0 33 - 36 - 40 66	29.5-35.5-42.0 33 - 36 - 40 66	44 (43) 32.0-39.0-46.0	44 (43) 32.0-39.0-46.0
	External Static Pre Sound Level (SPL) Sound Level (PWL Dimensions	ssure [Lo-Mid-Hi]	kg m³/min Pa dB(A) dB(A) mm	26 (25) 10.0 - 12.0 - 14.0 23 - 27 - 30 54 550 - 800 - 285	27 (26) 12.0-14.5-17.0 26 - 31 - 35 59	30 (29) 14.5-18.0-21.0 25 - 29 - 33 55 880-840-330	30 (29) 17.5-21.0-25.0 35 / 26 - 30 - 34 58	24.0-29.0-34.0 / 50 / 70 / 100 / 29 - 34 - 38 62	39 (38) 24.0-29.0-34.0 150 29 - 34 - 38 62	40 (39) 29.5-35.5-42.0 33 - 36 - 40 66 981-10	29.5-35.5-42.0 33 - 36 - 40 66 50-330	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67	44 (43) 32.0-39.0-46.1 34 - 38 - 43 67
Outdoor Unit	External Static Pre Sound Level (SPL) Sound Level (PWL Dimensions Weight	ILo-Mid-Hi]	kg m <sup>3</sup> /min Pa dB(A) dB(A) mm kg	26 (25) 10.0 - 12.0 - 14.0 23 - 27 - 30 54 550-800-285 35	27 (26) 12.0-14.5-17.0 26 - 31 - 35 59 54	30 (29) 14.5-18.0-21.0 25 - 29 - 33 55 880-840-330 50	30 (29) 17.5-21.0-25.0 35 / 26 - 30 - 34 58 53	24.0-29.0-34.0 / 50 / 70 / 100 / 29 - 34 - 38 62 76	39 (38) 24.0-29.0-34.0 150 29 - 34 - 38 62 78	40 (39) 29.5-35.5-42.0 33 - 36 - 40 66 981-10 84	29.5-35.5-42.0 33 - 36 - 40 66 50-330 85	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 84	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 85
	External Static Pre Sound Level (SPL) Sound Level (PWL Dimensions	ssure [Lo-Mid-Hi]   H × W × D   Cooling	kg m³/min Pa dB(A) dB(A) mm kg m³/min	26 (25) 10.0 - 12.0 - 14.0 23 - 27 - 30 54 550 - 800 - 285 35 36.3	27 (26) 12.0-14.5-17.0 26 - 31 - 35 59 54 44.6	30 (29) 14.5-18.0-21.0 25 - 29 - 33 55 880-840-330 50 40.9	30 (29) 17.5-21.0-25.0 35 / 26 - 30 - 34 58 53 50.1	24.0-29.0-34.0 / 50 / 70 / 100 / 29 - 34 - 38 62 76 79	39 (38) 24.0-29.0-34.0 150 29 - 34 - 38 62 78 79	40 (39) 29.5-35.5-42.0 33 - 36 - 40 66 981-10 84 86	29.5-35.5-42.0 33 - 36 - 40 66 50-330 85 86	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 84 86	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 85 85 86
	External Static Pre Sound Level (SPL) Sound Level (PWL Dimensions Weight Air Volume	ILo-Mid-Hi] H × W × D Cooling Heating	kg m <sup>3</sup> /min Pa dB(A) dB(A) mm kg m <sup>3</sup> /min m <sup>3</sup> /min	26 (25) 10.0 - 12.0 - 14.0 23 - 27 - 30 54 550-800-285 35 36.3 34.8	27 (26) 12.0-14.5-17.0 26 - 31 - 35 59 54 44.6 44.6	30 (29) 14.5-18.0-21.0 25 - 29 - 33 55 880-840-330 50 40.9 49.2	30 (29) 17.5-21.0-25.0 35 / 26 - 30 - 34 58 53 50.1 48.2	24.0-29.0-34.0 / 50 / 70 / 100 / 29 - 34 - 38 62 76 79 79 79	39 (38) 24.0-29.0-34.0 150 29 - 34 - 38 62 78 79 79 79	40 (39) 29.5-35.5-42.0 33 - 36 - 40 66 981-10 84 86 92	29.5-35.5-42.0 33 - 36 - 40 66 50-330 85 86 92	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 84 86 92	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 85 86 92
	External Static Pre Sound Level (SPL) Sound Level (PWL Dimensions Weight	ssure [Lo-Mid-Hi]   H × W × D   Cooling	kg m <sup>3</sup> /min Pa dB(A) dB(A) mm kg m <sup>3</sup> /min m <sup>3</sup> /min dB(A)	26 (25) 10.0 - 12.0 - 14.0 23 - 27 - 30 54 550-800-285 35 36.3 34.8 49	27 (26) 12.0-14.5-17.0 26 - 31 - 35 59 54 44.6 44.6 52	30 (29) 14.5-18.0-21.0 25 - 29 - 33 55 880-840-330 50 40.9 49.2 55	30 (29) 17.5-21.0-25.0 35 26 - 30 - 34 58 53 50.1 48.2 55	24.0-29.0-34.0 / 50 / 70 / 100 / 29 - 34 - 38 62 76 79 79 51	39 (38) 24.0-29.0-34.0 150 29 - 34 - 38 62 78 79 79 51	40 (39) 29.5-35.5-42.0 33 - 36 - 40 66 981-10: 84 86 92 54	29.5-35.5-42.0 33 - 36 - 40 66 50-330 85 86 92 54	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 84 86 92 56	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 85 86 92 56
	External Static Pre Sound Level (SPL) Sound Level (PWL Dimensions Weight Air Volume Sound Level (SPL)	ILo-Mid-Hi]  H × W × D Cooling Heating Cooling Heating	kg m <sup>3</sup> /min Pa dB(A) dB(A) mm kg m <sup>3</sup> /min m <sup>3</sup> /min dB(A) dB(A)	26 (25) 10.0 - 12.0 - 14.0 23 - 27 - 30 54 550-800-285 35 36.3 34.8 49 50	27 (26) 12.0-14.5-17.0 26 - 31 - 35 59 54 44.6 44.6 52 52	30 (29) 14.5-18.0-21.0 25 - 29 - 33 55 880-840-330 50 40.9 49.2 55 55	30 (29) 17.5-21.0-25.0 35 / 26 - 30 - 34 58 53 50.1 48.2 55 55	24.0-29.0-34.0 / 50 / 70 / 100 / 29 - 34 - 38 62 76 79 79 51 54	39 (38) 24.0-29.0-34.0 150 29 - 34 - 38 62 78 79 79 79 51 51 54	40 (39) 29.5-35.5-42.0 33 - 36 - 40 66 981-10: 84 86 92 54 56	29.5-35.5-42.0 33 - 36 - 40 66 50-330 85 86 92 54 56	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 84 86 92 56 57	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 85 86 92 56 57
	External Static Pre Sound Level (SPL) Sound Level (PWL Dimensions Weight Air Volume Sound Level (SPL) Sound Level (PWL)	ssure [Lo-Mid-Hi] ] [H × W × D [Cooling Heating Cooling Heating Cooling	kg m <sup>3</sup> /min Pa dB(A) dB(A) mm kg m <sup>3</sup> /min dB(A) dB(A) dB(A)	26 (25) 10.0 - 12.0 - 14.0 23 - 27 - 30 54 550-800-285 35 36.3 34.8 49 50 62	27 (26) 12.0-14.5-17.0 26 - 31 - 35 59 54 44.6 44.6 52 52 65	30 (29) 14.5-18.0-21.0 25 - 29 - 33 55 880-840-330 50 40.9 49.2 55 55 65	30 (29) 17.5-21.0-25.0 35 / 26 - 30 - 34 58 53 50.1 48.2 55 55 69	24.0-29.0-34.0 / 50 / 70 / 100 / 29 - 34 - 38 62 76 79 79 51 54 70	39 (38) 24.0-29.0-34.0 150 29 - 34 - 38 62 78 79 79 79 51 54 70	40 (39) 29.5-35.5-42.0 33 - 36 - 40 66 981-10 84 86 92 54 56 72	29.5-35.5-42.0 33 - 36 - 40 66 50-330 85 86 92 54 56 72	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 84 86 92 56 57 75	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 85 86 92 56 57 75
	External Static Pre Sound Level (PWL Dimensions Weight Air Volume Sound Level (SPL) Sound Level (PWL) Operating Current	ssure [Lo-Mid-Hi] ] [H × W × D [Cooling Heating Cooling Heating Cooling	kg m³/min Pa dB(A) dB(A) mm kg m³/min dB(A) dB(A) dB(A) A	26 (25) 10.0 - 12.0 - 14.0 23 - 27 - 30 54 550 - 800 - 285 35 36.3 34.8 49 50 62 8.2	27 (26) 12.0-14.5-17.0 26 - 31 - 35 59 54 44.6 44.6 52 52 65 12.0	30 (29) 14.5-18.0-21.0 25 - 29 - 33 55 880-840-330 50 40.9 49.2 55 55 65 65 14.0	30 (29) 17.5-21.0-25.0 35, 26 - 30 - 34 58 50.1 48.2 55 55 69 16.1	24.0-29.0-34.0 / 50 / 70 / 100 / 29 - 34 - 38 62 76 79 79 51 54 70 20.0	39 (38) 24.0-29.0-34.0 150 29 - 34 - 38 62 78 79 79 51 51 54 70 11.5	40 (39) 29.5-35.5-42.0 33 - 36 - 40 66 981-10: 84 86 92 54 56 72 26.5	29.5-35.5-42.0 33 - 36 - 40 66 50-330 85 86 92 54 56 72 11.5	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 84 86 92 56 57 75 30.0	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 85 86 92 56 57 75 11.5
Unit	External Static Pre Sound Level (SPL) Sound Level (PWL) Dimensions Weight Air Volume Sound Level (SPL) Operating Current Breaker Size	ssure [Lo-Mid-Hi]   H × W × D Cooling Heating Cooling Heating Cooling (max)	kg m³/min Pa dB(A) dB(A) mm m³/min m³/min dB(A) dB(A) dB(A) dB(A) A	26 (25) 10.0 - 12.0 - 14.0 23 - 27 - 30 54 550-800-285 35 36.3 34.8 49 50 62 8.2 10	27 (26) 12.0-14.5-17.0 26 - 31 - 35 59 54 44.6 52 52 52 65 12.0 20	30 (29) 14.5-18.0-21.0 25 - 29 - 33 55 880-840-330 50 40.9 40.2 55 55 55 65 65 14.0 20	30 (29) 17.5-21.0-25.0 35, 26 - 30 - 34 58 53 50.1 48.2 55 55 69 16.1 20	$\begin{array}{c} 24.0-29.0-34.0\\ 50/70/100/\\ 29-34-38\\ 62\\ \hline \\ 76\\ 79\\ 51\\ 54\\ 70\\ 20.0\\ 32\\ \end{array}$	39 (38) 24.0-29.0-34.0 150 29 - 34 - 38 62 78 79 79 51 54 54 70 11.5 16	40 (39) 29.5-35.5-42.0 33 - 36 - 40 66 981-10: 84 86 92 54 56 72 26.5 32	29.5-35.5-42.0 33 - 36 - 40 66 50-330 85 86 92 54 56 72 11.5 16	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 84 86 92 56 57 75 30.0 40	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 85 86 92 56 57 75 11.5 16
Unit Ext.	External Static Pre Sound Level (SPL) Sound Level (PWL Dimensions Weight Air Volume Sound Level (SPL) Sound Level (SPL) Operating Current Breaker Size Diameter	ssure [Lo-Mid-Hi] H × W × D Cooling Heating Cooling Cooling (max) Liquid / Gas	kg m³/min Pa dB(A) dB(A) mm m³/min m³/min dB(A) dB(A) dB(A) dB(A) A A A mm	26 (25) 10.0 - 12.0 - 14.0 23 - 27 - 30 54 550 - 800 - 285 36.3 34.8 49 50 62 8.2 10 6.35 / 9.52	27 (26) 12.0-14.5-17.0 26 - 31 - 35 59 54 44.6 44.6 52 65 12.0 20 6.35 / 12.7	30 (29) 14.5-18.0-21.0 25 - 29 - 33 55 880-840-330 40.9 49.2 55 55 65 65 14.0 20 6.35 / 15.88	30 (29) 17.5-21.0-25.0 35, 26 - 30 - 34 58 53 50.1 48.2 55 55 55 69 16.1 20 9.52 / 15.88	24.0-29.0-34.0 50 / 70 / 100 / 29 - 34 - 38 62 76 79 79 51 54 70 20.0 32 9.52 / 15.88	39 (38) 24.0-29.0-34.0 150 29 - 34 - 38 62 78 79 79 51 51 54 70 11.5 54 70 16 9.52/15.88	40 (39) 29.5-35.5-42.0 33 - 36 - 40 66 981-10: 84 86 92 54 56 72 26.5 72 26.5 32 9.52/15.88	29.5-35.5-42.0 33 - 36 - 40 66 50-330 85 86 92 54 56 72 11.5 16 9.52/15.88	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 84 86 92 56 57 75 30.0 40 9.52 / 15.88	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 85 86 92 56 57 75 11.5 9.52/15.88
Unit	External Statie Pre Sound Level (SPL) Sound Level (PWL) Dimensions Weight Air Volume Sound Level (SPL) Sound Level (SPL) Sound Level (PWL) Operating Current Breaker Size Diameter Max. Length	ssure [Lo-Mid-Hi] H × W × D Cooling Heating Cooling Heating Cooling (max) Liquid / Gas Out-In	kg m³/min Pa dB(A) dB(A) mm kg m³/min dB(A) dB(A) dB(A) dB(A) A A mm m	26 (25) 10.0 - 12.0 - 14.0 23 - 27 - 30 54 550 - 800 - 285 36.3 34.8 49 50 62 8.2 10 6.35 / 9.52 20	27 (26) 12.0-14.5-17.0 26-31-35 59 54 44.6 44.6 52 52 65 12.0 20 6.35 / 12.7 30	30 (29) 14.5-18.0-21.0 25-29-33 55 880-840-330 50 40.9 49.2 55 65 14.0 20 6.35/15.88 30	30 (29) 17.5-21.0-25.0 35, 26 - 30 - 34 58 50.1 48.2 55 69 16.1 20 9.52/15.88 30	24.0-29.0-34.0 50 / 70 / 100 / 29 - 34 - 38 62 76 79 79 51 54 70 20.0 32 9.52 / 15.88 50	39 (38) 24.0-29.0-34.0 150 29 - 34 - 38 62 79 79 51 54 70 111.5 16 9.52/15.88 50	40 (39) 29.5-35.5-42.0 33 - 36 - 40 981-10 84 86 92 54 56 72 26.5 32 9.52/15.88 50	29.5-35.5-42.0 33-36-40 66 50-330 85 86 92 54 56 72 11.5 16 9.52/15.88 50	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 84 86 92 56 57 75 30.0 40 9.52 / 15.88 50	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 85 86 92 56 57 75 11.5 16 9.52/15.88 50
Unit Ext. Piping	External Static Pre Sound Level (SPL) Sound Level (PWL Dimensions Weight Air Volume Sound Level (SPL) Sound Level (SPL) Operating Current Breaker Size Diameter Max. Length Max. Height	ssure [Lo-Mid-Hi]   H × W × D Cooling Heating Cooling Heating Cooling (max) Liquid / Gas Out-In Out-In	kg m³/min Pa dB(A) dB(A) mm kg m³/min dB(A) dB(A) dB(A) dB(A) dB(A) A A A mm m m m	26 (25) 10.0 - 12.0 - 14.0 23 - 27 - 300 54 550 - 800 - 285 36.3 34.8 49 50 62 8.2 10 6.35 / 9.52 20 12	27 (26) 12.0-14.5-17.0 26-31-35 59 54 44.6 44.6 52 65 12.0 20 6.35 / 12.7 30 30	30 (29) 14.5-18.0-21.0 25-29-33 55 880-840-330 50 40.9 49.2 55 65 14.0 20 6.35/15.88 30 30	30 (29) 17.5-21.0-25.0 36, 26-30-34 58 53 50.1 48.2 55 69 16.1 20 9.52/15.88 30 30	24.0-29.0-34.0 50/70/100/ 29-34-38 62 76 79 51 51 54 70 20.0 32 9.52/15.88 50 30	39 (38) 24.0-29.0-34.0 150 29 - 34 - 38 62 78 79 79 51 54 70 111.5 16 9.52 / 15.88 50 30	40 (39) 29.5-35.5-42.0 33-36-40 66 981-10 84 86 92 54 56 72 26.5 32 9.52/15.88 50 30	29.5-35.5-42.0 33 - 36 - 40 66 50-330 85 86 92 54 56 72 11.5 16 9.52 / 15.88 50 30	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 84 86 92 56 57 75 30.0 40 9.52 / 15.88 50 30	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 85 86 92 56 57 75 11.5 16 9.52 / 15.88 50 30
Unit Ext. Piping	External Statie Pre Sound Level (SPL) Sound Level (PWL Dimensions Weight Air Volume Sound Level (SPL) Sound Level (SPL) Operating Current Breaker Size Diameter Max. Length Max. Height ed Operating Range	ssure [Lo-Mid-Hi] H × W × D Cooling Heating Cooling Heating Cooling (max) Liquid / Gas Out-In	kg m³/min Pa dB(A) dB(A) mm kg m³/min dB(A) dB(A) dB(A) dB(A) A A mm m	26 (25) 10.0 - 12.0 - 14.0 23 - 27 - 30 54 550 - 800 - 285 36.3 34.8 49 50 62 8.2 10 6.35 / 9.52 20	27 (26) 12.0-14.5-17.0 26-31-35 59 54 44.6 44.6 52 52 65 12.0 20 6.35 / 12.7 30	30 (29) 14.5-18.0-21.0 25-29-33 55 880-840-330 50 40.9 49.2 55 65 14.0 20 6.35/15.88 30	30 (29) 17.5-21.0-25.0 35, 26 - 30 - 34 58 50.1 48.2 55 69 16.1 20 9.52/15.88 30	24.0-29.0-34.0 50 / 70 / 100 / 29 - 34 - 38 62 76 79 79 51 54 70 20.0 32 9.52 / 15.88 50	39 (38) 24.0-29.0-34.0 150 29 - 34 - 38 62 79 79 51 54 70 11.5 16 9.52/15.88 50	40 (39) 29.5-35.5-42.0 33 - 36 - 40 981-10 84 86 92 54 56 72 26.5 32 9.52/15.88 50	29.5-35.5-42.0 33-36-40 66 50-330 85 86 92 54 56 72 11.5 16 9.52/15.88 50	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 84 86 92 56 57 75 30.0 40 9.52 / 15.88 50	44 (43) 32.0-39.0-46.0 34 - 38 - 43 67 85 86 92 56 57 75 11.5 16 9.52/15.88 50

1 Concerning Concer

### PEA **SERIES**



The PEA Series is a large capacity ceiling-concealed type indoor units which are visually discreet blending into various environments. The new R32 refrigerant lineup realizes improved energy efficiency with a patented fan called a Turbo In Sirocco fan. A wider option of external static pressure up to 200Pa allows authentic ducted air-conditioning with an elegant interior layout.

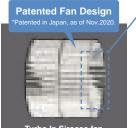
### Improved Energy Efficiency

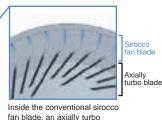
Introduction of new R32 refrigerant with newly designed fan reduces energy consumption and have resulted in higher energy savings for all capacity ranges.



### Low input with New Fan Design

The new PEA series applies a newly designed fan; a Turbo In Sirocco fan which realizes high efficiency with a lower power input. The new design is Mitsubishi Electric's patented technology with a combination of turbo fan inside the sirocco fan.





Turbo In Sirocco fan blade has been added.

Wide range of external static pressure allows flexible duct design

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

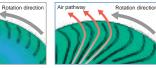
PEA-M200/250LA <60>/75/<100>/<150>/<200> Pa

The factory setting of external static pressure is shown without brackets (< >). Refer to "Fan characteristics curves" according to the external static pressure, in the DATA BOOK for the usable range of airflow rate.

Conventional Sirocco fan Pressure loss occurs below the sirocco fan blade.

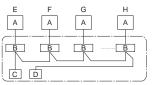
Air path

#### Turbo In Sirocco fan Improved air distribution with less pressure loss leads to lower power input.



### PAR-40MAA Group Control

The PAR-40MAA remote controller can control up to 16 systems as a group, and is ideal for supporting the integrated management of building air conditioners.



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



	Inverter	Vector Sine Wave	DC Serol	Rare Earth Magnet	DC Fan Motor	Vector-Wieve	Power Receiver	Growed Piping	Demand Control Optional	Çi≑Ö Aco	<b>4</b> Auto Restart	Low Temp Cooling	Silent	Ampere Limit
PEA-M SERIES POWER INVERTER	Optional	Group Control	Connection Optional	Wi-Fi )) Interface Optional	Cleaning-Iree,	Pump Down	Flare connection	Self Diagnosis	Failure Recall					

Туре				Inverter	Heat Pump
Indoor Ur	nit			PEA-M200LA	PEA-M250LA
Outdoor I	Unit			PUZ-ZM200YKA	PUZ-ZM250YKA
Refrigera	nt			R	32*1
	Source				ower supply
Supply	Outdoor (V/Phas	e/Hz)		400 / T	hree / 50
Cooling	Capacity	Rated	kW	19.0	22.0
		Min - Max	kW	9.2 - 22.4	9.9 - 27.0
	Total Input	Rated	kW	5.757	7.213
	EER			3.30	3.05
		EEL Rank		-	-
Heating	Capacity	Rated	kW	22.4	27.0
(Average		Min - Max	kW	7.1 - 25.0	7.3 - 31.0
Season)	Total Input	Rated	kW	6.400	7.941
	COP			3.50	3.40
		EEL Rank		-	-
Operatin	g Current (max)			25.7	25.9
Indoor	Input [Cooling / He	eating] Rated	kW	0.35 / 0.35	0.53 / 0.53
Unit	Operating Curren		A	3.1	3.4
	Dimensions	H x W x D	mm	470 - 13	370 - 1120
	Weight	·	kg		87
	Air Volume [Lo-M	lid-Hi]	m³/min	42 - 51 - 60 (60Pa - 150Pa) 42 - 51 - 55 (200Pa)	50 - 61 - 72 (60Pa - 100Pa) 45 - 55 - 65 (150Pa) 45 - 50 - 55 (200Pa
	External Static Pr	ressure	Pa		0) / (150) / (200)
	Sound Level (SPL		dB(A)	35 - 40 - 43	38 - 43 - 47
	Sound Level (PWI		dB(A)	63 - 64 - 64	67 - 67 - 68
	Dimensions	H x W x D	mm		0 - 330 (+40)
Unit	Weight		kg	137	138
	Air Volume	Cooling	m³/min	140	140
		Heating	m³/min	140	140
	Sound Level (SPL	.) Cooling	dB(A)	59	59
		Heating	dB(A)	62	62
	Sound Level (PWL		dB(A)	77	77
	Operating Curren	nt (max)	A	22.5	22.5
	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
	ed Operating Range	-	°C	-15 ~ +46	-15 ~ +46
[Outdoor]		Heating	°C	-20 ~ +21	-20 ~ +21

\*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or diassemble the product yourself and always ask a professional. \*2 Optional air protection guide is required where ambient temperature is lower than -5°C.

### Inverter wer ster www Wer ster wwwer ster www Wer ster www Wer ster www Wer ster www PEA-M SERIES STANDARD INVERTER

		Opauli	e Optonal	Optional Optional	
Туре				Inverte	r Heat Pump
Indoor Ur	nit			PEA-M200LA	PEA-M250LA
Outdoor l	Jnit			PUZ-M200YKA	PUZ-M250YKA
Refrigera	nt			F	R32*1
	Source			Separate	power supply
Supply	Outdoor (V/Phas	se/Hz)			Three / 50
Cooling	Capacity	Rated	kW	19.0	22.0
		Min - Max	kW	9.2 - 22.4	9.9 - 27.0
	Total Input	Rated	kW	6.089	7.333
	EER	- <b>I</b>		3.12	3.00
		EEL Rank		-	-
Heating	Capacity	Rated	kW	22.4	27.0
(Average		Min - Max	kW	6.8 - 25.0	7.3 - 31.0
Season)	Total Input	Rated	kW	6.588	8.181
	COP	1.		3.40	3.30
		EEL Rank		-	-
Operatin	g Current (max)			25.7	25.9
Indoor	Input [Cooling / H	eating] Rated	kW	0.35 / 0.35	0.53 / 0.53
Unit	Operating Curren	nt (max)	A	3.1	3.4
	Dimensions	H x W x D	mm	470 - 1	1370 - 1120
	Weight	I	kg		87
	Air Volume [Lo-N	1id-Hi]	m³/min	42 - 51 - 60 (60Pa - 150Pa) 42 - 51 - 55 (200Pa)	50 - 61 - 72 (60Pa - 100Pa) 45 - 55 - 65 (150Pa) 45 - 50 - 55 (200Pa)
	External Static P	ressure	Pa	(60) / 75 / (1	00) / (150) / (200)
	Sound Level (SPL	_) [Lo-Mid-Hi]	dB(A)	35 - 40 - 43	38 - 43 - 47
	Sound Level (PW	'L)	dB(A)	63 - 64 - 64	67 - 67 - 68
	Dimensions	H x W x D	mm	1338 - 10	50 - 330 (+40)
Unit	Weight	1	kg	129	138
	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 Curren		A	22.5	22.5
	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
	ed Operating Range	Cooling*2	°C	-15 ~ +46	-15 ~ +46
[Outdoor]		Heating	°C	-20 ~ +21	-20 ~ +21

\*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or diassemble the product yourself and always ask a professional. \*2 Optional air protection guide is required where ambient temperature is lower than -5°C.

	Inverter	Vector Sine Wave	DC Serol	Rare Earth Magnet	DC Fan Motor	Vector-Wave	Power Receiver	Growed Piping	Demand Control Optional	Q≑Ö Aco	<b>4</b> Auto Restart	Low Temp Cooling	Silent	Ampere Limit
POWER INVERTER	Optional	Group Control	M-NET connection	Wi-Fi )) Interface Optional	Cleaning-Iree,	Pump Down	Flare connection	Self Diagnosis	Failure Recal					

Туре				Inverte	r Heat Pump
Indoor U	nit			PEA-M200LA	PEA-M250LA
Outdoor	Unit			PUHZ-ZRP200YKA3	PUHZ-ZRP250YKA3
Refrigera	ant			R	410A*1
Power	Source			Separate	power supply
Supply	Outdoor (V/Phase	e/Hz)		400 /	Three / 50
Cooling	Capacity	Rated	kW	19.0	22.0
		Min - Max	kW	9.0 - 22.4	11.2 - 27.0
	Total Input	Rated	kW	5.937	7.971
	EER			3.20	2.76
		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	6.530	8.181
	COP			3.43	3.30
		EEL Rank		-	-
Operatir	ng Current (max)			22.2	24.4
Indoor	Input [Cooling / He	eating] Rated	kW	0.35 / 0.35	0.53 / 0.53
Unit	Operating Curren	it (max)	A	3.1	3.4
	Dimensions	H x W x D	mm	470 -	1370 - 1120
	Weight		kg		87
	Air Volume [Lo-M	id-Hi]	m³/min	42 - 51 - 60 (60Pa - 150Pa) 42 - 51 - 55 (200Pa)	50 - 61 - 72 (60Pa - 100Pa) 45 - 55 - 65 (150Pa) 45 - 50 - 55 (200Pa
	External Static Pr	essure	Pa	(60) / 75 / (1	100) / (150) / (200)
	Sound Level (SPL	) [Lo-Mid-Hi]	dB(A)	35 - 40 - 43	38 - 43 - 47
	Sound Level (PWI	L)	dB(A)	63 - 64 - 64	67 - 67 - 68
Outdoor	r Dimensions	H x W x D	mm	1338 - 10	050 - 330 (+40)
Unit	Weight		kg		135
	Air Volume	Cooling	m³/min		140
		Heating	m³/min		140
	Sound Level (SPL	) Cooling	dB(A)		59
		Heating	dB(A)		62
	Sound Level (PWL	) Cooling	dB(A)		77
	Operating Curren	t (max)	A	19.0	21.0
	Breaker Size		A		32
Ext.	Diameter	Liquid / Gas	mm	9.52 / 25.4	12.7 / 25.4
Piping	Max. Length	Out-In	m		100
	Max. Height	Out-In	m		30
	ed Operating Range	Cooling*2	°C	-1!	5 ~ +46
[Outdoor		Heating	°C	-21	0 ~ +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 CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or diassemble the product yourself and always ask a professional. \*2 Optional air protection guide is required where ambient temperature is lower than -5°C.

### Inverter Votor Service Control **PEA-M** SERIES Meneti Wi-Fi Wie Powe Powe Connection Face

India         PEA.M200LA         PEA.M200LA           Outdoor Unit         PUH2-P20YKA3         PUH2-P20YKA3           Barringsmit         Separate power supply           Supply         Outdoor (V/Phase/Hz)         Separate power supply           Outdoor Unit         W         100           Condoor (V/Phase/Hz)         400 / Three / 50           Condoor (V/Phase/Hz)         KW         9.0-22.4           Total Input         Rated         KW         9.0-22.4           Coperating Current Insu         KW         0.0706         8.437           Coperating Current Insu         KW         0.037/030         0.053/0.53           Operating	_		Option	a Optional		
Outdoor Unit         PUHZ-P200YKA3         PUHZ-P200YKA3           Refrigerant         Ra10A <sup>-1</sup> Power Supply         Goarde         Separate power supply           Goarde         400 / hree / 50           Colling         Min - Max         HW           Min - Max         HW         9.0           Teal Davit         Rated         HW           Min - Max         HW         9.0           ER         3.07         2.73           ER         3.07         2.73           ER         3.07         2.73           Total Input         Rated         W         9.5 - 26.0         12.5 - 31.0           Kaverage         Min - Max         W         9.5 - 26.0         12.5 - 31.0           CoP	Туре					
Indifigurant     BaltaA <sup>1</sup> Power Source     Source Outdoor (V/Phase/Hz)     Source 400 (Times / 50       Cooling     Capacity     Rated     KV     19.0       Cooling     Capacity     Rated     KV     90.0-22.4       Total Input     Rated     KV     90.0-22.4     112-27.0       Eff     0.07     2.73       Eff     0.07     2.73       Capacity     Rated     KV     9.0-22.4       Min - Max     KV     9.0-22.4       Eff     0.07     2.73       Capacity     Rated     KV     9.0-22.4       Total Input     Rated     KV     9.0-22.4       Capacity     Rated     KV     9.0-22.4       Diversity     Rated     KV     9.0-22.4       Diversity     Rated     KV     9.0-22.4       Diversity     Rated     KV     9.0-0-0-0-0-0-0-0-0-0-0-0-0-						
Source         Sequence         Sequence         Sequence         Sequence         Sequence         Sequence         Add         Distance         Sequence         S						
Supply         Outdoor (V/Phese/Hz)         400 / Three / 50           Cooling         Capaity         Rated         kW         19.0         22.0           Total Input         Rated         kW         9.0-22.4         11.2-27.0           Total Input         Rated         kW         9.0-22.4         11.2-27.0           Total Input         Rated         kW         9.0-22.4         2.73           Fee         E         3.07         2.73           Total Input         Rated         kW         22.4           Min · Max         kW         9.5-25.0         12.5-31.0           Seeson         Total Input         Rated         kW         6.706         8.437           Coperating Current (max)         Rated         kW         0.351/0.53         0.531/0.53           Input (Cooling / Heating)         Rated         kW         0.351/0.53         0.531/0.53           Unit         Operating Current (max)         A         3.1         3.4         3.4           Unit         Total Input         kg         60-61-72 (60Pa+100Pa) 45-55-65 (150Pa) 45-50-55 (20Pa)         50-61-72 (60Pa+100Pa) 45-50-55 (50Pa) 42-51-55 (20Pa)           Unit         Meight         kg         0.34-47         60/0 / 75 (100 / 15	Refrigera					
Cooling Cooling Total Input         Rated Min - Max         KW         19.0         Month Min         22.0           Total Input         Rated         KW         9.0 - 22.4         11.2 - 27.0         11.2 - 27.0           Eff         -         -         2.73         0.058         0.058           EFR         -         -         -         -         -           Version         Rated         kW         0.6188         0.058           Copacity         Rated         kW         0.6706         0.437           Copacity         Rated         kW         0.6706         0.437           Cop         -         -         -         -           Copacity         Rated         kW         0.0570.635         0.63.405           Copacity         Guerant (max)         A         3.1         -         -           Operating Current (max)         A         3.1         0.6370.633         0.657.057.057           Unition         Input (Coding / Heating)         Rated         kW         0.610.757.0120         87           Air Volume (Lo-Mid-Hi)         m?m         42-51-60.600Pa-150Pa).42-51-55.057.057.0500         50-61-72.600Pa-10Da).45-55-65.055.0500Pa)           External Static Pres						
Index         Mm         Mm <th< th=""><th></th><th>Outdoor (V/Pha</th><th>se/Hz)</th><th></th><th></th><th></th></th<>		Outdoor (V/Pha	se/Hz)			
Total Input         Rated         KW         6.198         8.058           ER         3.07         2.73           Heating         Rated         KW         2.24         2.73           Gapacity         Rated         KW         2.24         2.70           Variant         Rated         KW         2.24         2.70           Min - Max         KW         9.5 - 25.0         12.5 - 31.0           Coperating Current (max)         Rated         KW         6.706         8.437           Coperating Current (max)         Rated         KW         0.351.0.35         0.531.0.53           Unit         Coperating Current (max)         A         3.1         3.4           Dimensions         H × W × D         mm         470 - 1370 - 1120           Weight         kg         87         87         87           Air Volume         Ibel (SPU [Lo-Mid+H])         m/mn         42 - 51 - 60 (60Pa - 150Pa)         42 - 55 - 65 (150Pa)         45 - 50 - 55 (20Pa)           Sound Level (SPU [Lo-Mid+H]         dB(A)         63 - 40 - 43         67         77           Gourd Level (SPU [Lo-Mid+H]         dB(A)         63 - 40 - 43         69         69           Gound Level (PWL)         Go	Cooling	Capacity	Rated	kW		
ER         3.07         2.73           Heating (Average Season)         EER Rank         -         -           Total Input (Average Season)         Capacity (In + Max)         Rated (W         W/         22.4         27.0           Operating Unit         Rated (Der ating Current (max)         W/         0.706         12.5-31.0           Operating Unit         Core         3.34         3.20           Operating Unit         Core         22.2         24.4           Operating Operating Operating Current (max)         A         3.1         3.4           Operating Operating Current (max)         A         3.1         3.4           Weight         Kg         87         87           Air Volume [Lo-Mid-Hi]         M/W × D         mm         470-1370-1120           Weight         Kg         80         87           Air Volume [Lo-Mid-Hi]         M/M         36-40-43         38-43-47           Sound Level (SPL) [Lo-Mid-Hi]         MgA)         63-61-62         607-67-68           Outdoor         Dimensions         H × W × D         mm         1338-1050-330 (+40)           Unit         Good Level (SPL) [Lo-Mid-Hi]         MgA)         63-40-43         62           Sound Level (SPL) <td></td> <th></th> <td>Min - Max</td> <td>kW</td> <td>9.0 - 22.4</td> <td>11.2 - 27.0</td>			Min - Max	kW	9.0 - 22.4	11.2 - 27.0
Heating (Verage Sesson)         EEL Rank         .         .           Total Input COP         Rated         KW         22.0         27.0           Total Input COP         Rated         KW         9525.0         12.5-31.0           Total Input COP         Rated         KW         6.706         8.437           COP         3.34         3.20         3.20           EEL Rank         .         22.2         24.4           Indoor         Input (Colling / Heating)         Rated         kW         0.35/0.53           Operating Current (max)         A         3.1         3.4         3.4           Dimensions         H XW X D         mm         470-1370-1120         46/0           Weight         Kg         87         87         87           Air Volume [Lo-Mid-Hi]         m/min         42-51-60 (60Pa-150Pa)         42-51-55 (200Pa)         50-61-72 (60Pa-100Pa)         45-55-65 (150Pa)           Sound Level [PWL)         dB(A)         35-40-43         03-43-47         38-43-47           Sound Level [PWL)         dB(A)         63-64-64         67-67-68         60/75-67-68           Unit         Weight         kg         127         135         140		Total Input	Rated	kW	6.188	8.058
Heating Generating Average Season)         Bated Min - Maix         kW         92.4         27.0           Total Input Coll Input Coll         Min - Maix         kW         9.5 - 25.0         12.5 - 31.0           Cop		EER			3.07	2.73
Civerage Season         Min · Max         KW         9.5 - 25.0         12.5 - 31.0           Total Input         Rated         KW         9.5 - 25.0         12.5 - 31.0           Total Input         Rated         KW         6.706         8.437           Operating Current (max)         .         .         .         .           Indoor         [EEL Rank         .         .         .         .           Operating Current (max)         A         .         .         .         .         .           Indoor         [Unit]         [Operating Current (max]         A         .			EEL Rank		-	-
Season Intel input COP         Intel Nots         Not         N	Heating	Capacity	Rated	kW	22.4	27.0
Iotal input         [rated]         KW         6.70b         8.847           COP         EEL Rank         -         -         -           Operating Current (max)         [Rated]         KW         0.357.0.35         0.537.0.53           Unit         [nput] [Cooling / Heating]         Rated         KW         0.0357.0.35         0.537.0.53           Unit         [nput] [Cooling / Heating]         Rated         KW         0.0357.0.35         0.537.0.53           Unit         [nput] [Cooling / Heating]         Rated         KW         0.0357.0.35         0.537.0.53           Unit         [nput] [Cooling / Heating]         Rated         KV         0.370.112.0         3.4           Weight         kg         -51.60 (60Pa - 150Pa) 42 - 51.55 (200Pa)         50.61.72 (60Pa - 100Pa) 45 - 55.65 (150Pa) 45 - 50.55 (500Pa)           Sound Level [CWL]         dB(A)         35.40.43         38.43.47           Sound Level [PWL]         dB(A)         36.40.43         67.67.68           Unit         [minensions]         H × W × D         mm         1338 - 1050.330 (+40)           Unit         [Sound Level (PWL]         Cooling         m?/min         140           Maxing         dB(A)         68         62         59			Min - Max	kW	9.5 - 25.0	12.5 - 31.0
Indeor Unit         ELL Rank         .           Operating Current (max)         Rated         kW         0.035/0.035         0.637/0.53           Unit         Input (Cooling / Heating) Operating Current (max)         Rated         kW         0.035/0.035         0.637/0.53           Operating Current (max)         A         3.1         3.4         3.4           Dimensions         H × W × D         mm         42-51-60 (60Pa-150Pa) 42-51-55 (200Pa)         50-61-72 (60Pa-100Pa) 45-55-65 (150Pa) 45-50-55 (200Pa)           External Static Pressure         Pa         (60)/75 / (100) / (150) / (200)         50-61-72 (60Pa-100Pa) 45-55-65 (150Pa) 45-50-55 (200Pa)           Sound Level (PVL)         dB(A)         63-40-43         38-43-47           Sound Level (PVL)         dB(A)         63-64-64         67-67-68           Outdoor         Dimensions         H × W × D         mm         1338 - 1050 - 330 (+40)           Unit         Kg         127         135         140           No Level (PVL)         Cooling         m?min         1400         140           Weight         Kg         0.00         62         0.00           Sound Level (PVL)         Cooling         dB(A)         60         62         0.00           General Size	Season)	Total Input	Rated	kW	6.706	8.437
Operating Current (max)         22.2         24.4           Indoor Unit         Input [Cooling / Heating]         Rated         kV         0.35/0.35         0.53/0.53           Operating Current (max)         A         3.1         3.4         3.4           Dimensions         H × W × D         mm         470-1370-1120         3.4           Weight         kg         87         3.4         3.4           Air Volume [Lo-Mid-Hi]         m//min         42-51-60 (60Pa-150Pa)         50-61-72 (60Pa-100Pa)         45-55-65 (150Pa)         45-55-65 (150Pa)         45-55-65 (150Pa)         45-55-65 (150Pa)         45-55-65 (150Pa)         45-55-65 (200Pa)           Sound Level (SPL) [Lo-Mid-Hi]         dB(A)         35-40-43         38-43-47         38-43-47           Sound Level (SPL) [Lo-Mid-Hi]         dB(A)         63-64-64         67-67-68         67-67-68           Outdoor         Dimensions         H × W × D         mm         1338-1050-33 (+40)         140           Weight         kg         127         135         140         140           Sound Level (SPL)         Cooling         dB(A)         59         62         59           Heating         dB(A)         60         62         32         32         32 <th></th> <th>COP</th> <th></th> <th></th> <th>3.34</th> <th>3.20</th>		COP			3.34	3.20
Indoor Unit         Input [Cooling / Heating]         Rated         kW         0.35/0.35         0.53/0.53           Unit         Operating Current (max)         A         3.1         3.4           Dimensions         H × W × D         mm         470-1370-1120           Weight         kg         87           Air Volume [Lo-Mid-Hi]         m <sup>3</sup> min         42 - 51 - 60 (60Pa - 150Pa)         42 - 51 - 55 (200Pa)         50 - 61 - 72 (60Pa - 100Pa)         45 - 55 - 65 (150Pa)           External Static Pressure         Pa         (60) / 75 / (100) / (150) / (200)         38 - 43 - 47           Sound Level (SPL) [Lo-Mid-Hi]         dB(A)         63 - 64 - 64         67 - 67 - 68           Outdoor         Dimensions         H × W × D         mm         1338 - 1050 - 330 (+40)           Unit         Weight         kg         127         135           Air Volume         Cooling         m <sup>3</sup> min         140         140           Unit         Gooling         m <sup>3</sup> (A)         60         62         140           Breaker Size         Kg         127         135         140         140           Heating         m <sup>3</sup> min         140         140         140         140         140         140         160			EEL Rank		-	-
Unit         Operating Current (max)         A         3.1         3.4           Dimensions         H × W × D         mm         470 - 1370 - 1120           Weight         kg         87           A         0.000 - 1370 - 1120           Weight         kg         67           A         0.000 - 1370 - 1120           Weight         kg         67           A         0.000 - 1370 - 1120           Weight         kg         67           A         0.000 - 1370 - 1120           Weight         kg         600 / 75 / (100) / (150) / (200)           Sound Level (SPL) [Lo-Mid-Hi]         dB(A)         63 - 40 - 43         38 - 43 - 47           Sound Level (SPL) [Lo-Mid-Hi]         dB(A)         63 - 64 - 64         67 - 67 - 68           Outdoor         Dimensions         H × W × D         mm         1338 - 1050 - 330 (+40)           Unit         Kg         127         135         140           Veight         kg         127         135           Air Volume         Cooling         m <sup>3</sup> min         140         140           Breating Current (max)         A         18(A)         60         62           Sound Level (PWL)         Coo	Operatin	g Current (max)			22.2	24.4
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Input [Cooling / H	leating] Rated	kW	0.35 / 0.35	0.53 / 0.53
Weight         kg         BT           Air Volume [Lo-Mid-Hi]         m²/min         42 - 51 - 60 (60Pa - 150Pa) 42 - 51 - 55 (200Pa)         50 - 61 - 72 (60Pa - 100Pa) 45 - 55 - 65 (150Pa) 45 - 50 - 55 (200Pa)           External Static Pressure         Pa         (60) / 75 / (100) / (150) / (200)           Sound Level (PUL)         dB(A)         35 - 40 - 43         38 - 43 - 47           Sound Level (PUL)         dB(A)         63 - 64 - 64         67 - 67 - 68           Outdoor         Dimensions         H × W × D         mm         1338 - 1050 - 330 (+40)           Vinit         Gooling         m²/min         140         140           Heating         m²/min         140         140         140           Sound Level (SPL)         Cooling         dB(A)         58         59           Veight         Cooling         dB(A)         60         62           Sound Level (PUL)         Cooling         dB(A)         60         62           Sound Level (PUL)         Cooling         dB(A)         78         77           Operating Current (max)         A         19.0         21.0         32           Breaker Size         A         32         32         32           Fiping         Max. Length	Unit	Operating Curre	nt (max)	A	3.1	3.4
Air Volume [Lo-Mid-Hi]         m³min         42 - 51 - 60 (60Pa - 150Pa)         42 - 51 - 55 (200Pa)         50 - 61 - 72 (60Pa - 100Pa)         45 - 55 - 65 (150Pa)         45 - 50 - 55 (200Pa)         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45         36 - 45 - 45 <th< th=""><th></th><th>Dimensions</th><th>H x W x D</th><th>mm</th><th>470 - 1</th><th>370 - 1120</th></th<>		Dimensions	H x W x D	mm	470 - 1	370 - 1120
External Static Pressure         Pa         (60) / 75 / (100) / (150) / (200)           Sound Level (SPL) [Lo-Mid-Hi]         dB(A)         35 - 40 - 43         38 - 43 - 47           Sound Level (PWL)         dB(A)         63 - 64 - 64         67 - 67 - 68           Outdoor         Dimensions         H × W × D         mm         1338 - 1050 - 330 (+40)           Unit         Weight         kg         127         135           Air Volume         Cooling         m <sup>3</sup> /min         140         140           Sound Level (SPL)         Cooling         dB(A)         58         59           Maxing         M <sup>3</sup> /min         140         140         140           Sound Level (SPL)         Cooling         dB(A)         58         59           Gourd Level (PWL)         Cooling         dB(A)         60         62           Sound Level (PWL)         Cooling         dB(A)         78         77           Operating Current (max)         A         19.0         21.0         21.0           Breaker Size         A         32         32         32           Fiping         Max. Length         Out-In         m         70         70           Max. Length         Out-In		Weight		kg		87
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Air Volume [Lo-N	/lid-Hi]	m³/min	42 - 51 - 60 (60Pa - 150Pa) 42 - 51 - 55 (200Pa)	50 - 61 - 72 (60Pa - 100Pa) 45 - 55 - 65 (150Pa) 45 - 50 - 55 (200Pa)
		External Static P	Pressure	Pa	(60) / 75 / (1	00) / (150) / (200)
Outdoor Unit         Dimensions         H × W × D         mm         1338 - 1050 - 330 (+40)           Weight         kg         127         135           Air Volume         Cooling         m <sup>m</sup> /m         140           Heating         m <sup>m</sup> /m         140         140           Sound Level (SPL)         Cooling         dB(A)         58         59           Heating         dB(A)         60         62           Sound Level (PWL)         Cooling         dB(A)         60         62           Breaker Size         A         19.0         21.0           Breaker Size         A         32         32           Diameter         Liquid / Gas         mm         9.52 / 25.4         12.7 / 25.4           Pipping         Max. Height         Out-In         m         30         30           Guaranteed Operating Range         Cooling*2         °C         -15 ~ +46         -15 ~ +46		Sound Level (SP	L) [Lo-Mid-Hi]	dB(A)	35 - 40 - 43	38 - 43 - 47
UnitWeightkg127135Air VolumeCoolingm³min140140Heatingm³min140140Sound Level (SPL)CoolingdB(A)5859HeatingdB(A)6062Sound Level (PWL)CoolingdB(A)7877Operating Current (max)A19.021.0Breaker SizeA3232DiameterLiquid / Gasmm9.52 / 25.412.7 / 25.4PipingMax. LengthOut-Inm70Max. HeightOut-Inm3030Guaranteer Uperating RangeCooling*2°C-15 ~ +46-15 ~ +46		Sound Level (PW	/L)	dB(A)	63 - 64 - 64	67 - 67 - 68
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Dimensions	H x W x D	mm	1338 - 10	50 - 330 (+40)
Heating         m <sup>3</sup> /min         140         140           Sound Level (SPL)         Cooling         dB(A)         58         59           Heating         dB(A)         60         62           Sound Level (PWL)         Cooling         dB(A)         78           Operating Current (max)         A         19.0         21.0           Breaker Size         A         32         32           Fiping         Max. Length         Out-In         m         70           Max. Length         Out-In         m         30         30           Guaranteed Operating Range         Cooling <sup>52</sup> °C         -15 ~ +46         -15 ~ +46	Unit	Weight	1	kg	127	135
Sound Level (SPL)         Cooling         dB(A)         58         59           Heating         dB(A)         60         62           Sound Level (PWL)         Cooling         dB(A)         60         62           Operating Current (max)         A         19.0         77           Breaker Size         A         32         32           Ext.         Diameter         Liquid / Gas         mm         9.52 / 25.4         12.7 / 25.4           Max. Length         Out-In         m         70         70         70           Guaranteed Operating Range         Cooling*2         °C         -15 ~ +46         -15 ~ +46		Air Volume	Cooling	m³/min	140	140
Heating         dB(A)         60         62           Sound Level (PWL)         Cooling         dB(A)         78         77           Operating Current (max)         A         19.0         21.0           Breaker Size         A         32         32           Diameter         Liquid / Gas         mm         9.52/25.4         112.7/25.4           Priping         Max. Length         Out-In         m         70         70           Guaranteed Operating Range         Cooling*2         °C         -15 ~ +46         -15 ~ +46			Heating	m³/min	140	140
Sound Level (PWL)         Cooling         dB(A)         78         77           Operating Current (max)         A         19.0         21.0           Breaker Size         A         32         32           Ext.         Diameter         Liquid / Gas         m         9.52/25.4         12.7/25.4           Piping         Max. Leight         Out-In         m         70         70           Guaranteed Operating Range         Cooling*2         °C         -15 ~ +46         -15 ~ +46		Sound Level (SP	L) Cooling	dB(A)	58	59
Operating Current (max)         A         19.0         21.0           Breaker Size         A         32         32           Ext.         Diameter         Liquid / Gas         mm         9.52 / 25.4         12.7 / 25.4           Max. Length         Out-In         m         70         70           Max. Height         Out-In         m         30         30           Guaranteed Operating Range         Cooling*2         °C         -15 ~ +46         -15 ~ +46			Heating	dB(A)	60	62
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           Guaranteed Operating Range         Cooling*2         °C         -15 ~ +46         -15 ~ +46		Sound Level (PW	L) Cooling	dB(A)	78	77
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           Guaranteed Operating Range         Cooling*2         °C         -15 ~ +46         -15 ~ +46		Operating Curre	nt (max)	A	19.0	21.0
Piping         Max. Length         Out-In         m         70         70           Max. Height         Out-In         m         30         30         30           Guaranteed Operating Range         Cooling *2         °C         -15 ~ +46         -15 ~ +46				A	32	32
Max. Height         Out-In         m         30         30           Guaranteed Operating Range         Cooling <sup>+2</sup> °C         -15 ~ +46         -15 ~ +46	Ext.	Diameter	Liquid / Gas	mm	9.52 / 25.4	12.7 / 25.4
Max. Height         Out-In         m         30         30           Guaranteed Operating Range         Cooling *2         °C         -15 ~ +46         -15 ~ +46	Piping	Max. Length	Out-In	m	70	70
Guaranteed Operating Range         Cooling <sup>+2</sup> °C         -15 ~ +46         -15 ~ +46			Out-In	m	30	30
	Guarante		e Cooling*2	°C	-15 ~ +46	-15 ~ +46
			Heating	°C	-20 ~ +21	-20 ~ +21

\*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or diassemble the product yourself and always ask a professional. \*2 Optional air protection guide is required where ambient temperature is lower than -5°C.



### New Design (M35-50)

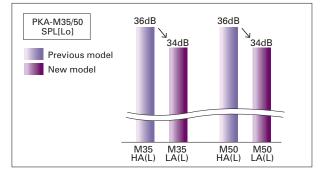
A sharp and simple form that combines beauty and function. The simple square design harmonizes beautifully with the straight lines created by the intersection of the walls, floor and ceiling of the space, leading to a better quality of space. Also adopted a new white body color. It will make your life and space beautiful and comfortable without disturbing the atmosphere of the room. In addition, we realized miniaturization of conventional model. It contributes to space saving of installation area and giving room to room space.



### Quietness (M35-50)

The noise level has been significantly reduced compared to the conventional model by reviewing the unit structure and improving the line flow fan.





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

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.

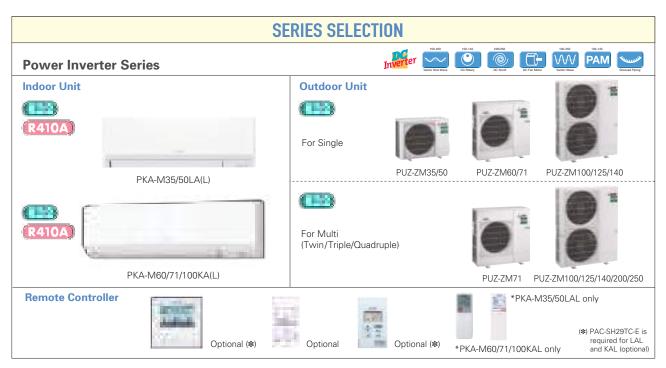


### Airflow Control – Horizontal Airflow – (M35-50)

Significantly improved airflow control to achieve horizontal airflow. This reduces the feeling of draft even on a wall-mounted model, and air conditioning the indoor space firmly.

### Airflow distributions

PKA-M50LA <Cooling mode> Horizontal airflow [m/s] 2 3:0 0.5 25 2:0 -1.5 0.2-1:0 Ê Height ( 0 0 2 Floor distance (m)



PKA-M LA(L)/KA(L) 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 Inverter (PUHZ-ZRP)	35x1	50x1	60x1	71x1	100x1	-	-	-	-	35x2	50x2	60x2	71x2	100x2	-	50x3	60x3	71x3	50x4	60x4
Distribution Pipe	-	-	-	-	-	-	-	-	-	N	ISDD-5	50TR2-	-E	MSDD- 50WR2-E	-	MSE	DT-111	R3-E		DF- R2-E



PKA-M LA/KA 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
Standard Inverter (PUHZ-P)	-	-	-	-	100x1	-	-	-	-	-	50x2	60x2	71x2	100x2	-	50x3	60x3	71x3	50x4	60x4
Distribution Pipe	-	-	-	-	-	-	-	-	-	-	MSD	D-50T	R2-E	MSDD- 50WR2-E	-	MSE	DT-111	R3-E	MS 1111	DF- R2-E

	Demand Control White V			Auto Restart	Low Temp Cooling Silent & Ampere Limit B	Rotation Back-up Group Original Original Original
PKA-M SERIES POWER INVERTER	Wi-Fi )) Interface Optional	Wiring Reuse Optional	Drain Lift Up Optional	Flare Connection Set Diagnosis		openia openia openia openia

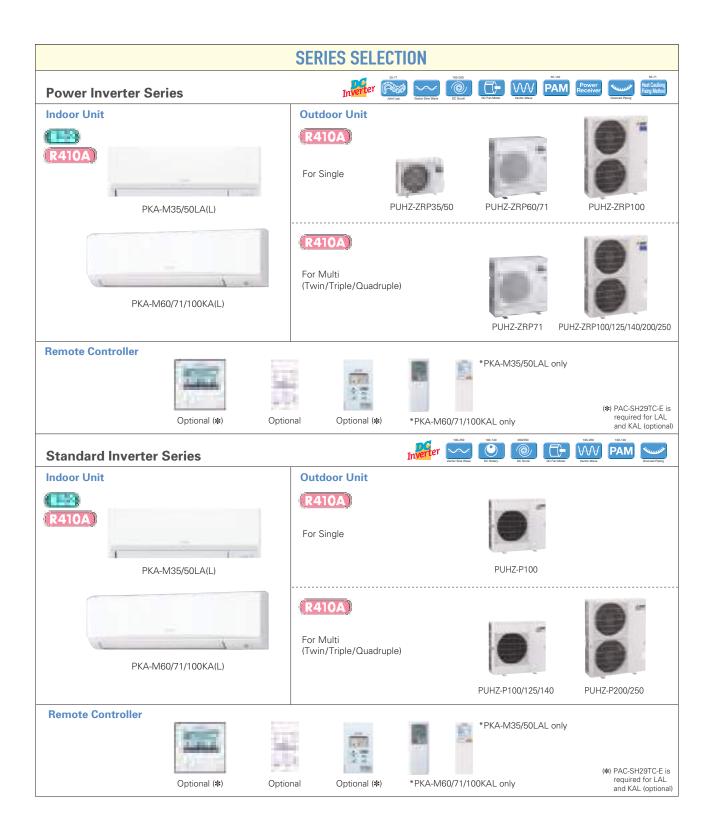
Туре						Inverter H	eat Pump		
Indoor Ui	nit			PKA-M35LA(L)	PKA-M50LA(L)	PKA-M60KA(L)	PKA-M71KA(L)	PKA-M1	00KA(L)
Outdoor	Unit			PUZ-ZM35VKA	PUZ-ZM50VKA	PUZ-ZM60VHA	PUZ-ZM71VHA	PUZ-ZM100VKA	PUZ-ZM100YKA
efrigera						B3			
	Source						wer supply		
	Outdoor (V/Phase	/Hz)				VKA · VHA:230 / Single /			
Cooling	Capacity	Rated	l kW	3.6	4.6	6.1	7.1	9.5	9.5
Jooning	oupdoity	Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4
	Total Input	Rated	kW	0.850	1.230	1.560	1.863	2.405	2.405
	EER	Hatod		4.20	3.71	3.91	3.81	3.95	3.95
		EEL Rank		-	-	-	-	-	-
	Design Load		kW.	3.6	4.6	6.1	7.1	9.5	9.5
	Annual Electricity	Consumption*2	kWh/a	194	244	313	364	508	519
	SEER*4	oonsumption	ice en que	6.5	6.6	6.8	6.8	6.5	6.4
	01111	Energy Efficiency Class		A++	A++	A++	A++	A++	Δ++
eating	Capacity	Rated	kW	4.1	5.0	7.0	8.0	11.2	11.2
Average		Min - Max	kW	1.6 - 5.2	2.5 - 6.6	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0
	Total Input	Rated	kW	1.040	1.340	1.732	2.116	3.102	3.102
	COP	1		3.94	3.72	4.04	3.78	3.61	3.61
		EEL Rank		-	_	-	-	-	_
	Design Load		l 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)
	,	at bivalent temperature	kW	2.4 (-10°C)	3.3 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)
Derating ndoor li nit C		at operation limit temperature	kW	2.2 (-11°C)	3.2 (-11°C)	2.8 (-20°C)	3.5 (-20°C)	5.8 (-20°C)	5.8 (-20°C)
	Back Up Heating (		kW	0	0	0	0	0	0
	Annual Electricity	Consumption*2	kWh/a	829	1074	1460	1523	2472	2472
	SCOP*4			4.0	4.3	4.2	4.3	4.4	4.4
		Energy Efficiency Class		A+	A+	A+	A+	A+	A+
peratin	g Current (max)		A	13.4	13.4	19.4	19.4	27.1	8.6
	Input	Rated	kW	0.04 / 0.03	0.04 / 0.03	0.06 / 0.05	0.06 / 0.05	0.08 / 0.07	0.08 / 0.07
nit	<b>Operating Current</b>	t (max)	A	0.35	0.35	0.43	0.43	0.57	0.57
	Dimensions <panel></panel>	H × W × D	mm	299 - 89			365 - 11		
	Weight <panel></panel>		kg	12.6	12.6	21	21	21	21
	Air Volume [Lo-Mi:		m <sup>3</sup> /min	7.5 - 8.2 - 9.2 - 10.9	7.5 - 8.2 - 9.2- 10.9	18 - 20 - 22	18 - 20 - 22	20 - 23 - 26	20 - 23 - 26
	Sound Level (SPL)		dB(A)	34 - 37 - 40 - 43	34 - 37 - 40 - 43	39 - 42 - 45	39 - 42 - 45	41 - 45 - 49	41 - 45 - 49
	Sound Level (PWL		dB(A)	60	60	64	64	65	65
	Dimensions	H × W × D	mm	630 - 80			- 330 (+25)		- 330 (+40)
Init	Weight		kg	46	46	70	70	116	123
	Air Volume	Cooling	m <sup>3</sup> /min	45	45	55	55	110	110
		Heating	m <sup>3</sup> /min	45	45	55	55	110	110
	Sound Level (SPL)		dB(A)	44	44	47	47	49	49
		Heating	dB(A)	46	46	49	49	51	51
	Sound Level (PWL)		dB(A)	65	65	67	67	69	69
	Operating Current	t (max)	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
	Max. Length	Out-In	m	50	50	55	55	100	100
	Max. Height	Out-In	m	30	30	30	30	30	30
luarante	ed Operating Range		°C °C	-15 ~ +46 -11 ~ +21	-15 ~ +46 -11 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21
Outdoor		Heating							

1 Control in the end of the en

PKA-M series	Demand Control Optimizer		Cooling Silent	to HAVX202200 Ampere Limit Back-up <sub>Cytoral</sub> Group Cytoral Cytoral Cytoral Cytoral
STANDARD INVERTER	Wi-Fi )) Interface	Wiring Reuse Optional Drain Lift Up Optional Down	Fare Connection	

Туре				Inverte	er Heat Pump
Indoor U	nit			PKA	-M100KA(L)
Outdoor	Unit			PUZ-M100VKA	PUZ-M100YKA
Refrigera	int				R32*1
ower	Source			Outdoo	r power supply
Supply	Outdoor (V/Phase	e/Hz)		230 / Single / 50	400 / Three /50
ooling	Capacity	Rated	kW	9.5	9.5
comig		Min - Max	kW	4.0 - 10.6	4.0 - 10.6
	Total Input	Rated	kW	2.94	2.94
	EER	1		3.23	3.23
		EEL Rank		-	-
	Design Load		kW	9.5	9.5
	Annual Electricity	Consumption*2	kWh/a	572	572
	SEER*4			5.8	5.8
		Energy Efficiency Cl	ass	A+	A+
eating	Capacity	Rated	kW	11.2	11.2
verage		Min - Max	kW	2.8 - 12.5	2.8 - 12.5
eason)	Total Input	Rated	kW	3.28	3.28
	COP			3.41	3.41
		EEL Rank		-	-
	Design Load		kW	8.0	8.0
	Declared Capacity	y at reference design tempera		6.0 (-10°C)	6.0 (-10°C)
		at bivalent temperature	kW	7.0 (–7°C)	7.0 (–7°C)
		at operation limit temperat		4.5 (-15°C)	4.5 (-15°C)
	Back Up Heating	Capacity	kW	2.0	2.0
	Annual Electricity	Consumption*2	kWh/a	2797	2797
	SCOP*4			4.0	4.0
		Energy Efficiency Cl		A+	A+
	ng Current (max)		A	20.6	12.1
	Input	Rated	kW	0.08	0.08
nit	Operating Curren		A	0.57	0.57
	Dimensions <panels< td=""><td>H×W×D</td><td>mm</td><td>365 - 1170 - 295</td><td>365 - 1170 - 295</td></panels<>	H×W×D	mm	365 - 1170 - 295	365 - 1170 - 295
	Weight <panel></panel>		kg	21	21
	Air Volume [Lo-M		m <sup>3</sup> /min	20 - 23 - 26	20 - 23 - 26
	Sound Level (SPL		dB(A)	41 - 45 - 49	41 - 45 - 49
	Sound Level (PW		dB(A)	65	65
utdoor nit	Dimensions	H × W × D	mm	981 - 1050 - 330 (+40)	981 - 1050 - 330 (+40)
nit	Weight		kg	76	78
	Air Volume	Cooling	m <sup>3</sup> /min	79.0	79.0
	0	Heating	m³/min dB(A)	79.0	79.0
	Sound Level (SPL)		dB(A)	51 54	51 54
	Sound Level (PWL	Heating		70	70
	Sound Level (PWL Operating Curren		dB(A)	20.0	11.5
	Operating Curren Breaker Size	t (max)	A	32	11.5
xt.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	55	55
Ping	Max. Length Max. Height	Out-In Out-In	m	30	30
uoronto	ed Operating Range		°C	-15 ~ +46	-15 ~ +46
outdoor		Heating	°C	-15 ~ +46 -15 ~ +21	-15 ~ +46 -15 ~ +21
Outdool	1			-15 ~ +21	-15 ~ +21

11 Contaction [Pleating]
12 - 15 - +21
13 - 15 - +21
14 The Arigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
\*3 Optional air protection guide is required where ambient temperature is lower than -5°C.
\*4 SEER and SCOP are based on 2009/125/EC.Energy-related Products Directive and Regulation(EU) No206/2012.



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

		Outdoor Unit Capacity																			
Indoor	Indoor Unit Combination		For Single									For Twin For Triple For 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	-	-	-	-	35x2	50x2	60x2	71x2	100x2	-	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	-	Ν	/SDD-	50TR-	E	MSDD- 50WR-E	-	MS	DT-111	IR-E	MSDF-1	1111R-E
Standa	ard Inverter (PUHZ-P)	-	-	-	-	100x1	-	-	-	-	-	50x2	60x2	71x2	100x2	-	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe			-	-	-	-	-	-	-	-	MSI	DD-50	ΓR-E	MSDD- 50WR-E	-	MS	DT-111	IR-E	MSDF-1	1111R-E

	Demand Control Optional	AUTO ANE Check! Optional		Auto Restart Cooling	Silent Silent Rotation	Group Control Optional
PKA-M SERIES POWER INVERTER	Wi-Fi )) Interface Optional	Wiring Reuse Optional	Drain Lift Up Optional	Flare connection Staff Diagnosis Failure Recall		

Туре						Inverter H	eat Pump		
Indoor U	nit			PKA-M35LA(L)	PKA-M50LA(L)	PKA-M60KA(L)	PKA-M71KA(L)	PKA-M1	00KA(L)
Outdoor	Unit			PUHZ-ZRP35VKA2	PUHZ-ZRP50VKA2	PUHZ-ZRP60VHA2	PUHZ-ZRP71VHA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA3
Refrigera							0A*1		
Power	Source					Outdoor po	ower supply		
	Outdoor (V/Phase	/Hz)					50, YKA:400 / Three / 50		
Cooling	Capacity	Rated	kW	3.6	4.6	6.1	7.1	9.5	9.5
		Min - Max	kW	1.6 - 4.5	2.3 - 5.4	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4
	Total Input	Rated	kW	0.940	1.424	1.60	1.80	2.40	2.40
	EER			3.80	3.23	3.81	3.94	3.96	3.96
		EEL Rank		-	-	-	-	-	-
	Design Load		kW	3.6	4.6	6.1	7.1	9.5	9.5
	Annual Electricity	Consumption*2	kWh/a	206	263	324	368	522	533
	SEER*4			6.1	6.1	6.5	6.7	6.3	6.2
		Energy Efficiency Class		A++	A++	A++	A++	A++	A++
Heating	Capacity	Rated	kW	4.1	5.0	7.0	8.0	11.2	11.2
(Average Season)		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
Season)	Total Input	Rated	kW	1.070	1.501	1.96	2.19	3.04	3.04
	COP	EEL Rank		3.83	3.33	3.57	3.65	3.68	3.68
		EEL Rank	1 1 1 4 /	2.4	3.3	4.4	4.7	7.8	7.8
	Design Load	at reference design temperature	kW kW	2.4 2.4 (–10°C)	3.3 (-10°C)	4.4 4.4 (–10°C)	4.7 4.7 (–10°C)	7.8 (–10°C)	7.8 (–10°C)
	Declared Capacity	at reference design temperature at bivalent temperature	kW kW	2.4 (-10°C) 2.4 (-10°C)	3.3 (-10°C)	4.4 (-10°C) 4.4 (-10°C)	4.7 (-10°C) 4.7 (-10°C)	7.8 (–10°C) 7.8 (–10°C)	7.8 (-10°C)
		at operation limit temperature	kW kW	2.2 (-11°C)	3.2 (-11°C)	2.8 (-20°C)	3.5 (-20°C)	5.8 (-20°C)	5.8 (-20°C)
	Back Up Heating C		kW	0	0	2.0 (-20 C)	0	0	0
	Annual Electricity	Consumption*2	kWh/a	841	1126	1473	1532	2608	2608
	SCOP*4	consumption	K v vi i/a	3.9	4.1	4.2	4.3	4.1	4.1
		Energy Efficiency Class		A	A+	A+	A+	A+	A+
Operatin	g Current (max)		A	13.4	13.4	19.4	19.4	27.1	8.6
Indoor	Input [Cooling / Hea	ating] Bated	kW	0.04 / 0.03	0.04 / 0.03	0.06	0.06	0.08	0.08
Unit	<b>Operating Current</b>		A	0.35	0.35	0.43	0.43	0.57	0.57
	Dimensions <panel></panel>	H × W × D	mm	299 - 89	98 - 237		365 - 11	70 - 295	
	Weight <panel></panel>		kg	12.6	12.6	21	21	21	21
	Air Volume [Lo-Mi2		m <sup>3</sup> /min	7.5 - 8.2 - 9.2 - 10.9	7.5 - 8.2 - 9.2 - 10.9	18 - 20 - 22	18 - 20 - 22	20 - 23 - 26	20 - 23 - 26
	Sound Level (SPL)		dB(A)	34 - 37 - 40 - 43	34 - 37 - 40 - 43	39 - 42 - 45	39 - 42 - 45	41 - 45 - 49	41 - 45 - 49
	Sound Level (PWL		dB(A)	60	60	64	64	65	65
	Dimensions	H × W × D	mm	630 - 80			- 330 (+30)		) - 330 (+40)
Unit	Weight		kg	43	46	70	70	116	123
	Air Volume	Cooling	m <sup>3</sup> /min	45	45	55	55	110	110
		Heating	m <sup>3</sup> /min	45	45	55 47	55 47	110 49	110 49
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	49	49
	0	Heating	dB(A) dB(A)	46 65	46 65	48 67	48 67	69	69
	Sound Level (PWL) Operating Current	Cooling		13.0	13.0	19.0	19.0	26.5	8.0
	Breaker Size	(IIIdX)	A	13.0	13.0	25	25	32	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
	Max. Length	Out-In	mm	50	50	9.52/15.88	9.52/15.88	9.52 / 15.88	9.52/15.88
	Max. Height	Out-In	m	30	30	30	30	30	30
Guarante	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
Outdoor		Heating	°Č	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21
	,						20 121		

The during the arefigerant leakage contributes to climate change. Refigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R110A 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 in protection guide is required where ambient temperature is lower than –5°C.
\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

PKA-M SERIES	Demand Control Optional		Cooling Silent	Rotation Back-up Optional	Group Control Optional Optional
STANDARD INVERTER		ring use Lift Up Opticual	Diagnosis Failure Recall		

Туре				Inverter H	leat Pump
Indoor Ur	nit			PKA-M1	100KA(L)
Outdoor	Unit			PUHZ-P100VKA	PUHZ-P100YKA
Refrigera					0A*1
	Source				ower supply
	Outdoor (V/Phase	e/Hz)		230 / Single / 50	400 / Three / 50
Cooling	Capacity	Rated	kW	9.4	9.4
ocoming	oupuoity	Min - Max	kW	3.7 - 10.6	3.7 - 10.6
	Total Input	Rated	kW	3.12	3.12
	EER	Hatod		3.01	3.01
		EEL Rank		_	-
	Design Load		kW	9.4	9.4
	Annual Electricity	Consumption*2	kWh/a	586	586
	SEER*4	•		5.6	5.6
		Energy Efficiency Class		A+	A+
Heating	Capacity	Rated	kW	11.2	11.2
(Average		Min - Max	kW	2.8 - 12.5	2.8 - 12.5
Season)	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	Capacity	kW	2.0	2.0
	Annual Electricity	Consumption*2	kWh/a	2795	2795
	SCOP*4	= = = = = = = = = = = = = = = = = = = =		4.0	4.0
0		Energy Efficiency Class		A+	<u>A+</u> 12.1
	g Current (max)	Rated	A kW	20.6	0.08
	Operating Current		A	0.08	0.08
onic	Dimensions <panel></panel>		mm		0.57
	Weight <panel></panel>	HXWXD	kg	21	21
	Air Volume (Lo-Mi	d-Hi]	m <sup>3</sup> /min	20 - 23 - 26	20 - 23 - 26
	Sound Level (SPL		dB(A)	41 - 45 - 49	41 - 45 - 49
	Sound Level (PWL		dB(A)	65	65
	Dimensions	H × W × D	mm		050 - 330
Unit	Weight		kg	76	78
	Air Volume	Cooling	m <sup>3</sup> /min	79	79
		Heating	m <sup>3</sup> /min	79	79
	Sound Level (SPL)	Cooling	dB(A)	51	51
		Heating	dB(A)	54	54
	Sound Level (PWL)		dB(A)	70	70
	Operating Current	t (max)	A	20.0	11.5
	Breaker Size		A	32	16
Ext.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88
Piping	Max. Length	Out-In	m	50	50
	Max. Height	Out-In	m	30	30
Guarante	ed Operating Range		°C	-15 ~ +46	-15 ~ +46
[Outdoor]	]	Heating	°C	-15 ~ +21	-15 ~ +21

 (OUtboor)
 Heating
 \*C
 -15 - +21
 -15 - +21

 \*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 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 At10A 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 in protection guide is required where ambient temperature is lower than -5°C.

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



### 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.



РСА-КА

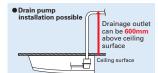
### ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

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.



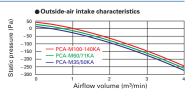
### **Optional Drain Pump for Full-capacity Models**

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



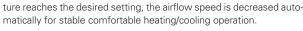
### **Outside-air Intake**

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 tempera-





### Equipped with High- /Low-ceiling Modes

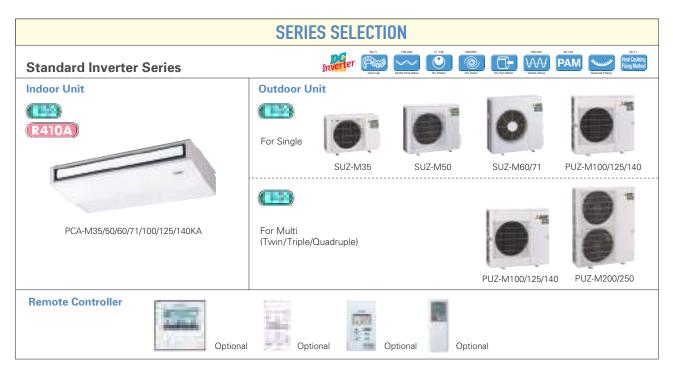
Units are equipped with high- and low-ceiling operation modes that make it possible to switch the airflow volume to match room height. The ability to choose the optimum airflow volume makes it possible to optimize the breezy sensation felt throughout the room.

Capacity	High ceiling	Standard ceiling	Low ceiling
35	3.5m	2.7m	2.5m
50	3.5m	2.7m	2.5m
60	3.5m	2.7m	2.5m
71	3.5m	2.7m	2.5m
100	4.2m	3.0m	2.6m
125	4.2m	3.0m	2.6m
140	4.2m	3.0m	2.6m

	SERIES SELECTION
Power Inverter Series	Inverter Late be very ward of the second s
Indoor Unit	Outdoor Unit
R410A	For Single
-	PUZ-ZM35/50 PUZ-ZM60/71 PUZ-ZM100/125/140
PCA-M35/50/60/71/100/125/140KA	For Multi (Twin/Triple/Quadruple)
Remote Controller Optional	PUZ-ZM71 PUZ-ZM100/125/140/200/250

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

									Outd	oor Ur	nit Cap	pacity								
Indoor Unit Combination				Fo	or Sing	gle						For	Twin			F	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 Inverter (PUHZ-ZRP)	35x1	50x1	60x1	71x1	100x1	125x1	140x1	-	-	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
Distribution Pipe	-	-	_	-	-	-	-	-	-	N	1SDD-	50TR2	-E		DD- R2-E	MSE	DT-111	R3-E		DF- R2-E



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

										Outd	oor Ui	nit Cap	pacity								
Indoo	Indoor Unit Combination				Fo	or Sing	gle						For	Twin			F	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
Stand	Standard Inverter (PUHZ-P&SUZ)		50x1	60x1	71x1	100x1	125x1	140x1	-	-	-	50x2	60×2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe		-	-	-	_	-	-	-	-	-	MSD	D-50T	R2-E	MS 50W	DD- R2-E	MSE	DT-111	R3-E	MS 1111	DF- R2-E

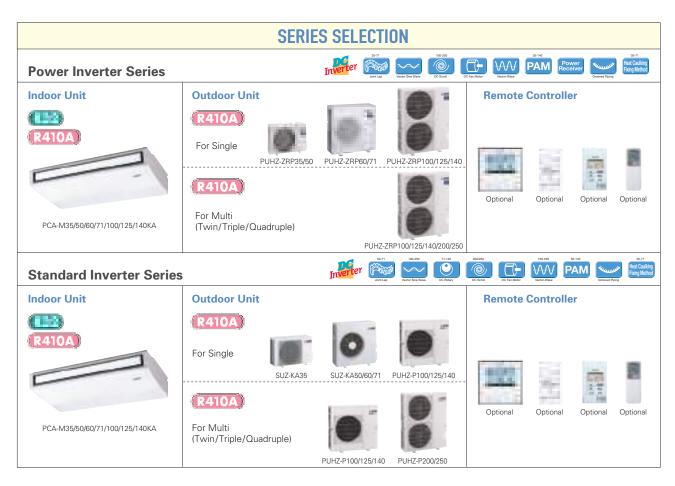
PCA-M KA SERIES	
POWER INVERTER	Reversions of the connection o
Turne	Investor Hand Duran

1 ypc								Inventer I	eatrump				
Indoor U	nit			PCA- M35KA	PCA- M50KA	PCA- M60KA	PCA- M71KA	PCA-N	1100KA	PCA-M	1125KA	PCA-M	140KA
Outdoor	Unit			PUZ- ZM35VKA	PUZ- ZM50VKA	PUZ- ZM60VHA	PUZ- ZM71VHA	PUZ- ZM100VKA	PUZ- ZM100YKA	PUZ- ZM125VKA	PUZ- ZM125YKA	PUZ- ZM140VKA	PUZ- ZM140YKA
Refrigera	int							R3	2*1				
Power	Source							Outdoor po	wer supply				
Supply	Outdoor (V/Phase	/Hz)					VKA • VH	A:230 / Single /	50, YKA:400 / 1	hree / 50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0
	Total Input	Rated	kW	0.829	1.250	1.521	1.829	2.317	2.317	3.846	3.846	3.941	3.941
	EER			4.34	4.00	4.01	3.88	4.10	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*4	•		6.4	6.7	6.5	6.7	6.4	6.3	-	-	-	-
		<b>Energy Efficiency Class</b>		A++	A++	A++	A++	A++	A++	-	-	-	-
leating Average Season)	Capacity	Rated	kW	4.1	5.5	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
(Average		Min - Max	kW	1.6-5.2	2.5 - 6.6	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Season)	Total Input	Rated	kW	1.019	1.361	1.745	2.156	3.018	3.018	3.954	3.954	4.432	4.432
	COP			4.02	4.04	4.01	3.71	3.71	3.71	3.54	3.54	3.61	3.61
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	Design Load		kW	2.4	3.8	4.4	4.7	7.8	7.8	-	-	-	-
	Declared Capacity	at reference design temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	-	-	-	-
		at bivalent temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	-	-	-	-
		at operation limit temperature	kW	2.2 (-11°C)	3.7 (-11°C)	2.8 (-20°C)	3.5 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	-	-	-	-
	Back Up Heating C		kW	0	0	0	0	0	0	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	839	1265	1499	1563	2539	2539	-	-	-	-
	SCOP*4	F F(() : 0)		4.0 A+	4.2 A+	4.1 A+	4.2 A+	4.3 A+	4.3 A+	-	-	-	-
<u> </u>		Energy Efficiency Class					19.4	27.2	8.7	27.3	- 10.3	28.9	- 13.9
Operatin Indoor	g Current (max)	Rated	A kW	13.3 0.04	13.4 0.05	19.4 0.06	0.06	0.09	0.09	0.11	0.11	0.14	0.14
Indoor Unit	Input Operating Current		A	0.04	0.05	0.06	0.06	0.65	0.65	0.76	0.11	0.14	0.14
onnt	Dimensions <panel></panel>		mm	230 - 96			80 - 680	0.05	0.05		0.76	0.90	0.90
	Weight <panel></panel>	H X W X D	ka	230 - 96	26	32	32	37	37	230 - 16	38	40	40
	Air Volume [Lo-Mi2		m <sup>3</sup> /min								23-25-27-29		
	Sound Level (SPL)		dB(A)	31-33-36-39	32-34-37-40	33-35-37-40	35-37-39-41	37-39-41-43	37-39-41-43	39-41-43-45	39-41-43-45	11-13-15-18	11-13-15-1
	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	46	70	70	116	123	1116	125	118	131
	Air Volume	Coolina	m <sup>3</sup> /min	45	45	55	55	110	110	120	120	120	120
		Heating	m <sup>3</sup> /min	45	45	55	55	110	110	120	120	120	120
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	49	49	50	50	50	50
		Heating	dB(A)	46	46	49	49	51	51	52	52	52	52
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	69	69	70	70	70	70
	<b>Operating Current</b>	(max)	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
	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
		Out-In	m	50	50	55	55	100	100	100	100	100	100
	Max. Length												
Piping	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Ext. Piping Guarante	Max. Height ed Operating Range			30 -15 ~ +46 -11 ~ +21	30 -15 ~ +46 -11 ~ +21	30 -15 ~ +46 -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 CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or diassemble the product yourself and always ask a professional. The GWP fi32 is 675 in the IPCC 4th Assessment Report. \*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located. \*3 Optional air protection guide is required where ambient temperature is lower than -5°C. \*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

		Demand Control	Pure White		esh-air Intako	Hancy Long Life	Check!	High Ceiling	Low Ceiling			Auto Restart	Temp Silent
	M KA SERIES	60-140/200250 Ampere Limit	Rotation Back-up		Group Control	Wi-Fi )) Interface	СОМРО	NZ nection	Wiring Reuse	Drain Lift Up Dow		Self Diagnosis	lure call
Туре			Optional	Optimi	Opional	Opiona		Inverter H	leat Pump	opional			
Indoor U	nit			PCA- M35KA	PCA- M50KA	PCA- M60KA	PCA- M71KA	PCA-N	1100KA	PCA-N	1125KA	PCA-M	1140KA
Outdoor	Unit			SUZ- M35VA	SUZ- M50VA	SUZ- M60VA	SUZ- M71VA	PUZ- M100VKA	PUZ- M100YKA	PUZ- M125VKA	PUZ- M125YKA	PUZ- M140VKA	PUZ- M140YKA
Refrigera	nt			NIGOVA	11100111	11100171			2* <sup>1</sup>				
Power	Source							Outdoor po	ower supply				
Supply	Outdoor (V/Phase	e/Hz)					VA • VK	A:230 / Single / !	50, YKA:400 / T	hree / 50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4
		Min - Max	kW	0.8 - 3.9	1.5 - 5.6	1.6 - 6.3	2.2 - 8.1	4.0 - 10.6	4.0 - 10.6	5.7 - 13.0	5.7 - 13.0	5.7 - 14.1	5.7 - 14.1
	Total Input	Rated	kW	0.90	1.51	1.64	1.97	2.94	2.94	4.01	4.01	5.36	5.36
	EER			4.00	3.30	3.70	3.60	3.23	3.23	3.01	3.01	2.50	2.50
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	Design Load	• * * 2	kW kWh/a	3.6 198	5.0 291	6.1 333	7.1	9.5 552	9.5 552	12.1	12.1	13.4	13.4
	Annual Electricity SEER*4	Consumption	KVVN/a	6.3	6.0	6.4	6.5	6.0	6.0	-	-	-	
	SEER	Energy Efficiency Class		0.3 A++	A+	0.4 Д++	0.5 A++	0.0 A+	0.0 A+	-	-	-	-
Heating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	13.5	13.5	15.0	15.0
(Average	oupdoity	Min - Max	kW	1.0 - 5.0	1.5 - 7.2	1.6 - 8.0	2.0 - 10.2	2.8 - 12.5	2.8 - 12.5	4.1 - 15.0	4.1 - 15.0	4.2 - 15.8	4.2 - 15.8
Season)	Total Input	Rated	kW	1.02	1.61	1.75	2.21	3.28	3.28	3.95	3.95	4.28	4.28
	COP	Hatoa		4.00	3.71	4.00	3.61	3.41	3.41	3.41	3.41	3.50	3.50
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	Design Load		kW	2.6	4.3	4.6	5.8	8.0	8.0	8.5	8.5	9.4	9.4
		at reference design temperature	e kW	2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)	6.0 (-10°C)	6.0 (-10°C)	8.5 (-10°C)	8.5 (-10°C)	9.4 (-10°C)	9.4 (-10°C)
		at bivalent temperature	kW	2.3 (-7°C)	3.8 (-7°C)	4.1 (-7°C)	5.2 (-7°C)	7.0 (-7°C)	7.0 (-7°C)	8.5 (-10°C)	8.5 (-10°C)	9.4 (-10°C)	9.4 (-10°C)
		at operation limit temperature		2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)	4.5 (-15°C)	4.5 (–15°C)	6.0 (-15°C)	6.0 (-15°C)	7.0 (–15°C)	7.0 (–15°C)
	Back Up Heating (		kW	0.3	0.5	0.5	0.6	2.0	2.0	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	909	1456	1555	1971	2719	2719	-	-	-	-
	SCOP*4			4.0	4.1	4.1	4.1	4.1	4.1	-	-	-	-
		Energy Efficiency Class		A+	A+	A+	A+	A+	A+	-	-	-	-
	g Current (max)	Detect.	A	8.8	13.9	15.2	15.2	20.7	12.2	27.3	12.3	30.9	12.4
Indoor Unit	Input Operating Current	Rated	kW	0.04	0.05	0.06	0.06	0.09	0.09	0.11	0.11	0.14	0.14
Unit	Dimensions <panel></panel>		mm		0.37 60 - 680		80 - 680	0.05	0.05		0.76 00 - 680	0.90	0.90
	Weight <panel></panel>	11.2.0.2.0	ka	25	26	32	32	37	37	38	38	40	40
	Air Volume [Lo-Mi	2_Mi1_Hil	m <sup>3</sup> /min					22-24-26-28					
	Sound Level (SPL		dB(A)	31-33-36-39				1 37-39-41-43					
	Sound Level (PWL		dB(A)	60	60	60	62	63	63	65	65	68	68
Outdoor	Dimensions	H×W×D	mm	550 - 800 - 285	714 - 800 - 285	880 - 8	40 - 330			981 - 1050	- 330 (+40)		
Unit	Weight	<u> </u>	kg	35	41	54	55	76	78	84	85	84	85
	Air Volume	Cooling	m³/min	34.3	45.8	50.1	50.1	79.0	79.0	86.0	86.0	86.0	86.0
		Heating	m³/min	32.7	43.7	50.1	50.1	79.0	79.0	92.0	92.0	92.0	92.0
	Sound Level (SPL)		dB(A)	48	48	49	49	51	51	54	54	55	55
	L	Heating	dB(A)	48	49	51	51	54	54	56	56	57	57
	Sound Level (PWL)		dB(A)	59	64	65	66	70	70	72	72	73	73
	Operating Current	t (max)	A	8.5	13.5	14.8	14.8	20.0	11.5	26.5	11.5	30.0	11.5
Ext.	Breaker Size Diameter	Liquid / Coo	A	10 6.35 / 9.52	20	20 6.35 / 15.88	20		16 9.52 / 15.88	32 9.52 / 15.88	16 9.52 / 15.88	40	16 9.52 / 15.88
Ext. Piping	Max. Length	Liquid / Gas Out-In	mm	20	30	30	30	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52/15.88	9.52 / 15.88
· ·pmg	Max. Height	Out-In	m	12	30	30	30	30	30	30	30	30	30
Guarante	ed Operating Range		°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 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21
*4 D ( !				54 A				A 1 1 1 1 1 1 1 1 1					TTL 1 11

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

										Outd	oor Ui	nit Cap	pacity								
Indoor	Indoor Unit Combination				Fo	or Sing	gle						For	Twin			F	or Trip	le	For Qua	adruple
				60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Power Inverter (PUHZ-ZRP)			60x1	71x1	100x1	125x1	140x1	-	-	35x2	50×2	60x2	71x2	100×2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe		-	-	-	-	-	-	-	-	-	MSE	D-50	ΓR-E	MSDD-	50WR-E	MS	DT-111	1R-E	MSDF-1	1111R-E
Standa	Standard Inverter (PUHZ-P&SUZ)		50x1	60x1	71x1	100x1	125x1	140x1	-	-	-	50×2	60x2	71x2	100×2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	MS	DD-50	TR-E	MSDD-	50WR-E	MS	DT-111	1R-E	MSDF-1	1111R-E

	Demand Control Optional		Lintake	Long Life Check!	SWING Ceiling		Cooling Sil	ilent (S
PCA-M KA SERIES POWER INVERTER	Ampere Limit Rotation Optional	Gro Con Optional	up trol M-NET connection Optional	Wi-Fi )) Interface		Wiring Reuse Optional Optional	Pump Down Connection Set Recall	

lype								Inverter H	eat Pump				
Indoor Ur	nit			PCA- M35KA	PCA- M50KA	PCA- M60KA	PCA- M71KA	PCA-M	100KA	PCA-N	1125KA	PCA-N	140KA
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				
Power	Source							Outdoor po	wer supply				
Supply	Outdoor (V/Phase	e/Hz)					VKA • VH	A:230 / Single /	50, YKA:400 / T	hree / 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
oconing	oupuony	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	Hatoa	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*4	Concemption	1	6.2	6.1	6.2	6.7	6.1	6.0	-	-	-	-
		Energy Efficiency Class		A++	A++	A++	A++	A++	A+	-	-	-	-
Heating	Capacity	Rated	kW	4.1	5.5	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
(Average		Min - Max	kW	1.6 - 5.2	2.5 - 6.6	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Season)	Total Input	Rated	kW	1.02	1.45	1.93	2.20	3.04	3.04	3.80	3.80	4.57	4.57
	COP			4.02	3.79	3.63	3.64	3.68	3.68	3.68	3.68	3.50	3.50
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	Design Load	•	kW	2.4	3.8	4.4	4.7	7.8	7.8	-	-	-	-
	Declared Capacity	at reference design temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	-	-	-	-
		at bivalent temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (–10°C)	7.8 (-10°C)	-	-	-	-
		at operation limit temperature	kW	2.2 (-11°C)	3.7 (-11°C)	2.8 (-20°C)	3.5 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	-	-	-	-
	Back Up Heating (		kW	0	0	0	0	0	0	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	815	1257	1458	1519	2837	2837	-	-	-	-
	SCOP*4			4.1	4.2	4.3	4.3	3.9	3.9	-	-	-	-
		Energy Efficiency Class		A+	A+	A+	A+	A	A	-	-	-	-
	g Current (max)		A	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	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76	0.90	0.90
	Dimensions <panel></panel>	H × W × D	mm	230 - 96			80 - 680				00 - 680		
	Weight <panel></panel>		kg	25	26	32	32	37	37	38	38	40	40
	Air Volume [Lo-Mi		m <sup>3</sup> /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		dB(A)				35-37-39-41						
0.41	Sound Level (PWL	-) H×W×D	dB(A)	60	60	60	62	63	63	65	65	68	68
Unit	Dimensions	IH X W X D	mm kg	630 - 80 43	46	943 - 950	- 330 (+30) 70	116	123	1338 - 1050	) - 330 (+40) 125	118	131
Unit	Weight		кg m <sup>3</sup> /min	43	46	55	55	110	123	120	125	118	120
	Air Volume	Cooling Heating	m <sup>3</sup> /min	45	45	55	55	110	110	120	120	120	120
	Sound Level (SPL)		dB(A)	45	45	47	47	49	49	50	50	50	50
	Sound Level (SPL)	Cooling Heating	dB(A)	44	44	47	47	51	51	50	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	50	50	75	75	75	75	75	75
	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Guarante	ed Operating Range		°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
[Outdoor]		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21
** 5 41							1			-	014/02/21		

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PCA-M KA SERIES	Demand Control Optional	Pure White ৡ	AUTO VANE	Fresh-air Intake	High-efficiency	Long Life	Check!	SWING	High Ceiling	Low Ceiling	SAUTO		Ç≑Ö Aco	<b>4</b> Auto Restart	Low Temp Cooling	Silent Silent
PLA-MINA SERIES STANDARD INVERTER	PUHZ Rotation Back-up		Group Control	Group Control		Wi-Fi )) Interface	СОМРО	MXZ	Cleaning-free,	Wiring Reuse	Drain Lift Up	Pump Down	Flare connection		Failure Recal	

Туре								Inverter H	leat Pump				
Indoor U	nit			PCA-M35KA	PCA-M50KA	PCA-M60KA	PCA-M71KA	PCA-M	1100KA	PCA-N	1125KA	PCA-N	/140KA
Outdoor	Unit			SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6	SUZ-KA71VA6	PUHZ-P100VKA	PUHZ-P100YKA	PUHZ-P125VKA	PUHZ-P125YKA	PUHZ-P140VKA	PUHZ-P140YKA
Refrigera	ant							R41	0A*1	1			1
Power	Source							Outdoor po	ower supply				
Supply	Outdoor (V/Phase	/Hz)					VA • VKA	A:230 / Single / Sing	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
		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			3.43	3.23	3.31	3.45	3.08	3.08	2.85	2.85	2.41	2.41
		EEL Rank		-	-	-	-	-	-	-	-	-	-
	Design Load		kW	3.6	5.0	5.7	7.1	9.4	9.4	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	209	296	325	409	586	586	-	-	-	-
	SEER*4			6.0	5.8	6.1	6.0	5.6	5.6	-	-	-	-
		Energy Efficiency Class		A+	A+	A++	A+	A+	A+	-	-	-	-
Heating	Capacity	Rated	kW	4.1	5.5	6.9	7.9	11.2	11.2	13.5	13.5	15.0	15.0
(Average		Min - Max	kW	1.7 - 5.0	1.7 - 6.6	2.5 - 8.0	2.6 - 10.2	2.8 - 12.5	2.8 - 12.5	4.8 - 15.0	4.8 - 15.0	4.9 - 15.8	4.9 - 15.8
Season)	Total Input	Rated	kW	1.050	1.520	1.910	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	1 1 1 4 /	- 2.6	- 4.0	-	- 5.8	-	-	-	-	-	-
	Design Load	at reference design temperature	kW kW	2.3 (-10°C)	4.0 3.6 (–10°C)	4.8 4.0 (-10°C)	5.8 5.2 (–10°C)	8.0 6.0 (-10°C)	8.0 6.0 (-10°C)	-	-	-	-
	Declared Capacity	at reference design temperature at bivalent temperature	kW kW	2.3 (-7°C)	3.6 (-7°C)	4.0 (-10°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 C	acoperation nimit temperature	kW	0.3	0.4	0.8	0.6	2.0	2.0	_	-	-	-
	Annual Electricity		kWh/a	887	1398	1678	2028	2726	2726	_		_	
	SCOP*4	oonsumption	[KVVII/G	4.1	4.0	4.0	4.3	4.1	4.1	-	_	-	-
		Energy Efficiency Class		A <sup>+</sup>	A <sup>+</sup>	A+	A+	A+	A+	-	-	-	-
Operatin	ng Current (max)		A	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	(max)	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		60-680		80-680				680-680		
	Weight <panel></panel>		kg	25	26	32	32	37	37	38	38	40	40
	Air Volume [Lo-Mi2		m <sup>3</sup> /min		10-11-13-15		16-17-18-20						
	Sound Level (SPL)		dB(A)		32-34-37-40		35-37-39-41						
	Sound Level (PWL		dB(A)	60	60	60	62	63	63	65	65	68	68
		H × W × D	mm	550 - 800 - 285		880 - 840 - 330				981 - 10			
Unit	Weight		kg	35	54	50	53	76	78	84	85	84	85
	Air Volume	Cooling	m <sup>3</sup> /min	36.3	44.6 44.6	40.9 49.2	50.1 48.2	79 79	79 79	86 92	86 92	86	86 92
	Sound Lough (CDL)	Heating	m <sup>3</sup> /min	34.8 49	44.6 52							92	92
	Sound Level (SPL)	Heating	dB(A) dB(A)	49	52	55 55	55 55	51 54	51 54	54 56	54 56	56 57	50
	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
		(mus)	A	10	20	20	20	32	16	32	16	40	16
	Breaker Size				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
Ext.	Breaker Size Diameter	Liquid / Gas	mm	6.35/9.52									
Ext. Piping	Diameter	Liquid / Gas Out-In	mm m	6.35 / 9.52 20	30					50		50	50
	Diameter Max. Length	Out-In		6.35 / 9.52 20 12		30	30 30	50	50 30	50 30	50 30	50 30	50 30
Piping	Diameter Max. Length Max. Height	Out-In Out-In	m	20	30	30	30	50	50		50		
Piping	Diameter Max. Length Max. Height ed Operating Range	Out-In	m m	20 12	30 30	30 30	30 30	50 30	50 30	30	50 30	30	30

 A reingerant leakage contributes to Clinicate change. Reingerant with lower global warming potential (SWP) would controller less to global (SWP) would (SWP) would controller less to global (SWP) would contro ct on global warming would be 1975 times higher than 1 kg of CO2, over a pe



### Tough on Oily Smoke

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

### High-performance Oil Mist Filter

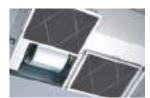
A high-performance heavy-duty oil mist filter is included as standard equipment. The filtering system is more efficient than conventional filters, thereby effectively reducing the oily smoke entering the air conditioner. The filter is disposable, thereby enabling trouble-free cleaning and maintenance.

### Oil Mist Filter Cleaning

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



Oil mist filter



Pull the handle to easily slide the filter out

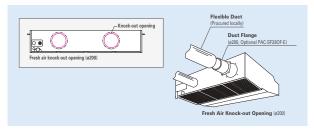
### Easy Maintenance – Even for Cleaning the Fan

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



### Fresh Outside-air Intake (Option)

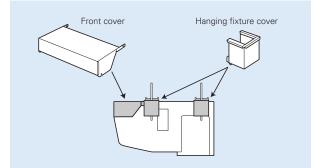
There is a knock-out opening on the rear panel of the unit that can be used to bring fresh air into the unit. This helps to improve ventilation and make the kitchen comfortable.



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.



	SERIES SELECTION														
Power Inverter Series		Inverter	Vector Sine Wave	100-250 DC Scroll	DC Fan Motor	Vector-Wave	PAM	Power Receiver	Crooved Piping						
Indoor Unit	Outdoor Unit				Re	emote (	Contro	ller							
R32	<b>R32</b>														
R410A	For Single		PUZ-ZM7	1		192			cin.						
	<b>R32</b>		0	15	1	Optional	C	Optional	Optional						
PCA-M71HA	For Multi (Twin/Triple)		PUZ-ZM140	0/250											

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

									Outd	oor Ui	nit Cap	pacity								
Indoor Unit Combination				Fo	or Sing	le						For	Twin			F	orTrip	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 Inverter (PUZ-ZM)	-	-	-	71x1	-	-	-	-	-	-	-	-	71x2	-	-	-	-	71x3	-	-
Distribution Pipe	-	-	-	-	-	-	-	-	-	-	-	-	MSDD- 50TR2-E	-	-	-	-	MSDT- 111R3-E	-	-

SERIES SELECTION														
Power Inverter Series		Inverter	Joint Lap	Vector Sine Wave	DC Scrol	DC Fan Motor	Vector-Wave	PAM	Power Receiver	Grooved Piping				
Indoor Unit	Outdoor Unit				_	Re	emote	Contro	ller					
<b>R32</b>	(R410A)		- 1	100										
(R410A)	For Single		F	PUHZ-ZRF	271		101		63					
	(R410A)			0	-		Optional	C	Optional	Optional				
PCA-M71HA	For Multi (Twin/Triple)		- 1	0										
			PL	JHZ-ZRP1	40/250									

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

										Outd	oor Ui	nit Cap	pacity								
Indoor	Unit Combination				Fo	or Sing	le						For	Twin			F	orTrip	le	For Qu	adruple
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Power Inverter (PUHZ-ZRP)		-	-	71x1	-	-	-	-	-	-	-	-	71x2	-	-	-	-	71x3	-	-
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	-	-	MSDD-50TR-E	-	-	-	-	MSDT-111R-E	-	-



lype				Inverter	Heat Pump
Indoor U	Init			PCA-	M71HA
Outdoor	Unit			PUHZ-ZRP71VHA2	PUZ-ZM71VHA
Refrigera				R410A DX*1	R32 DX*1
	Source				nover supply
	Outdoor (V/Phase	/Hz)		230 / 5	single / 50
		Rated	kW	7.1	7.1
Cooling	Capacity	Min - Max	kW	3.3 - 8.1	3.3 - 8.1
	Trank				2.02
	Total Input EER	Rated	kW	2.17	
	EER	EEL Rank			-
	Design Load	EEL Rank	kW	7.1	7.1
	Annual Electricity	<b>C</b>	kWh/a	447	444
	SEER*4	Consumption	KVVn/a	5.6	5.6
	SEER	Energy Efficiency Class		5.6 A+	5.6 A+
11	Compatibu	Rated	kW	76	7.6
Heating (Average	Capacity	Min - Max	kW kW	3.5 - 10.2	3.5 - 10.2
Season)	Total Input	Rated	kW	2.35	2.17
ocusonij	COP	nateu	KVV	-	-
	COP	EEL Rank		-	-
	Design Load		l kW	4.7	4.7
		at reference design temperature		4.7	4.7
	Deciareu Capacity	at bivalent temperature	kW	4.7	4.7
		at operation limit temperature	kW	3.5	3.7
	Back Up Heating C		kW	0.0	0.0
	Annual Electricity		kWh/a	1751	1673
	SCOP*4	consumption	K VVII/a	3.8	3.9
	00001	Energy Efficiency Class		A	A
Operatir	ng Current (max)	Lifely Lifelency eldee			9.4
Indoor	Input	Rated	kW		0.10
Unit	Operating Current		A		0.43
	Dimensions <panel></panel>		mm		136 - 650
	Weight <panel></panel>		kg		42
	Air Volume [Lo-Hi]		m <sup>3</sup> /min		5 - 18
	Sound Level (SPL)	[Lo-Hi]	dB(A)	37	7 - 39
	Sound Level (PWL		dB(A)		57
Outdoor	r Dimensions	H × W × D	mm	943 - 950 - 330 (+30)	943 - 950 - 330 (+25)
Unit	Weight		kg	70	70
	Air Volume	Cooling	m <sup>3</sup> /min	55.0	55.0
		Heating	m <sup>3</sup> /min	55.0	55.0
	Sound Level (SPL)		dB(A)	47	47
		Heating	dB(A)	48	49
	Sound Level (PWL)	Cooling	dB(A)	67	67
	<b>Operating Current</b>		A	19.0	19.0
	Breaker Size		A	25	25
Ext.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88
Piping	Max. Length	Out-In	m	50	55
				30	30
	Max. Height	Out-In	m		
	Max. Height eed Operating Range	Out-In Cooling* <sup>3</sup> Heating	°C °C	30 -15 ~ +46 -20 ~ +21	

11 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of At10A 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 is protection guide is required where ambient temperature is lower than -5°C.
\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

PCA-M HA SERIES	Demand Control Voront	ning-iree, per reuse
POWER INVERTER	Wiring Reuse Connection Fair Connection Failure Recall	

Index         PCAM01HA           Outdoo Urber         PUH2 ZP071VHA2           Raftgarm         Raftgard           Supply         Outdoo (VPPse/Hz)         Outdoo (VP           Supply         Mod         NM           Supply         Mod         NM           Forla Input         Raftgard         23/ 50           Forla Input         Raftgard         NM           Forla Input         Raftgard         NM           Forla Input         Raftgard         NM           Forla Input         Raftgard         NM         3.3           Forla Input         Raftgard         NM         3.4           Forla Input         Raftgard         NM         7.1           Forla Input         Raftgard         NM         7.1           Forla Input         Raftgard         NM         7.6           Forla Input         Raftgard         NM         7.6 <t< th=""><th>Туре</th><th></th><th></th><th></th><th>Inverter Heat Pump</th></t<>	Туре				Inverter Heat Pump
Befrageration         Ref JDA2 <sup>1</sup> Supply         Outdoor (V/Phas/H2)         Collidor power supply           Supply         fatad         WV           Total Input         Rated         WV           Total Input         Rated         WV           Being Load         WV         217           Annual Electricity Consumption*1         WW         217           Annual Electricity Consumption*2         WW         217           Annual Electricity Consumption*1         WW         217           Annual Electricity Consumption*2         WW         3.8.1           Genery         Filterev Class         447           Stepsin         At*         200           Besting Load         WV         2.85           Filt Input         Rated         WV           Besting Load         WV         2.85           Filt Input         Rated         WV           Besting Load         WV         2.85           Filt Input         Rated         WV           Besting Load         WV         4.71-10°C)           Bask Up Hasting Condition Engeneration Engenerati	Indoor Un	it		_	PCA-M71HA
Refrigent         Private         Outdoor (V/Phas/Hz)         Outdoor power supply           Supply         Quidoor (V/Phas/Hz)         230 (Single / 50           Coling         Capacity         Reted         KW           Tatal Input         Reted         KW         3.3 - 8.1           Testing Consumption**         KW         2.17           Pesign Load         KW         2.17           Annual Electricity Consumption**         WMa         3.4           SER*         5.6	Outdoor l	Jnit			PUHZ-ZBPZ1VHA2
Power power         Source         Outdoor power supply           Cooling Apply         Capacity         Rated         KV           Cooling Apply         Capacity         Rated         KV           Total input         Rated         KV         217           Total input         Rated         KV         217           Design Load         Acad         217           Design Load         KW         217           Design Load         Energy Efficiency Class         Acad           Cooling         Mini-Max         KW         3.5-8.10           SEER**         Energy Efficiency Class         Acad           Cool         Energy Efficiency Class         Acad           Cool         Ele Rank         3.5-10.2           Cool         Ele Rank         7.0           Cool         Ele Rank         7.0           Design Load         Inviewantal         KW         3.5-10.2           Cool         Ele Rank         7.0         7.0           Design Load         Inviewantal         KW         4.7 L00°C           Cool         Total input         Rade desolvity Reded         KW           Design Load         Ele Rank         7.2 L0°C					
Supply         Outdoor (V/Phas/Hz)         230 Single / 50°           Cooling         Capeiry         Raded         KW         3.3 - 8.1           Total Input         Raded         KW         3.2 - 8.1           Total Input         Raded         KW         7.1           Annual Electricity Consumption*1         KW         7.1           Annual Electricity Consumption*2         KW         7.1           Consumption*2         Raded         KW         7.1           Consumption*3         KW         3.5 - 10.2         7.1           Consumption*4         KW         3.5 - 10.2         7.1           Consumption*3         KW         3.5 - 10.2         7.1           Consumption*4         KW         3.5 - 10.2         7.1           Consumption*3         KW         3.5 - 10.2         7.1           Consumption*4         KW         3.5 - 10.2         7.1           Consumption*5					
Cooling         Capacity         Rated         WV         71           Total Input         Rated         WV         0.3 - 8.1           Total Input         Rated         WV         0.17           Ending         EEL Rank         -         -           Pesign Load         WV         0.17         -           Annual Electricity Consumption**1         WW/w         0.1         -           Keerage         Min - Max         WV         0.3 - 10.2         -           Sesson         FEL Rank         -         -         -           Design Load         WV         0.4 - 7         -         -           Back Up Heating Capacity         WW         0.4 - 7         -         -           Copering Libracity Consumption**         WW         0.4 - 7         -         -           Back Up Heating Capacity         WW         0.4 - 7         -         -           Coperating Coment (max)         A         0.4 - 7			/Hz)		230 / Single / 50
Total Input         Min. Max         WV         3.3 - 8.1           For all input         Rated         WV         2.17           EER         -         -           Design Load         NV         7.1           Annual Electricity Consumption**         WV         7.1           SEER**         Energy Efficiency Class         4.1           For all input         Rated         WV         7.6           Min. Max         WV         7.6         7.6           COP         7.6         7.6         7.6           COP         7.6         7.6         7.6           COP         7.7         7.6         7.6           COP         7.7         7.6         7.6           COP         7.7         7.6         7.6           COP         7.7         7.7         7.6           COP         7.7         7.7         7.7           Design Load         WV         3.5         7.0           Annual Electricity Consumption**         WV         4.7         7.6           Annual Electricity Consumption**         WV         4.7         7.6           Annual Electricity Consumption**         WV         4.7				L/V/	
Total Input         Pated         WW         2.17           ER	Cooling	Capacity			
EER         -         -           Design Load         KWV         7.           Annual Electricity Consumption*2         KWV/a         647           SER***         5.6           SER***         6           Capacity         Fated         KW           Sesson         7.           Capacity         Fated         KW           Sesson         7.         6           Cope         7.         7.           Design Load         KW         4.7           Desing Copertic (		Total Input			
Image: Section 1         FEL Rank         -           Design Load         KW         7.1           Annual Electricity Consumption*1         KW/ha         447           SERF**         -         5.6           Heating Capacity         Rated         KW         7.6           Min - Max         KW         7.0           Cope         Ele Rank         7.1           Design Load         KW         7.0           Cop         Ele Rank         -           Cop         Ele Rank         -           Design Load         KW         7.1           Design Load         KW         4.7           Desing Load			Inateu	KVV	
Design Load         NW         71           Annual Electricity Consumption*2         NWN/a         447           SEER**         5.6           (Average Seeson)         Min - Max         KW           Total Input         Rated         KW           Design Load         KW         3.5 - 10.2           Total Input         Rated         KW           Design Load         KW         3.5 - 10.2           Total Input         Rated         KW           Design Load         KW         2.35           Total Input         Rated         KW           Declared Capacity         Intelementation KW         4.7           Declared Capacity         Intelementation KW         4.7           Declared Capacity         KW         4.7           Back Up Heating Capacity         KW         3.6 - 20°C)           Back Up Heating Dappety         KW         3.6 - 20°C)           SCOP**         Energy Efficiency Class         A           Operating Current (max)         A         4.0           Dimensions Amael H. KW X D         mm         2.00.1136 - 650           Weight Amael         KW         0.09           Unit         Dimensions Amael Heating         Mi		CCN	EEL Bank		
Annual Electricity Consumption*2         WW/a         447           Server         Energy Efficiency Class         A+           Heating (Average         Capacity         Rated         WV         3.5         10.2           Season         Total Input         Rated         WV         2.35         Core           Operating Care Capacity         Rated         WV         2.35         Core         -           Design Load         EEU W         4.7         -         -           Design Load         KW         4.7         -         -           Design Load         KW         4.7         -         -           Design Load         KW         4.7         -         -           Back Up Heating Capacity         KW         4.7         -         -           Annual Electricity Consumption*2         KW/W         3.5         -         -           Group         It bildent Interpreture         KW         4.7         -         -           Back Up Heating Capacity         KW         4.7         -         -         -           Group         It bildent Interpreture         KW         0         -         -         -           Operating Curren		Decign Load		1 kW	
SEER**         Energy Efficiency Class         A+           Heating (Average Seeson)         Rated         KW         76           Seeson)         Total Input         Rated         KW         35.10.2           Total Input         Rated         KW         2.35           Total Input         Rated         KW         2.35           Deciared Capacity         at detence design temperature         KW         4.7           Deciared Capacity         at detence design temperature         KW         4.7           Deciared Capacity         at detence design temperature         KW         3.6           Back Up Heating Capacity         KW         3.6         3.6           Coperting Current (max)         A         7.6         3.8           Googet Consumption**         A         0.43         3.6           Digit cPaneb         kg         4.1         4.3           Vioume [Lo-H]         mm         2.050-1336.650         3.6           Dift consumption**         kg         4.1         3.4           Operating Current (max)         A         0.43         3.6           Dift consumption**         kg         4.1         3.6           Outdoor         Dimensions Paneb [H × W		Annual Flectricity	Consumption*2		
Image: Construct of the second seco		SFFR*4	oonsumption	IK VII/G	
Heating       Capacity       Rated       KW       76         Sesson       Total Input       Rated       KW       3.5 : 10.2         Sesson       Total Input       Rated       KW       2.35         Operating       FEL Rank       -       -         Declared Capacity       at reference design temperature at bosent temperature tableant temper		OLLIN	Energy Efficiency Class		
Chorenge Season         Min Max         WV         3.5 - 10.2           Season         Total Input         Rated         WV         2.35           COP         -         -         -           Design Load         WV         4.7         -           Declared Capacity         It defense design temperature it operation limit temperature it operation limit temperature it operation limit temperature is operatis operature is operation limitemeratemperature is ope	Heating	Canacity		kW.	
Cop         Cos         -           Design Load         -         -           Design Load         KW         4.7           Declared Capacity         at before daign temperature         KW         4.7 (-10°C)           at operation         at operation         KW         4.7 (-10°C)           at operation         Galacient temperature         KW         4.7 (-10°C)           Back Up Heating Capacity         KW         4.7 (-10°C)           Back Up Heating Capacity         KW         0           Annual Electricity Consumption*2         KW         0           ScOp**         Energy Efficiency Class         3.8           Operating Current (max)         A         0.43           Indoor         Ipput         Rated         KW           Unit         Operating Current (max)         A         0.43           Air Volume (Lo+H)         m*/min         17 - 19         3.4           Sound Level (PWL)         dB(A)         34 - 38         3.6           Yoldrow         Meaning m*/min         17 - 19         3.6           Sound Level (PWL)         dB(A)         34 - 38         56.0           Yoldrow         Heating m*/min         55.0         50.0 <tr< th=""><th>(Average</th><th>oupdoity</th><th></th><th></th><th></th></tr<>	(Average	oupdoity			
Cop         Cos         -           Design Load         -         -           Design Load         KW         4.7           Declared Capacity         at before daign temperature         KW         4.7 (-10°C)           at operation         at operation         KW         4.7 (-10°C)           at operation         Galacient temperature         KW         4.7 (-10°C)           Back Up Heating Capacity         KW         4.7 (-10°C)           Back Up Heating Capacity         KW         0           Annual Electricity Consumption*2         KW         0           ScOp**         Energy Efficiency Class         3.8           Operating Current (max)         A         0.43           Indoor         Ipput         Rated         KW           Unit         Operating Current (max)         A         0.43           Air Volume (Lo+H)         m*/min         17 - 19         3.4           Sound Level (PWL)         dB(A)         34 - 38         3.6           Yoldrow         Meaning m*/min         17 - 19         3.6           Sound Level (PWL)         dB(A)         34 - 38         56.0           Yoldrow         Heating m*/min         55.0         50.0 <tr< th=""><th>Season)</th><th>Total Input</th><th></th><th></th><th></th></tr<>	Season)	Total Input			
Image: Provide and Provided Provid		COP	Hatoa		
Design Load         KW         4.7           Declared Capacity at balent temperature         kW         4.7 (-10°C) at operaton limit temperature         kW           Back Up Heating Capacity at operation limit temperature         kW         3.5 (-20°C)           Back Up Heating Capacity at Operating Capacity         kW         0           Annual Electricity Consumption*2         kW/w         0           Annual Electricity Consumption*2         kW/w         0           Score**         3.8         3.8           Deparating Current (max)         A         0.93           Indoor         Input         Rated         kW           Unit         Operating Current (max)         A         0.43           Dimensions ePanels         H x W x D         mm         2200-1136-650           Weight ePanels         kg         41         41           Air Volume [LoHi]         m/min         17 - 19         50           Sound Level (SPL) [LoHi]         dB(A)         56         50           Unit         Weight         kg         70           Air Volume [LoHi]         m/min         55.0           Sound Level (SPL) [Cooling         dB(A)         48           Sound Level (SPL) [Cooling         dB(A)			EEL Bank		_
Index         It builent temperature at operation limit temperature to at operatemperature to at operation limit temperature to at operation lim		Design Load		kW	4.7
Index         It builent temperature at operation limit temperature to at operate limit temperature to at operate limit temperature to at operat		<b>Declared Capacity</b>	at reference design temperature	kW	4.7 (–10°C)
Index         Instrume         Instrume <thinstrume< th=""> <thinstrume< th=""> <thi< th=""><th></th><th></th><th></th><th></th><th></th></thi<></thinstrume<></thinstrume<>					
Annual Electrieity Consumption*2         KWh/a         1751           SCOP*4         3.8         3.8           Operating Current (max)         A         9.4           Indoor         19.4         0.09           Unit         Operating Current (max)         A           Operating Current (max)         A         0.09           Unit         Operating Current (max)         A           Vinit         Meight <paneb< td="">         kg           Air Volume [Lo-Hi]         m*/min         17 - 19           Sound Level (PWL)         dB(A)         34 - 38           Sound Level (PWL)         dB(A)         34 - 38           Sound Level (PWL)         dB(A)         65.0           Heating         m*/min         55.0           Sound Level (PWL)         Cooling         m*/min           Air Volume         Cooling         48           Sound Level (PWL)         Cool</paneb<>			at operation limit temperature	kW	
SCOP**         3.8           Dperating Current (max)         A         A           Indoor         Input         Rated         kW           Unit         Operating Current (max)         A         0.09           Unit         Operating Current (max)         A         0.03           Unit         Operating Current (max)         A         0.043           Dimensions <panel> [H × W × D         mm         280-1136-650           Weight <panel>         kg         41           Air Volume [Lo-Hi]         m/min         17 - 19           Sound Level (SPL) [Lo-Hi]         dB(A)         34 - 38           Sound Level (SPL) [Lo-Hi]         dB(A)         56           Outdoor         Dimensions         H × W × D         mm           Weight         Air Volume         Cooling         m/min           Keight         Gooing         dB(A)         65.0           Unit         Cooling         m/min         55.0           Sound Level (SPL)         Cooling         dB(A)         48           Sound Level (SPL)         Cooling         dB(A)         48           Sound Level (WL)         Cooling         dB(A)         48           Sound Level (SPL)</panel></panel>		Back Up Heating (	Capacity	kW	0
Indoor         Energy Efficiency Class         A           Operating Current (max)         A         19.4           Indoor         Input         Rated         kW           Operating Current (max)         A         0.09           Unit         Operating Current (max)         A           Dimensions Qameba H × W × D         mm         0.280-1136-650           Weight Gameba         kg         41           Ar Volume (Lo-Hi)         m/min         17-19           Sound Level (SPL) (Lo-Hi)         dB(A)         34-38           Sound Level (SPL) (Lo-Hi)         dB(A)         36-330 (+30)           Unit         Weight         kg         70           Meight         kg         70           Value         Cooling         m/min           Air Volume         Cooling         m/min           Air Volume         Cooling         m/min           Sound Level (PWL)         Cooling         dB(A)           Air Volume         Cooling         m/min           Biotecter         Kg         70           Air Volume         Cooling         dB(A)           Air Volume         Cooling         dB(A)           Biotecer         A	ĺ	Annual Electricity	Consumption*2	kWh/a	
Operating Current (max)         A         19.4           Indoor         Input         Rated         kW         0.09           Unit         Operating Current (max)         A         0.43           Dimensions 47anel> [H × W × D         mm         280-1136-650           Weight 47anel>         kg         41           Air Volume [Lo-Hi]         m/min         17 - 19           Sound Level (SPL) [Lo-Hi]         dB(A)         34 - 38           Sound Level (SPL) [Lo-Hi]         dB(A)         56           Outdoor         Meight         70           Weight         kg         70           Air Volume         Cooling         m/min           Heating         m/min         55.0           Outdoor         Gooing         dB(A)         48           Sound Level (SPL) Cooling         dB(A)         48           Sound Level (PWL)         Cooling         dB(A)         48           Sound Level (SPL)         Cooling         dB(A)         48           Sound Level (PWL)         Cooling         A         19.0           Perating Current (max)         A         9.52 / 15.88           Piping         Max Length         Out-In         m <tr< th=""><th></th><th>SCOP*4</th><th></th><th></th><th></th></tr<>		SCOP*4			
Indoor         Input         Rated         kW         0.09           Unit         Operating Current (max)         A         0.43           Dimensions Graneb   H × W × D         mm         280-1136-650           Weight Graneb         H × W × D         mm           Air Volume [Lo-Hi]         m <sup>m</sup> /min         17 - 19           Sound Level (SPL) [Lo-Hi]         dB(A)         34 - 38           Sound Level (SPL)         dB(A)         56           Outdoor         Dimensions Graneb         H × W × D         mm           Weight for Volume [Lo-Hi]         dB(A)         56           Outdoor         Dimensions         H × W × D         mm           Value         Kg         70         30 (+30)           Unit         Kr Volume [Lo-Hi]         dB(A)         55.0           Sound Level (PWL)         Cooling         m <sup>M</sup> /min         55.0           Gound Level (PWL)         Cooling         dB(A)         47           Heating         dB(A)         48         30           Sound Level (PWL)         Cooling         dB(A)         48           Sound Level (PWL)         Cooling         dB(A)         48           Breaker Size         A         9.52/15.88			Energy Efficiency Class		
Unit Dimensions          Operating Current (max)         A         0.43           Dimensions          Dimensions          Panels         H × W × D         mm         280-1136-650           Weight          Air         Volume [L0-Hi]         M <sup>2</sup> /m <sup>2</sup> /m <sup>2</sup> 41           Air Volume [L0-Hi]         M <sup>2</sup> /m <sup>2</sup> /m <sup>2</sup> M <sup>2</sup> /m <sup>2</sup> /m <sup>2</sup> /m <sup>2</sup> 41           Sound Level (SPL) [L0-Hi]         M <sup>2</sup> /m					
Dimensions         Panels         Hx W x D         mm         280-1136-650           Weight         41         41         41         41           Air Volume [Lo-Hi]         m <sup>0</sup> /min         17-19         50         41					
Weight = Air Volume [Lo-Hi]         kg         41           Air Volume [Lo-Hi]         m/min         17-19           Sound Level (SPL) [Lo-Hi]         dB(A)         34-38           Sound Level (FWL)         dB(A)         56           Outdoor         Dimensions         H× W × D         mm           Weight         kg         70           Value         Cooling         m/min         55.0           Sound Level (SPL)         Cooling         m/min         55.0           Heating         m/min         55.0         60           Sound Level (SPL)         Cooling         m/min         55.0           Heating         dB(A)         48         67           Operating Current (max)         A         19.0         67           Operating Current (max)         A         19.0         67           Doperating Current (max)         A         19.0         67           Breaker Size         A         25         5           Ext.         Diameter         Liquid / Gas         mm         9.52/15.88           Piping         Max Length         Out-In         m         30           Max Height         Out-In         m         30		Operating Current	(max)		
Air Volume [Lo-Hi]         m/m         17 - 19           Sound Level (SPL) [Lo-Hi]         dB(A)         34 - 38           Sound Level (SPL) [Lo-Hi]         dB(A)         56           Outoor         Dimensions         H × W × D         mm           Weight         Kg         70           Air Volume         Cooling         m/min         55.0           Baing         m/min         55.0           Baing         m/min         55.0           Bound Level (SPL)         Cooling         dB(A)           Sound Level (SPL)         Cooling         dB(A)           Derating Current (max)         A         67           Operating Current (max)         A         19.0           Breaker Size         A         25           Ext.         Diameter         Liquid / Gas         mn           Pipping         Max. Length         Out-In         m         50           Max. Height         Out-In         m         50         50			H×W×D		
Sound Level [SPL] [L0-Hi]         dB(A)         34 - 38           Sound Level (PWL)         dB(A)         56           Outdoor Dimensions         H × W × D         mm         943 - 950 - 330 (+30)           Unit         Weight         kg         70           Air Volume         Cooling         m/min         55.0           Bating         m/min         55.0           Values (SPL)         Cooling         dB(A)           Sound Level (PWL)         Cooling         dB(A)           Operating Current (max)         A         67           Operating Current (max)         A         19.0           Breaker Size         A         25           Ext.         Diameter         Liquid / Gas         mm           Max. Length         Out-In         m         50           Max. Length         Out-In         m         30           Guaranteed Operating Range         Cooling*3         °C         -15 ~ +46					
Sound Level (PWL)         dB(A)         56           Outdoor Unit         Immessions         H × W × D         mm         943-950-330 (+30)           Vinit         Kg         70         70           Air Volume         Cooling         mm/min         56.0           Heating         m <sup>2</sup> /min         56.0           Sound Level (SPL)         Cooling         dB(A)         47           Heating         dB(A)         48         67           Operating Current (max)         A         19.0         67.           Diameter         Liquid / Gas         mm         9.52 / 15.88           Piping         Max. Lengith         Out-In         m         50           Max. Leight         Out-In         m         30         30					
Outdoor Unit         Dimensions         H × W × D         mm         943 - 950 - 330 (+30)           Weight         kg         70           Weight         kg         70           Heating         m <sup>3</sup> /min         55.0           Heating         dB(A)         47           Heating         dB(A)         47           Heating         dB(A)         48           Sound Level (PWL)         Cooling         dB(A)           Operating Current (max)         A         19.0           Breaker Size         A         25           Ext.         Diameter         19.0           Max. Length         Out-In         m           Max. Length         Out-In         m           Guaranteed Operating Range         Cooling*3         °C		Sound Level (SPL	[Lo-Hi]		
Weight         kg         70           Air Volume         Cooling         m/min         55.0           Air Volume         Cooling         m/min         55.0           Sound Level (SPL)         Cooling         dB(A)         47           Heating         dB(A)         43           Sound Level (SPL)         Cooling         dB(A)         48           Operating Current (max)         A         19.0           Breaker Size         A         25           Ext.         Diameter         Liquid / Gas         mm           Piping         Max. Length         Out-In         m           Max. Height         Out-In         m         30           Guaranteed Operating Range         Cooling*3         °C         -15. ~ +46					
Air Volume         Cooling         m³/min         55.0           Heating         m³/min         55.0           Sound Level (SPL)         Cooling         dB(A)         47           Heating         dB(A)         47           Operating Current (max)         A         67           Operating Current (max)         A         19.0           Breaker Size         A         25           Ext.         Diameter         Liquid / Gas           Piping         Max. Length         Out-In         m           Max. Height         Out-In         m         30           Guaranteed Operating Range         Cooling*3         °C         -15.7 ×466			H × W × D		
Heating         m/min         55.0           Sound Level (SPL)         Cooling         dB(A)         47           Heating         dB(A)         47           Operating Current (max)         A         67           Operating Current (max)         A         19.0           Breaker Size         A         25           Ext.         Diameter         Liquid /Gas         mm           Max. Length         Out-In         m         50           Max. Height         Out-In         m         30           Guaranteed Operating Range Cooling <sup>43</sup> °C         -15 ~ +46					
Sound Level (SPL)         Cooling         dB(A)         47           Heating         dB(A)         48           Sound Level (WL)         Cooling         dB(A)         67           Operating Current (max)         A         19.0           Breaker Size         A         25           Ext.         Diameter         Liquid / Gas         m           Piping         Max. Length         Out-In         m           Guaranteed Operating Range         Cooling*3         °C         -15 ~ +466		Air volume			
Heating         dB(A)         48           Sound Level (PWL)         Cooling         dB(A)         67           Operating Current (max)         A         19.0           Breaker Size         A         25           Ext.         Diameter         Liquid / Gas         mm           Max. Length         Out-In         m         50           Max. Height         Out-In         m         30           Guaranteed Operating Range         Cooling*3         °C         -15 - ×466	-	Cound Loval (CDL)			
Sound Level (PWL)         Cooling         dB(A)         67           Operating Current (max)         A         19.0           Breaker Size         A         25           Ext.         Diameter         Liquid / Gas         mm           Piping         Max. Length         Out-In         m           Guaranteed Operating Range         Cooling*3         °C         -15 ~ +46		Sound Level (SPL)			
Operating Current (max)         A         19.0           Breaker Size         A         25           Ext.         Diameter         Liquid / Gas         mm         9.52 / 15.88           Piping         Max. Height         Out-In         m         50           Guaranteed Operating Range         Cooling*3         °C         -15 ~ +46	}	Sound Loval (PM/L)			
Breaker Size         A         25           Ext.         Diameter         Liquid/Gas         mm         9.52/15.88           Piping         Max. Length         Out-In         m         50           Max. Height         Out-In         m         30           Guaranteed Operating Range         Cooling*3         °C         -15 ~ +46					
Ext.         Diameter         Liquid / Gas         mm         9.52 / 15.88           Piping         Max. Length         Out-In         m         50           Max. Height         Out-In         m         30           Guaranteed Operating Range         Cooling*3         °C         -15 ~ +46			(IIIdX/		
Piping Max. Height         Out-In         m         50           Max. Height         Out-In         m         30           Guaranteed Operating Range         Cooling*3         °C         -15 ~ +46			Liquid / Gas		
Max. Height         Out-In         m         30           Guaranteed Operating Range         Cooling*3         °C         -15 ~ +46					
Guaranteed Operating Range Cooling*3 °C -15 ~ +46					
	Outdoorl		Heating	-°C	
10 actions in the second secon					

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# PSA SERIES (R410A)

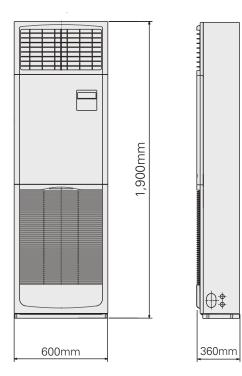
Installation of this floor-standing series is easy and quick. An excellent choice when there is a sudden need for an air conditioner to be installed.



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

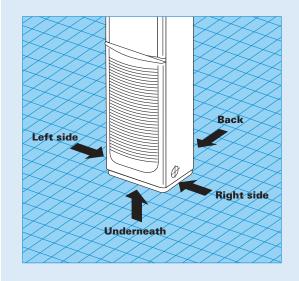
The floor-standing indoor unit is mounted on the floor, enabling quick installation. Its compact body requires only minimal space.

### 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**

Equipped with PAR-40MAA, the latest wired remote controller. Offering excellent readability and a diverse range of functions, the remote controller increases user-friendliness and boosts user satisfaction.

### Main Functions

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



		SERIES SEL	ECTION		
Power Inverter Sei	ries	Inverter	71 100-200 100-200 100-200 100-200 00 00 00 00 00 00 00 00 00	DC fare Motor	Power Receiver
Indoor Unit		Outdoor Unit			
R410A		R410A		and t	
	-	For Single		PUHZ-ZRP71	PUHZ-ZRP100/125/140
		(R410A)			0
PSA-RP71/100/125/140KA		For Multi (Twin/Triple)			PUHZ-ZRP140/200/250
Remote Controller					POHZ-ZRP140/200/250
	Bu	ilt-in		10.14 2020	18-16
Standard Inverter	Series	I	Inverter Vector Sine Wave	DC Retary	Vector-Wase PAM
Indoor Unit		Outdoor Unit			
R410A		R410A			
	-	For Single		PUHZ-P100/125/140	
		R410A			0
PSA-RP71/100/125/140KA		For Multi (Twin/Triple)		PUHZ-P140	PUHZ-P200/250
Remote Controller					
	10	12			
	Bu	uilt-in			

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

										Outd	oor U	nit Cap	oacity								
Indoo	r Unit Combination				Fo	or Sing	gle						For	Twin			F	or Trip	le	For Qu	adruple
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Power Inverter (PUHZ-ZRP)			-	71x1	100x1	125x1	140x1	-	-	-	-	-	71x2	100x2	125x2	-	-	71x3	-	_
	Distribution Pipe		-	-	-	-	-	-	-	-	-	-	-	MSDD-50TR-E	MSDD-	50WR-E	-	-	MSDT-111 R-E	-	-
Stand	Standard Inverter (PUHZ-P)		-	-	-	100x1	125x1	140x1	-	-	-	-	-	71x2	100x2	125x2	-	-	71x3	-	-
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	-	-	MSDD-50TR-E	MSDD-	50WR-E	-	-	MSDT-111 R-E	-	-

### Command Pure Crieck Street Crieck Street Crieck Cri **PSA-RP** SERIES Wiring Pump Fare Connection Set Recal

Туре							Inverter Heat Pump			
Indoor U	nit			PSA-RP71KA	PSA-RI	P100KA	PSA-RF	2125KA	PSA-RF	P140KA
Outdoor	Unit			PUHZ-ZRP71VHA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA3	PUHZ-ZRP125VKA3	PUHZ-ZRP125YKA3	PUHZ-ZRP140VKA3	PUHZ-ZRP140YKA3
Refrigera	ant						R410A*1			
Power	Source						Outdoor power supply			
Supply	Outdoor (V/Phase	e/Hz)				VKA • VHA:23	0 / Single / 50, YKA:40	0 / Three / 50		
Cooling	Capacity	Rated	kW	7.1	9.5	9.5	12.5	12.5	13.4	13.4
coomig		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	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	396	595	606	-	-	-	-
	SEER*4			6.3	5.6	5.5	-	-	-	-
		Energy Efficiency Class		A++	A+	A	-	-	-	-
	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	kW	4.7	- 7.8	- 7.8	-	-	-	-
	Design Load		kVV kW	4.7 4.7 (–10°C)	7.8 (-10°C)	7.8 (-10°C)	-	-	-	-
	Declared Capacity	at reference design temperature at bivalent temperature	kW kW	4.7 (-10°C) 4.7 (-10°C)	7.8 (-10°C) 7.8 (-10°C)	7.8 (–10°C) 7.8 (–10°C)	_	-	-	-
		at operation limit temperature	kW	3.5 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	-	_	-	
	Back Up Heating		kW	0	0	0	_	-	-	_
	Annual Electricity		kWh/a	1666	2761	2761		-	-	_
	SCOP*4	consumption	IK VII/G	4.0	4.0	4.0	-	_	_	
		Energy Efficiency Class		A+	A+	A+	-	-	-	_
Operatir	ng Current (max)		A	19.4	27.2	8.7	27.2	10.2	28.7	13.7
Indoor	Input	Rated	kW	0.06	0.11	0.11	0.11	0.11	0.11	0.11
Unit	Operating Current	t (max)	A	0.4	0.71	0.71	0.73	0.73	0.73	0.73
	Dimensions <panel></panel>	H×W×D	mm				1900 - 600 - 360			•
	Weight <panel></panel>		kg	46	46	46	46	46	48	48
	Air Volume [Lo-Mi		m <sup>3</sup> /min	20 - 22 - 24	25 - 28 - 30	25 - 28 - 30	25 - 28 - 31	25 - 28 - 31	25 - 28 - 31	25 - 28 - 31
	Sound Level (SPL		dB(A)	40 - 42 - 44	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51
	Sound Level (PWL		dB(A)	60	65	65	66	66	66	66
Outdoor Unit	Dimensions	H × W × D	mm	943-950-330(+30)	110	100		0-330(+40)	110	101
Unit	Weight		kg	70 55.0	116	123	116	125	118 120.0	131 120.0
	Air Volume	Cooling Heating	m <sup>3</sup> /min m <sup>3</sup> /min	55.0	110.0 110.0	110.0 110.0	120.0 120.0	120.0 120.0	120.0	120.0
	Sound Level (SPL)	Cooling	dB(A)	47	49	49	50	50	50	50
	Sound Level (SFL)	Heating	dB(A)	47	51	51	52	52	52	52
	Sound Level (PWL)		dB(A)	67	69	69	70	70	70	70
	Operating Current		A	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size	(mux)	Â	25	32	16	32	16	40	16
Ext.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
Piping	Max. Length	Out-In	m	50	75	75	75	75	75	75
	Max. Height	Out-In	m	30	30	30	30	30	30	30
Guarante	ed Operating Range		°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
[Outdoor		Heating	°Č	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21
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PSA-RP SERIES	Demand Control Optional	Pure White 🛠	Long Life	Check!		Q≑Q Aco	44 Auto Restart	Low Temp Cooling	Silent	Group Control Optional	M-NET connection Optional	Wi-Fi )) Interface	СОМРО	Cleaning free,	Wiring Reuse
<b>PJA-KP</b> SERIES STANDARD INVERTER	Pump Down	Flare connection	Self Diagnosis	Failure Recal											

Туре						Inverter H	eat Pump				
Indoor Ur	nit			PSA-RI	P100KA	PSA-RI	P125KA	PSA-RF	2140KA		
Outdoor	Unit			PUHZ-P100VKA	PUHZ-P100YKA	PUHZ-P125VKA	PUHZ-P125YKA	PUHZ-P140VKA	PUHZ-P140YKA		
Refrigera	nt					R41	0A*1				
	Source			Outdoor power supply							
Supply	Outdoor (V/Phase	/Hz)				VKA:230 / Single / 50	YKA:400 / Three / 50				
Cooling	Capacity	Rated	kW	9.4	9.4	12.1	12.1	13.6	13.6		
		Min - Max	kW	3.7 - 10.6	3.7 - 10.6	5.6 - 13.0	5.6 - 13.0	5.8 - 13.7	5.8 - 13.7		
	Total Input	Rated	kW	3.12	3.12	5.02	5.02	6.38	6.38		
	EER			3.01	3.01	2.41	2.41	2.13	2.13		
		EEL Rank		-	-	-	-	-	-		
	Design Load	•	kW	9.4	9.4	-	-	-	-		
	Annual Electricity	Consumption*2	kWh/a	644	644	-	-	-	-		
	SEER*4			5.1	5.1	-	-	-	-		
		Energy Efficiency Clas		A	A	-	-	-	-		
	Capacity	Rated	kW	11.2	11.2	13.5	13.5	15.0	15.0		
(Average		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		
Season)	Total Input	Rated	kW	3.28	3.28	4.80	4.80	4.82	4.82		
	COP			3.41	3.41	2.81	2.81	3.11	3.11		
		EEL Rank		-	-	-	-	-	-		
	Design Load		kW	8.0	8.0	-	-	-	-		
	Declared Capacity	at reference design temperatur		6.0 (-10°C)	6.0 (-10°C)	-	-	-	-		
		at bivalent temperature	kW	7.0 (-7°C)	7.0 (-7°C)	-	-	-	-		
	De la la construcción de	at operation limit temperature		4.5 (-15°C)	4.5 (-15°C)	-	-	-	-		
	Back Up Heating Capacity kW Annual Electricity Consumption*2 kWh/a		kW	2.0 2794	2.0 2794				-		
	SCOP*4	Consumption	KVVn/a	4.0	4.0		-				
	SCOP	Energy Efficiency Clas		4.0 A+	4.0 A+	-	-	-	-		
Operatio	g Current (max)	Energy Enterency clas	A	20.7	12.2	27.2	12.2	30.7	12.2		
Indoor	Input	Rated	kW	0.11	0.11	0.11	0.11	0.11	0.11		
Unit	Operating Current		A	0.71	0.71	0.73	0.73	0.73	0.73		
	Dimensions <panel></panel>		mm	0.71	0.71		00 - 360	0.70	0.70		
	Weight <panel></panel>		ka	46	46	46	46	48	48		
	Air Volume [Lo-Mi	d-Hil	m <sup>3</sup> /min	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)	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51		
	Sound Level (PWL		dB(A)	65	65	66	66	66	66		
	Dimensions	H × W × D	mm	981 - 10	50 - 330	981 - 10	50 - 330	981 - 10	50 - 330		
Unit	Weight		kg	76	78	84	85	84	85		
	Air Volume	Cooling	m <sup>3</sup> /min	79	79	86	86	86	86		
		Heating	m <sup>3</sup> /min	79	79	92	92	92	92		
	Sound Level (SPL)	Cooling	dB(A)	51	51	54	54	56	56		
		Heating	dB(A)	54	54	56	56	57	57		
	Sound Level (PWL)		dB(A)	70	70	72	72	75	75		
	Operating Current	(max)	A	20.0	11.5	26.5	11.5	30.0	11.5		
	Breaker Size		A	32	16	32	16	40	16		
Ext.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88		
	Max. Length	Out-In	m	50	50	50	50	50	50		
	Max. Height	Out-In	m	30	30	30	30	30	30		
	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46		
[Outdoor		Heating	°C	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	–15 ~ +21		

11 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; I leaked to the atmosphere. This appliance contains a refrigerant thild with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of P410A is 2088 in the IPCC 4th Assessment Report.
\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
\*3 Optional air protection guide is required where ambient temperature is lower than -5°C.
\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.



# SP

SERIES







### SELECTION

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

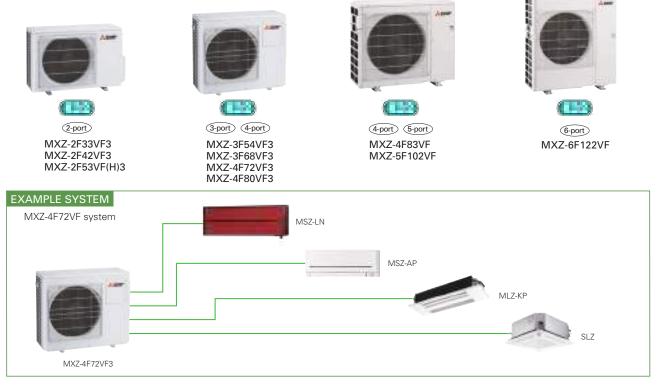
<b>R32</b>	INDOOR UN	IITS	<b>R32</b>	OUTDOOR U	NITS
Wall-mounted		Floor-standing	<b>2-port</b> up to 2 indoor units	<b>3-port</b> up to 3 indoor units	<b>4-port</b> up to 4 indoor units
MSZ-LN (18+25+35+50)	MSZ-EF	MFZ-KT	0		MXZ-4F72VF3 MXZ-4F80VF3
MSZ-AP25-50		Ceiling-suspended	MXZ-2F33VF3 MXZ-2F42VF3 MXZ-2F53VF(H)3	0	
MSZ-AP15-20	MSZ-AP60VG	PCA	0	MXZ-3F54VF3 MXZ-3F68VF3	MXZ-4F83VF
	MSZ-BT	Ceiling-concealed	MXZ-2F53VFHZ		0
Cassette			<b>5-port</b> up to 5 indoor units	<b>6-port</b> up to 6 in	MXZ-4F83VFHZ
SLZ	MLZ-KP	SEZ			
		PEAD	MXZ-5F102VF		MXZ-6F122VF

R410A	INDOOR UN	ITS	R410A	OUTDOOR U	NITS
Wall-mounted	MSZ-AP25-50	Floor-standing	<b>2-port</b> up to 2 indoor units	<b>3-port</b> up to 3 indoor units	<b>4-port</b> up to 4 indoor units
MSZ-LN (25•35)	MSZ-AP15-20	MFZ-KJ	0		MXZ-4E72VA
	MSZ-SF25-50	Ceiling-suspended	MXZ-2D33VA MXZ-2D42VA2 MXZ-2D53VA(H)2	0	0
MSZ-EF	MSZ-SF15-20	PCA	0	MXZ-3E54VA MXZ-3E68VA	MXZ-4E83VA
MSZ-GF		Ceiling-concealed	MXZ-2E53VAHZ		MXZ-4E83VAHZ
Cassette			5-port up to 5 indoor units	<b>6-port</b> up to 6 inc	door units
	SLZ	SEZ	0		0
MLZ-KP	PLA	PEAD	MXZ-5E102VA	Ν	MXZ-6D122VA2

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



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



### Units can be used even if it is connected to only one indoor unit (4F83/5F102/6F122)

This unit can be used even if it is connected to only one indoor unit. This offers more flexibility for wide range of application that satisfies various customers' demand.

### No necessity for refrigerant charging

Depending on the pipe length and the indoor units that are connected, conventional models have required refrigerant charging, but no R32 MXZ model needs to be charged with additional refrigerant. This eliminates troublesome work at the site of installation, and reduces the amount of additional work for the installer.

### Handle Up to 6 Rooms with a Single Outdoor Unit

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

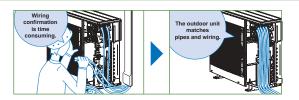
### Support Functions

### Wiring/Piping Correction Function\* (3F54/3F68/4F72/4F80/4F83/5F102/6F122)

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

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

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



### **Operation Lock**

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

Type (Inv	erter Multi - Sp	lit Heat Pump)			Up to 2 In	door Units		Up to 3 In	door Units	Up	to 4 Indoor U	nits	Up to 5 Indoor Units
Indoor Un	it							P	lease refer to '	*3			
Outdoor L	Jnit			MXZ-2F33VF3	MXZ-2F42VF3	MXZ-2F53VF3	MXZ-2F53VFH3	3VFH3 MXZ-3F54VF3 MXZ-3F68VF3 MXZ-4F72VF3 MXZ-4F80VF3 MXZ-4F83VF					MXZ-5F102VF
Refrigerar	nt				R32*1								
Power	Source				Outdoor power supply								
Supply	Outdoor (V/Ph	ase/Hz)						220 - 23	0 - 240V / Singl	le / 50Hz			
Cooling	Capacity	Rated	kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2	8.0	8.3	10.2
	Input	Rated	kW	0.85	0.98	1.40	1.40	1.32	1.84	1.85	2.25	1.97	2.80
	EER*3			3.88	4.29	3.79	3.79	4.10	3.70	3.89	3.56	4.21	3.64
	Design Load	1	kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2	8.0	8.3	10.2
	Annual Elect	tricity Consumption*2	kWh/a	189	169	216	216	222	301	311	368	342	436
	SEER*3,*5			6.1	8.7	8.6	8.6	8.5	7.9	8.1	7.6	8.5	8.2
		Energy Efficiency (	Class*3	A++	A+++	A+++	A+++	A+++	A++	A++	A++	A+++	A++
Heating	Capacity	Rated	kW	4.0	4.5	6.4	6.4	7.0	8.6	8.6	8.8	9.3	10.5
(Average		Rated	kW	0.91	0.88	1.56	1.56	1.40	1.91	1.87	2.00	2.00	2.28
Season)	COP*3			4.40	5.11	4.10	4.10	5.00	4.50	4.60	4.40	4.65	4.60
-	Design Load	[	kW	2.7	3.5	3.5	3.5	5.2	6.8	7.0	7.0	7.0	7.4
	Declared at	reference design temperature	kW	2.2	2.7	2.7	2.7	4.2	5.7	5.6	5.6	5.8	5.9
	Capacity at	bivalent temperature	kW	2.4	2.9	2.9	2.9	4.7	6.4	6.2	6.2	6.2	6.4
	at	operation limit temperature	kW	1.6	2.3	2.3	2.1	3.2	4.6	4.8	4.8	4.9	4.9
	Back Up Heating Capacity kW		kW	0.5	0.8	0.8	0.8	1.0	1.1	1.4	1.4	1.2	1.5
	Annual Electricity Consumption*2 k		kWh/a	944	1065	1065	1089	1583	2321	2389	2389	2087	2205
	SCOP* <sup>3,*5</sup>			4.0	4.6	4.6	4.5	4.6	4.1	4.1	4.1	4.7	4.7
		Energy Efficiency (	Class*3	A+	A++	A++	A+	A++	A+	A+	A+	A++	A++
Operating	Current (max)		А	10.0	12.2	12.2	12.2	18.0	18.0	18.0	18.0	21.4	21.4
Outdoor	Dimensions	H×W×D	mm		550 - 8	00 (+69) - 285	(+59.5)	710 - 1	840 (+30) - 330	) (+66)		796 - 9	50 - 330
Unit	Weight		kg	33	37	37	38	58	58	59	59	62	62
	Air Volume	Cooling	m <sup>3</sup> /min	31.5	28.4	32.7	32.7	31	35.4	35.4	40.3	57	63
		Heating	m <sup>3</sup> /min	32.3	33.5	34.7	34.7	31	39.6	42.7	44.1	62	75
	Sound Level (S	-	dB(A)	49	44	46	46	46	48	48	50	49	52
		Heating	dB(A)	50	50	51	51	50	53	54	55	51	56
	Sound Level (P	~	dB(A)	60	59	61	61	60	63	63	65	61	65
	Operating Curr	,	A	4.3 - 4.1 - 3.9	4.9 - 4.7 - 4.5	6.5 - 6.2 - 6.0	6.5 - 6.2 - 6.0	6.0 - 5.7 - 5.5	8.4 - 8.0 - 7.7	8.5 - 8.1 - 7.8	10.3 - 9.9 - 9.5	9.1 - 8.7 - 8.3	12.9 - 12.3 - 11.
		Heating	A	4.6 - 4.4 - 4.2	4.4 - 4.3 - 4.1	7.5 - 7.1 - 6.8	7.5 - 7.1 - 6.8	6.4 - 6.1 - 5.9		8.6 - 8.2 - 7.9		9.2 - 8.8 - 8.4	
	Breaker Size	1	A	15	15	15	15	25	25	25	25	25	25
Ext.	Port Diameter	Liquid / Gas	mm		-	6.35 × 2 / 9.52 × 2	-				4/12.7×1+9		6.35x5/12.7x1+9.52x
Piping	Total Piping Le		m	20	30	30	30	50	60	60	60	70	80
		nit Piping Length (max)	m	15	20	20	20	25	25	25	25	25	25
	Max. Height	,	m	10	15(15)	15(15)	15(15)	15(15)	15(15)	15(15)	15(15)	15	15
	Chargeless Ler	nath	m	20	30	30	30	50	60	60	60	70	80
Guarantee	d Operating Ran	· · · · · · · · · · · · · · · · · · ·	°C		-10 ~ +46		-10 ~ +46				~ +46		
[Outdoor]	por a tring fruit	Heating	°C		-15 ~ +24		-20 ~ +24				~ +24		
		produing		1				1		10			

Inverter Coord Coord PAM

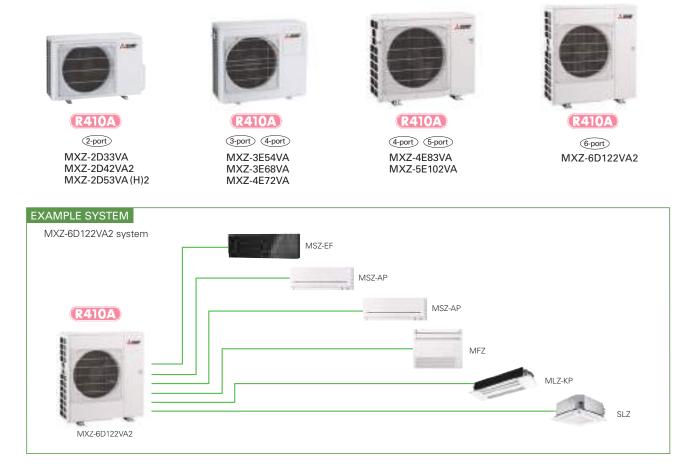
Type (Inv	verter Multi - Split He	at Pump)		Up to 6 Indoor Units
Indoor Ur	nit			Please refer to (*4)
Outdoor	Unit			MXZ-6F122VF
Refrigera	nt			R32*1
Power	Source			Outdoor power supply
Supply	Outdoor (V/Phase/I	Hz)		220 - 230 - 240V / Single / 50
Cooling	Capacity	Rated	kW	12.2
	Input	Rated	kW	3.66
	EER*4			3.33
Heating	Capacity	Rated	kW	14.0
	Input	Rated	Please refer tr           MXZ-6F122           R32*1           Qutdoor power           220 - 230 - 240V / /           kW           12.2           kW           xW           xW           xW           xW           xW           xW           xW           xW           xBar           xW           xBar           xW           xBar           xBar	3.31
	COP*4			4.23
Operatin	g Current (max)		A	29.8
Outdoor	Dimensions	H × W × D	mm	1048 - 950 - 330
Unit	Weight		kg	87
	Air Volume	Cooling	m³/min	63
		Heating	m³/min	77
	Sound Level (SPL)	Cooling	dB(A)	55
		Heating	dB(A)	57
	Sound Level (PWL)	Cooling	dB(A)	69
	Breaker Size		A	32
Ext.	Diameter	Liquid	mm	6.35 x 6
Piping		Gas	mm	12.7 x 1 + 9.52 x 5
	<b>Total Piping Length</b>	(max)	m	69 32 6.35 × 6 12.7 × 1 + 9.52 × 5 80
	Each Indoor Unit Piping	Length (max)	m	25
	Max. Height		m	15
	Chargeless Length		m	80
	ed Operating Range	Cooling	°C	-10 ~ +46
[Outdoor]		Heating	°C	-15 ~ +24

Heating Location Heating L L 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, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
 \*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
 \*3 EER/COP, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
 MXZ-2F33VF3 → MSZ-LN18VG2 + MSZ-LN18VG2
 MXZ-2F3VF3 → MSZ-LN18VG2 + MSZ-LN25VG2
 MXZ-2F53VF(H)3 → MSZ-LN18VG2 + MSZ-LN25VG2
 MXZ-3F54VF3 → MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN18VG2 + MSZ-LN25VG2
 MXZ-4F60VF3 → MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2
 MXZ-4F60VF → MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2
 MXZ-5F102VF → MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2
 \* 4EER/COP values and energy efficiency class are measured when connected to the indoor units listed below.
 MXZ-6F122VF → MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2
 \* 5 SEER and SCOP are based on 2009/12/5/EC.Energy-related Products Directive and Regulation(EU) No206/2012.

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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 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.)

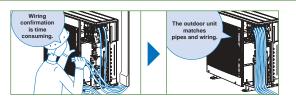
\* Function cannot be used when the outdoor temperature is below 0°C.

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 Uni
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	utdoor power sup	ply			
Supply	Outdoor (V/Phase/	Hz)					220 -	230 - 240V / Sing	gle / 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		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	Consumption*2	kWh/a	211	216	262	262	295	425	443	460	537
	SEER* <sup>4,*7</sup>			5.5	6.8	7.1	7.1	6.4	5.6	5.7	6.3	6.6
		Energy Efficiency	Class*4	A.	A++	A++	A++	Δ++	A+	A+	A++	A++
Heating	Capacity	Bated	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		kW	0.96	0.93	1.70	1.70	1.59	2.38	2.28	2.00	2.34
	Design Load	/ Inated	kW	2.7	3.2	4.5	4.5	5.0	6.8	7.0	8.7	8.9
	Declared at reference	o dosign tomporaturo	kW	2.7	2.7	3.7	4.5	4.0	5.4	5.6	7.1	7.3
		temperature	kW	2.1	3.0	4.0	4.0	4.0	6.0	6.2	7.1	7.3
			kW	1.7	2.3	3.3	3.0	3.17	4.4	4.7	6.0	6.3
	Back Up Heating Capacity kW				0.5				1.4	1.4	1.6	1.6
			kWh/a	0.6		0.8	0.9	1.0		-		
	Annual Electricity Consumption*2 SCOP*4.*7		KVVN/a	926	1065 4.2	1507 4.2	1546	1751	2466	2516	2889	2958 4.2
	SCOP	Energy Efficiency	01	4.1 A+	4.2 A+	4.Z A+	4.1	4.0	3.9			
		01 1	1				A+	A+	A	A	A+	A+
<u> </u>	erating Current (Indo		A	10.0	12.2	12.2	12.2	18.0	18.0	18.0	21.4	21.4
Outdoor Unit	Dimensions	$H \times W \times D$	mm			9) - 285(+59.5)			840(+30) - 330			50 - 330
onne	Weight		kg	32	37	37	38	58	58	59	63	64
	Air Volume	Cooling	m³/min	32.9	27.7	32.9	32.9	42.1	42.1	42.1	55.6	65.1
		Heating	m³/min	33.7	33.3	33.3	33.3	43.0	43.0	43.0	55.6	68.0
	Sound Level (SPL)	Cooling	dB(A)	49	46	50	50	50	50	50	49	52
		Heating	dB(A)	50	51	53	53	53	53	53	51	56
	Sound Level (PWL)	Cooling	dB(A)	63	60	64	64	64	64	64	61	65
	Breaker Size		A	10	15	15	15	25	25	25	25	25
Ext.	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×
	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)* <sup>3</sup>							
	Chargeless Length		m	20	20	20	20	40	40	40	25	0
	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.

Type (Inv	erter Multi - Split Hea	at Pump)		Up to 6 Indoor Units
Indoor Ur	nit			Please refer to (*5)
Outdoor l	Jnit			MXZ-6D122VA2
Refrigerar	nt			R410A*1
Power	Source			Outdoor power supply
Supply	Outdoor (V/Phase/H	lz)		220 - 230 - 240V / Single / 50
Cooling	Capacity	Rated	kW	12.2
		Min - Max	kW	3.5 - 13.5
	Input <sup>*5</sup>	Rated	kW	3.66
	EER <sup>*6</sup>		Please refer to (*5           MXZ-6D122VA2           R410A*1           Outdoor power supp           220 - 230 - 240V / Singl           ited         kW           12.2           in - Max         kW           3.5 - 13.5           ited         kW           3.66           3.33           EL Rank         A           ted         kW           14.0           in - Max         kW           3.33           EL Rank         A           ted         kW           3.5 - 16.5           ited         kW           3.31           4.23           EL Rank         A           4.23           EL Rank         A           26.8           × W × D         mm           Max         1048-950-330           kg         88           pooling         dB(A)           55         5           baating         dB(A)           57         5           pooling         dB(A)           70         A           4.32           a	3.33
		EEL Rank		A
Heating	Capacity	Rated	kW	14.0
		Min - Max	kW	3.5 - 16.5
	Input <sup>*5</sup>	Rated	kW	3.31
	COP*6			4.23
		EEL Rank		A
Operatin	g Current (max)*5		Α	26.8
Outdoor	Dimensions	H × W × 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)	70
	Breaker Size		А	32
Ext.	Diameter	Liquid	mm	6.35×6
Piping		Gas	mm	12.7 × 1 + 9.52 × 5
	<b>Total Piping Length</b>	(max)	m	80
	Each Indoor Unit Piping	Length (max)	m	25
	Max. Height		m	15 (10)* <sup>3</sup>
	Chargeless Length		m	30
	ed Operating Range	Cooling	°C	-10 ~ +46
[Outdoor]		Heating	°C	-15 ~ +24

#### NOTE

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

### MXZ-2D33VA

No. of MFZ-KJ indoor units	Pipe length (L) ~20m	Maximum amount of refrigerant	
1 unit	~2011 100g additional (Total 1250g)	1250a	
2 units	Not available (Only one MFZ-KJ series indoor unit can b		

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

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

### MXZ-3E54VA

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

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

No. of	Pipe le	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	

\*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 CO<sub>2</sub> over a period of 100 years. Never try to interfiere 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.
 MX2-2D32VA → MSZ-EF18VE + MSZ-EF18VE
 MXZ-2D53V(H) → MSZ-EF18VE + MSZ-EF18VE
 MXZ-2EF18VE + MSZ-EF18VE + MSZ-EF18VE
 MXZ-3E68VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE
 MXZ-4E53VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE
 MXZ-4E53VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE
 MXZ-4E53VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE
 MXZ-4E52VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF25VE
 MXZ-4E53VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF22VE + MSZ-EF22VE
 \*5 Power input and operating current (max) figures are for outdoor unit on)
 \*6 EER/COP are based on 2009/125/EC.Energy-related Products Directive and Regulation(EU) No206/2012.



Multi-port outdoor units exclusively for MSZ-HR 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.



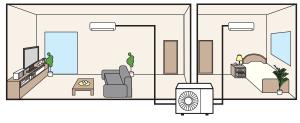
### Easy to create various combinations

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

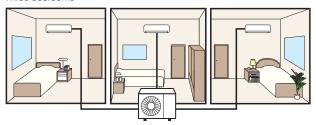
### Two bedrooms



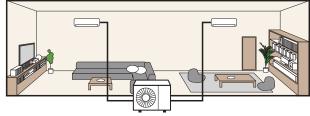
Living room and one bedroom



Three bedrooms







### MXZ-HA SERIES



Type (Inverter Multi - Split Heat Pump)		Up to 2 Ind	oor Units	Up to 3 Indoor Units		
Indoor Unit						
Outdoor Unit				MXZ-2HA40VF	MXZ-2HA50VF	MXZ-3HA50VF
Refrigerant					R32*1	
	Source				Outdoor power supply	
upply 0	Outdoor (V/Phase/H	z)			220-230-240 / Single / 50	
Cooling	Capacity Rated		kW	4.0	5.0	5.0
	Input <sup>*4</sup>	Rated	kW	1.05	1.52	1.26
	EER <sup>*4</sup>			3.81	3.29	3.97
		EEL Rank*4		А	А	А
	Design Load		kW	4.0	5.0	5.0
	Annual Electricity	Consumption*2	kWh/a	172	225	241
	SEER*4.*5		·	8.12	7.78	7.26
	Energy Efficiency		lass*4	A++	A++	A++
leating	Capacity	Rated	kW	4.3	6.0	6.0
Average	Input	Rated	kW	0.91	1.54	1.30
Season)	COP*4			4.73	3.90	4.62
		EEL Rank*4		A	A	A
	Design Load		kW	3.2	3.2	4.0
	Declared at reference design temperature		kW	2.4	2.4	3.0
	Capacity at bivalent temperature		kW	2.9	2.9	3.6
	at operation limit temperature		kW	2.1	2.1	2.6
	Back Up Heating Capacity		kW	0.8	0.8	1.0
	Annual Electricity Consumption*2		kWh/a	1043	1043	1394
	SCOP*4,*5 Energy Efficiency			4.30	4.30	4.02
			lass*4	A+	A+	A+
perating (	Current (max)	5, 1,	A	12.2	12.2	18.0
utdoor D	Dimensions	H × W × D	mm	550 - 800 (+69) - 285 (+59.5)	550 - 800 (+69) - 285 (+59.5)	710 - 840 (+30) - 330 (+66)
nit V	Veight		kg	37	37	57
	Air Volume	Cooling	m <sup>3</sup> /min	28.4	32.7	31.0
		Heating	m <sup>3</sup> /min	33.5	34.7	29.1
s	ound Level (SPL)	Cooling	dB(A)	44	47	46
-		Heating	dB(A)	50	51	50
s	ound Level (PWL)	Cooling	dB(A)	59	64	61
_	Operating Current	Cooling	A	4.9	6.8	5.6
-		Heating	A	4.6	6.9	5.8
в	Breaker Size		A	15	15	25
	Port Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35 × 2 / 9.52 × 2	6.35 × 3 / 9.52 × 3
–	Total Piping Length (max)		m	30	30	50
	ach Indoor Unit Pip		m	20	20	25
			m	15 (10)*3	15 (10)*3	15 (10)*3
I.M.	Max. Height				30	40
	hargeless Length		m			
С	Chargeless Length Operating Range	Cooling	°C	30	-10 ~ +46	40

If 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 CO<sub>2</sub>, over a period of 100 years. Never try to interfree with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
 The GWP of R32 is 675 in the IPCC 4th Assessment Report
 \*2 Energy consumption based on standard test results.Actual energy consumption will depend on how the appliance is used and where it is located.
 \*3 If the outdoor unit is installed higher than the indoor unit, max hight is reduced to 10m.
 \*4 EER/COP values and energy efficiency class are measured when connected to the indoor units listed below.
 MXZ-2HA40VF MSZ-HR25VF + MSZ-HR25VF
 MXZ-3HA50VF MSZ-HR25VF + MSZ-HR25VF + MSZ-HR25VF
 \*5 SEER and SCOP are based on 2009/125/EC.Energy-related Products Directive and Regulation(EU) No206/2012.



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.



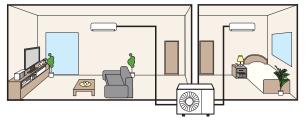
#### Easy to create various combinations

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

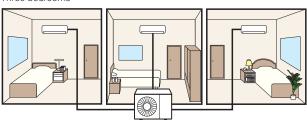
#### Two bedrooms



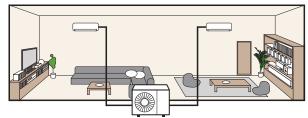
Living room and one bedroom

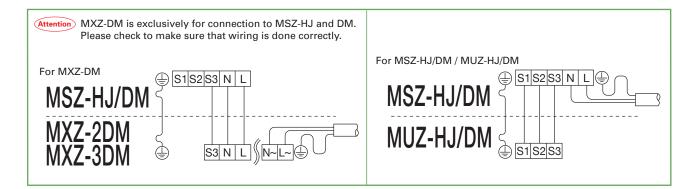


Three bedrooms



Wide living room





### MXZ-DM SERIES

- 1				зни	
Inverter	Joint Lap	DC Fan Motor	PAM	Power Receiver	Grooved Piping

Type (Invert	ter Multi - Split Hea	at Pump)		Up to 2 Indoor Units	Up to 3 Indoor Units			
door Unit				Please	refer to (*4)			
Outdoor Unit				MXZ-2DM40VA	MXZ-3DM50VA			
Refrigerant				R410A*1				
Power Source					power supply			
upply O	utdoor (V/Phase/H	z)		230 /	Single / 50			
ooling	Capacity	Rated	kW	4.0	5.0			
	Input <sup>*4</sup>	Rated	kW	1.05	1.13			
	EER*4			3.81	4.42			
		EEL Rank*4		А	A			
	Design Load		kW	4.0	5.0			
	Annual Electricity	Consumption*2	kWh/a	226	283			
	SEER* <sup>4,*5</sup>			6.1	6.1			
	Energy Efficiency		Class*4	A++	A++			
	Capacity	Rated	kW	4.3	6.0			
verage	Input	Rated	kW	1.16	1.31			
	COP*4			3.71	4.58			
		EEL Rank*4		А	А			
	Design Load		kW	3.2	4.0			
	Declared at reference design temperar		kW	2.73	3.34			
		t temperature	kW	3.01	3.73			
		on limit temperature	kW	2.27	2.70			
	Back Up Heating C		kW	0.47	0.66			
	Annual Electricity Consumption*2		kWh/a	1105	1455			
	SCOP*4,*5 Energy Efficiency			4.0	3.8			
			lass*4	A <sup>+</sup>	A			
erating C	Current (max)		A	12.2	18.0			
tdoor Di	imensions	H × W × D	mm	550 - 800 (+69) - 285 (+59.5)	710 - 840 (+30) - 330 (+66)			
nit W	/eight		kg	32	57			
	ir Volume	Cooling	m <sup>3</sup> /min	29.2	37.5			
		Heating	m <sup>3</sup> /min	31.9	39.6			
S	ound Level (SPL)	Cooling	dB(A)	48	50			
-		Heating	dB(A)	52	53			
S	ound Level (PWL)	Cooling	dB(A)	63	64			
	perating Current	Cooling	A	5.1	5.0			
		Heating	A	5.6	5.8			
В	reaker Size		A	15	25			
	ort Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35 × 3 / 9.52 × 3			
- <b>–</b>	otal Piping Length	1 1 1	m	30	50			
	ach Indoor Unit Pip		m	20	25			
	lax. Height	5 ···· 6··· (uk)	m	15 (10)*3	15 (10)*3			
	hargeless Length		m	20	40			
	Operating Range	Cooling	°C		0 ~ +46			
[Outdoor] Cooling Heating				-10 ~ +46 -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 CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
\*3 if the outdoor unit is installed higher than the indoor unit, max hight is reduced to 10m.
\*4 EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
MX2-3DM50VA MSZ-DM25VA + MSZ-DM25VA
\*5 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

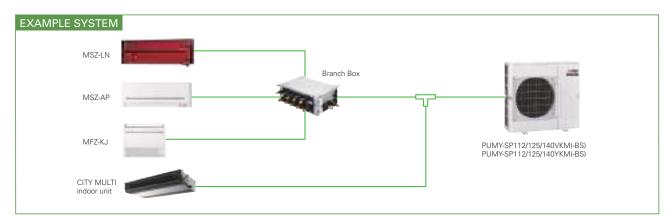
# **PUMY-SP** series

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



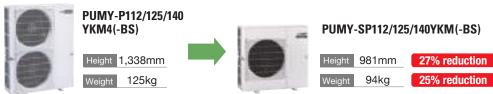
#### R410A

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



#### Light weight and compact size

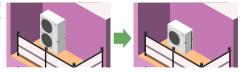
Compact design fits into narrow outdoor unit space of condominiums and offices. Light weight design facilitates easy installation and transportation.



#### 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.

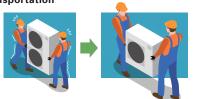
#### Rear piping is available

#### 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.

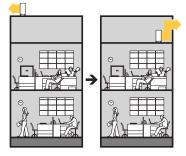
The out-door unit with an expanded piping layout flexibility greatly improves piping workability.

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

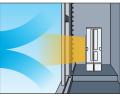


#### An external static pressure of 30Pa

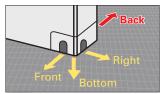
The installation location is flexible, thanks to its 30Pa static pressure. You can install it in locations that you could not before.



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



Noise level will increase when using this function.



## PUMY-SP SERIES

Model				PUMY-SP112VKM(-BS)	PUMY-SP125VKM(-BS)	PUMY-SP140VKM(-BS)	PUMY-SP112YKM(-BS)	PUMY-SP125YKM(-BS)	PUMY-SP140YKM(-BS)	
Power Source			1-phase	220 - 230 - 240V 50Hz / 2	20V 60Hz	3-phase 3	3-phase 380 - 400 - 415V 50Hz / 380V 60Hz			
Cooling Capacity	*1 kW		kW	12.5	14.0	15.5	12.5	14.0	15.5	
(nominal)	Power Input Current Input		kW	3.10	3.84	4.70	3.10	3.84	4.70	
			A	14.38 - 13.75 - 13.18 / 14.38	17.81 - 17.04 - 16.33 / 17.81	21.80 - 20.85 - 19.88 / 21.80	4.96 - 4.71 - 4.54 / 4.96	6.14 - 5.83 - 5.62 / 6.14	7.52 - 7.14 - 6.88 / 7.52	
	EER		kW/kW	4.03	3.65	3.30	4.03	3.65	3.30	
Temp. Range	Indoor Tem	p.	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*4	Outdoor Te	<b>mp.</b> *3	D.B.	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	
Heating Capacity		*2	kW	14.0	16.0	16.5	14.0	16.0	16.5	
(nominal)	Power Inpu	ıt	kW	3.17	3.90	4.02	3.17	3.90	4.02	
	Current Inp	ut	A	14.70 - 14.06 - 13.48 / 14.70	18.09 - 17.30 - 16.58 / 18.09	18.65 - 17.83 - 17.09 / 18.65	5.07 - 4.82 - 4.64 / 5.07	6.24 - 5.93 - 5.71 / 6.24	6.43 - 6.11 - 5.89 / 6.43	
	COP		kW/kW	4.42	4.10	4.10	4.42	4.10	4.10	
Temp. Range	Indoor Tem	p.	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 Te	mp.	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 Capac	ity			50	to 130% of outdoor unit (	capacity			
Connectable	Model / Qu	antity	City Multi	10 - 140 / 9	10 - 140 / 10	10 - 140 / 12	10 - 140 / 9	10 - 140 / 10	10 - 140 / 12	
			Branch Box*9	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	
	Mixed	Branch Box	City Multi	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 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	10 - 140 / 3 or 2*7	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3 or 2*7	10 - 140 / 3	10 - 140 / 3	
		2 units	Branch Box	15 - 100 / 7 or 8*7	15 - 100 / 8	15 - 100 / 8	15 - 100 / 7 or 8* <sup>7</sup>	15 - 100 / 8	15 - 100 / 8	
Sound Pressure Le (Cooling / Heating			dB <a></a>	52 / 54	53 / 56	54 / 56	52 / 54	53 / 56	54 / 56	
Sound Power Leve	el (Cooling)	l (Cooling) dB <a></a>		72	73	74	72	73	74	
<b>Refrigerant Piping</b>	Liquid Pipe mm		9.52 Flare							
Diameter	Gas Pipe mm		15.88 Flare							
Fan	Type × Quantity				Propeller	Fan × 1				
	Air Flow Ra	ate	m <sup>3</sup> /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 Outp	out	kW	0.20						
	External Stat	tic Press.	Pa	0 Pa / 30 Pa*8						
Compressor	Type × Qua	intity				Twin rotary herme	tic compressor × 1			
	Starting Me					Inve				
	Motor Outp	out	kW	3.1	3.5	3.7	3.1	3.5	3.7	
External Dimension	ns (H × W × D	D)	mm			981×1,050	×330 (+40)			
Net Weight			kg (lbs)		93 (205)*5			94 (207)*6		
Pre-Chareged	Weight		kg	3.5	3.5	3.5	3.5	3.5	3.5	
Quantity	CO <sub>2</sub> Equiva	lent	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 <sub>2</sub> Equiva	lent	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

\*\*3 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 11 units when connecting via 2 branch boxes.
\*5 94 (207), for PUMY-SP112/125/140VKM-BS
\*6 95 (209), for PUMY-SP112/125/140VKM-BS
\*6 95 (209), for PUMY-SP112/125/140VKM-BS
\*7 When connecting 7 indoor units via branch box, connectable City Multi indoor units are 3; connecting 8 indoor units via branch box, connectable City Multi indoor units are 2.
\*8 0 Pa as initial setting
\*9 At least 2 indoor units must be connected when using branch box.

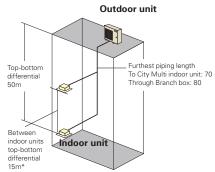
"9 At least 2	Indoor	units mus	stbe	connected	wnen	using	branch box.	

Туре				Branch Box			
Model Name	)			PAC-MK54BC	PAC-MK34BC		
Connectable	Number of Indoo	r Units		Maximum 5	Maximum 3		
Power Supp	ly (from outdoor u	nit)		~ / N, 220 / 230 / 240 V, 50 Hz, ~ / N, 220 / 230 V, 60 Hz			
Input			kW	0.0	0.003		
Running Cur	Running Current A			0.05 (Max. 6)			
Dimensions		$H \times W \times D$	mm	$170 \times 450 \times 280$			
Weight			kg	7.4	6.7		
Piping	Branch	Liquid	mm	ø6.35 × 5	ø6.35 × 3		
Connection (Flare)	[Indoor Side]	Gas	mm	ø9.52 × 4, ø12.7 × 1	ø9.52 × 3		
	Main	Liquid	mm	ø9	.52		
	[Outdoor Side]	Gas	mm	ø15	5.88		

\* The piping connection size differs according to the type and capacity of outdoor/indoor units. Match the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of branch box does not match the piping connection size of outdoor/indoor unit, use optional different-diameter (deformed) joints to the branch box side. (Connect deformed joint directly to the branch box side.)

#### <Branch box compatible table>

Outdoor unit	Branch box	PAC-MK31/ 51BC(B)	PAC-MK32/ 52BC(B)	PAC-MK33/ 53BC(B)	PAC-MK34/ 54BC
Outdoor unit	PUMY-SP112/125/140V/ YKM(-BS)	$\checkmark$	N/A	N/A	N/A
1fan	PUMY-SP112/125/140V/ YKMR1(-BS)	N/A	N/A	$\checkmark$	$\checkmark$
	PUMY-SP112/125/140V/ YKM(-BS)R2	N/A	N/A	~	$\checkmark$
Outdoor unit	PUMY-P112/125/140V/YKM4(-BS)	√*	~	$\checkmark$	$\checkmark$
2fan	PUMY-P112/125/140V/YKM4R1(-BS)	√*	$\checkmark$	~	$\checkmark$
	PUMY-P112/125/140VKM5(-BS)	√*	~	$\checkmark$	$\checkmark$
	PUMY-P112/125/140V/YKM4(-BS)R2	√*	~	$\checkmark$	$\checkmark$
Outdoor unit	PUMY-P200YKM2(-BS)	~	~	~	$\checkmark$
8HP	PUMY-P200YKM2R1(-BS)	~	~	$\checkmark$	$\checkmark$
	PUMY-P200YKM2(-BS)R2	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$



#### \*ecodan is NG

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

Refrigerant Piping Lengths	Maximum meters
Total length ·····	120

Total length	120
Maximum allowable length	To City Multi indoor
	unit: 70
	Through 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**<sub>SERIES</sub>

small offices and stores, home offices, etc.

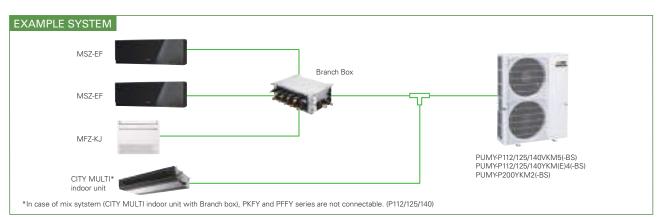
Air conditioning system supports replacement work by simplifying

the installation process. Ideal for supporting renewal needs at



#### (R410A)

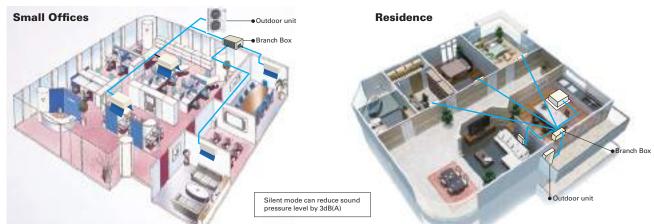
PUMY-P112/125/140VKM5(-BS) PUMY-P112/125/140YKM(E)4(-BS) PUMY-P200YKM2(-BS)



#### 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 effectively.

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



			Maximum Meters							
			Only City Multi*1	Only City Multi*1 Only Branch Box Mixed System (City Multi*1 Indoor Unit + Bra						
			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	40					
		Indoor/Indoor	15*3	15*3	15*3					
P200	Refrigerant Piping Length	Total Length	150	150	1!	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	40					
		Indoor/Indoor	15*3	15*3	15*3					

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

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

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

\* PUMY-P112/125/140VKM5(-BS), PUMY-P112/125/140VKM(E)4(-BS) only. \* Noise level will increase when using this function. 

### PUMY SERIES

Inverter	Vector Sine Wave	DC Serol	DC Fan Malar	Wetter-Wave	PAM	
	Vector Sine Wave	DC Scrol	DC Fan Motor	Vector-Wave		Grooved Piping

Model				PUMY-P112VKM5(-BS)			PUMY-P112YKM4(-BS)	PUMY-P125YKM4(-BS)		PUMY-P200YKM2(-B
Power Source		¥1			ase 220 - 230 - 240V !			3-phase 380 - 400	1	
Cooling Capacity nominal)	-		NVV	12.5	14.0	15.5	12.5	14.0	15.5	22.4
iomnai/	Power Input		kW	2.79	3.46	4.52	2.79	3.46	4.52	6.05
	Current Inpu	t	A	12.87 - 12.32 - 11.80	15.97 - 15.27 - 14.64	20.86 - 19.95 - 19.12	4.99 - 4.74 - 4.57	5.84 - 5.55 - 5.35	7.23 - 6.87 - 6.62	9.88 - 9.39 - 9.0
	EER		kW/kW	4.48	4.05	3.43	4.48	4.05	3.43	3.70
emp. Range f Cooling	Indoor Temp		W.B.	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C
	Outdoor Ten	ip.*3	D.B.	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C
eating Capacity		*2	kW	14.0	16.0	18.0	14.0	16.0	18.0	25.0
nominal)	Power Input		kW	3.04	3.74	4.47	3.04	3.74	4.47	5.84
	Current Inpu	t	A	14.03 - 13.42 - 12.86	17.26 - 16.51 - 15.82	20.63 - 19.73 - 18.91	5.43 - 5.16 - 4.98	6.31 - 6.00 - 5.78	7.15 - 6.79 - 6.55	9.54 - 9.06 - 8.7
	COP		kW/kW	4.61	4.28	4.03	4.61	4.28	4.03	4.28
emp. 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	15.0 - 27.0°C
f Heating	Outdoor Ten	ıp.	W.B.	-20.0 - 15.0°C	-20.0 - 15.0°C	-20.0 - 15.0°C	-20.0 - 15.0°C	-20.0 - 15.0°C	-20.0 - 15.0°C	-20.0 - 15.0°C
door Unit	Total Capaci	ty				50 to 130% of our	tdoor unit capacity			
onnectable	Model / Qua	· ·	City Multi	10 - 140 / 9	10 - 140 / 10	10 - 140 / 12	10 - 140 / 9	10 - 140 / 10	10 - 140 / 12	10 - 200 / 12
			Branch Box*5	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8
	Mixed	Branch	City Multi	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 200 / 5
			Branch Box	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5
		Branch	City Multi							
		Box		10 - 140 / 3 or 2*4	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3 or 2*4	10 - 140 / 3	10 - 140 / 3	10 - 200 / 3
and Dec.		units	Branch Box	15 - 100 / 7 or 8*4	15 - 100 / 8	15 - 100 / 8	15 - 100 / 7 or 8*4	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8
ound Pressure Le neasured in anec			dB <a></a>	49 / 51	50 / 52	51 / 53	49 / 51	50 / 52	51 / 53	56/61
efrigerant Piping iameter			mm			9.52				9.52*6 Flare
	Gas Pipe		mm			15.88				19.1 Flare
an	Type × Quar					Propeller				1
	Air Flow Rat	e	m <sup>3</sup> /min			11	10			139
			L/s			1,8	383			2,316
			cfm			3,8	384			4,908
	Motor Outp	ut	kW			0.074 +	+ 0.074			0.20 + 0.20
ompressor	Type × Quar					Scroll hermetic				
ompressor	Starting Me					Inve				
	Motor Outp		kW	2.9	3.5	3.9	2.9	3.5	3.9	5.3
	wotor Outp	u		2.5	3.0			3.5	3.9	0.0
	. /II		mm			1,338×1,050	J×330 (+40)			
	ns (H × W × D									
	ns (H × W × D		kg		123			125		141
Veight					123	*3 10 to 52°(	D.B.: When connecti		M PEEY-P20/25/32\/KN	
Veight	ions		kg					ng PKFY-P15/20/25VBI	M, PFFY-P20/25/32VKN	
Veight I,*2 Nominal condit	ions Indoor		kg Outdoor	Piping Length	Level Difference	PFFY-P20,	/25/32VLE(R)M, PEFY-	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s		/ and
Veight 1,*2 Nominal condit Cooling	ions Indoor 27°C DB / 19	°C WB	kg Outdoor 35°C	7.5m	Level Difference	PFFY-P20, *4 When con connectin	/25/32VLE(R)M, PEFY- necting 7 indoor units g 8 indoor units via br	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable	eries indoor unit. ectable City Multi indoo indoor units are 2.	/ and
External Dimension Weight 1,*2 Nominal condit Cooling Heating	ions Indoor	°C WB	kg Outdoor	7.5m	Level Difference	PFFY-P20, *4 When con connectin *5 At least 2	/25/32VLE(R)M, PEFY- inecting 7 indoor units g 8 indoor units via br indoor units must be	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using	eries indoor unit. ectable City Multi indoo indoor units are 2. g branch box.	/ and
Veight 1,*2 Nominal condit Cooling	ions Indoor 27°C DB / 19	°C WB	kg Outdoor 35°C	7.5m	Level Difference	PFFY-P20, *4 When con connectin *5 At least 2	/25/32VLE(R)M, PEFY- necting 7 indoor units g 8 indoor units via br	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using	eries indoor unit. ectable City Multi indoo indoor units are 2. g branch box.	/ and
Veight 1,*2 Nominal condit Cooling	ions Indoor 27°C DB / 19	°C WB	kg Outdoor 35°C	7.5m 3 7.5m	Level Difference Om Om	PFFY-P20, *4 When con connectin *5 At least 2 *6 Liquid pip	/25/32VLE(R)M, PEFY- necting 7 indoor units g 8 indoor units via br indoor units must be e diameter: 12.7mm v	ng PKFYP15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n	eries indoor unit. ectable City Multi indoo indoor units are 2. g branch box. nore than 60m.	A and or units are 3;
Veight ,*2 Nominal condit Cooling leating Aodel	ions Indoor 27°C DB / 19	°C WB	kg Outdoor 35°C	7.5m 3 7.5m	Level Difference	PFFY-P20, *4 When cor connectin *5 At least 2 *6 Liquid pip	/25/32VLE(R)M, PEFY- necting 7 indoor units g 8 indoor units via br- indoor units must be e diameter: 12.7mm v UMY-P125YKME4(-E	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n (S)	eries indoor unit. ectable City Multi indoo indoor units are 2. g branch box.	A and or units are 3;
Veight ,*2 Nominal condit Cooling leating Model Yower Source	ions Indoor 27°C DB / 19	2C WB	kg Outdoor 35°C 7°C DB / 6°C We	7.5m 3 7.5m	Level Difference Om Om P112YKME4(-BS)	PFFY-P20, *4 When cor connectin *5 At least 2 *6 Liquid pip	/25/32VLE(R)M, PEFY- necting 7 indoor units g 8 indoor units wia br- indoor units must be- e diameter: 12.7mm v UMY-P125YKME4(-E ase 380 - 400 - 415V	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n (S)	eries indoor unit. actable City Multi indoo indoor units are 2. g branch box. nore than 60m. PUMY-P140YKI	A and or units are 3;
Veight *2 Nominal condit ooling leating Nodel ower Source cooling Capacity	ions Indoor 27°C DB / 19 20°C DB	¥1	kg Outdoor 35°C 7°C DB / 6°C We	7.5m 3 7.5m	Level Difference           0m           0m           122YKME4(-BS)	PFFY-P20, *4 When cor connectin *5 At least 2 *6 Liquid pip	/25/32VLE(R)M, PEFY- necting 7 indoor units g 8 indoor units via br- indoor units must be e diameter: 12.7mm v UMY-P125YKME4(-E ase 380 - 400 - 415V 14.0	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n (S)	eries indoor unit. sctable City Multi indoc indoor units are 2. g branch box. nore than 60m. PUMY-P140YKI 15.5	/ and or units are 3;
Veight *2 Nominal condit ooling leating Nodel ower Source cooling Capacity	ions Indoor 27°C DB / 19 20°C DB Power Input	¥1	kg Outdoor 35°C 7°C DB / 6°C WB kW kW	7.5m 3 7.5m PUMY-P	Level Difference 0m 0m ********************************	PFFY-P20, *4 When cor connectin *5 At least 2 *6 Liquid pip	/25/32VLE(R)M, PEFY- necting 7 indoor units g 8 indoor units via bry e diameter: 12.7mm v UMY-P125YKME4(-E ase 380 - 400 - 415V 14.0 3.46	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n (S)	eries indoor unit. ectable City Multi indoc indoor units are 2. g branch box. nore than 60m. PUMY-P140YKI 15.5 4.52	/ and or units are 3; ME4(-BS)
Veight *2 Nominal condit ooling leating Nodel ower Source cooling Capacity	ions Indoor 27°C DB / 19 20°C DB Power Input Current Input	¥1	kg <b>Outdoor</b> 35°C 7°C DB / 6°C WE kW kW A	7.5m 3 7.5m PUMY-P	Level Difference 0m 0m 9t112YKME4(-BS) 12.5 2.79 0/ 4.74 / 4.57	PFFY-P20, *4 When cor connectin *5 At least 2 *6 Liquid pip	26/32VLE(R)M, PEFY- inecting 7 indoor units via bri indoor units wia bri e diameter: 12.7mm v UMY-P125YK/ME4(- ase 380 - 400 - 4115V 14.0 3.46 5.84 / 5.55 / 5.35	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n (S)	teries indoor unit. tectable City Multi indoor indoor units are 2. g branch box. more than 60m. PUMY-P140YK 15.5 4.52 7.23 / 6.87	/ and or units are 3; ME4(-BS)
Veight ,*2 Nominal condit icooling leating Addel icover Source icooling Capacity nominal)	ions Indoor 27°C DB / 19 20°C DB Power Input Current Inpu EER	*1 t	kg Outdoor 35°C 7°C DB / 6°C WE kW kW A kW/kW	7.5m 3 7.5m PUMY-P	Level Difference 0m 0m ********************************	PFFY-P20, *4 When cor connectin *5 At least 2 *6 Liquid pip	/25/32V/LE(R)M, PEFY- inedor units via bri indoor units via bri indoor units must be- e diameter: 12.7mm v UMY-P125YK/ME4[-1 ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n (S)	eries indoor unit. ectable City Multi indoc indoor units are 2. g branch box. nore than 60m. PUMY-P140YKI 15.5 4.52	/ and or units are 3; ME4(-BS)
Veight *2 Nominal condit cooling leating Aodel cover Source cooling Capacity nominal) emp. Range	ions Indoor 27°C DB / 19 20°C DB Power Input Current Inpu EER Indoor Temp	*1 t	kg Outdoor 35°C 7°C DB / 6°C WB kW kW kW kW kW kW kW kW kW kW	7.5m 3 7.5m PUMY-P	Level Difference 0m 0m 9t112YKME4(-BS) 12.5 2.79 0/ 4.74 / 4.57	PFFY-P20, *4 When cor connectin *5 At least 2 *6 Liquid pip	/25/32/VLE(R)M, PEFY- naecting 7 indoor units via br- indoor units must be- e diameter: 12.7mm v UMY-P125YKME4[-8 ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n (S)	teries indoor unit. tectable City Multi indoor indoor units are 2. g branch box. more than 60m. PUMY-P140YK 15.5 4.52 7.23 / 6.87	/ and or units are 3; ME4(-BS)
Veight *2 Nominal condit cooling leating Aodel cover Source cooling Capacity nominal) emp. Range	ions Indoor 27°C DB / 19 20°C DB Power Input Current Inpu EER	*1 t	kg Outdoor 35°C 7°C DB / 6°C WE kW kW A kW/kW	7.5m 3 7.5m PUMY-P	Level Difference 0m 0m 9t112YKME4(-BS) 12.5 2.79 0/ 4.74 / 4.57	PFFY-P20, *4 When cor connectin *5 At least 2 *6 Liquid pip	/25/32V/LE(R)M, PEFY- inedor units via bri indoor units via bri indoor units must be- e diameter: 12.7mm v UMY-P125YK/ME41- ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n (S)	teries indoor unit. tectable City Multi indoor indoor units are 2. g branch box. more than 60m. PUMY-P140YK 15.5 4.52 7.23 / 6.87	/ and or units are 3; ME4(-BS)
Veight veight coling leating fodel ower Source coling Capacity nominal) emp. Range f Cooling leating Capacity	ions Indoor 27°C DB / 19 20°C DB Power Input Current Inpu EER Indoor Temp	*1 t	kg Outdoor 35°C 7°C DB / 6°C WB kW kW kW kW kW kW kW kW kW kW	7.5m 3 7.5m PUMY-P	Level Difference 0m 0m 9t112YKME4(-BS) 12.5 2.79 0/ 4.74 / 4.57	PFFY-P20, *4 When cor connectin *5 At least 2 *6 Liquid pip	/25/32/VLE(R)M, PEFY- naecting 7 indoor units via br- indoor units must be- e diameter: 12.7mm v UMY-P125YKME4[-8 ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n (S)	teries indoor unit. tectable City Multi indoor indoor units are 2. g branch box. more than 60m. PUMY-P140YK 15.5 4.52 7.23 / 6.87	/ and or units are 3; ME4(-BS)
Veight ,*2 Nominal condit Cooling leating Aodel Yower Source Cooling Capacity nominal) Temp. Range of Cooling leating Capacity	ions Indoor 27°C DB / 19 20°C DB Power Input Current Inpu EER Indoor Temp	*1 t	kg Outdoor 35°C 7°C DB / 6°C WB kW kW kW kW kW kW kW kW b.B. D.B.	7.5m 3 7.5m PUMY-P	Level Difference Om Om 112YKME4(-BS) 12.5 2.79 14.74 / 4.57 4.48	PFFY-P20, *4 When cor connectin *5 At least 2 *6 Liquid pip	22/522/UE(R)M, PEFY- meeting 7 indoor units via br indoor units must be e diameter: 12.7mm v UMY-P125YKME4[-E ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n (S)	eries indoor unit. extable City Multi indoo: indoor units are 2. g branch box. nore than 60m. PUMY-P140YKI 15.5 4.52 7.23 / 6.87 / 3.43	/ and or units are 3; ME4(-BS)
Veight ,*2 Nominal condit icooling leating Addel icower Source icooling Capacity nominal) icomp. Range of Cooling leating Capacity	ions Indoor 27°C DB / 19 20°C DB Power Input Current Inpu EER Indoor Temp Outdoor Tem	*1 t 	kg <b>Dutdoor</b> 35°C 7°C DB / 6°C WB kW kW kW kW kW kW kW kW kW kW	7.5m 3 7.5m PUMY-P 4.99	Level Difference Om Om 2112YKME4(-BS) 12.5 2.79 0/4.74 / 4.57 4.48 14.0	PFFY-P20, *4 When cor connectin *5 At least 2 *6 Liquid pip	22/5/22/UE/RIM, PETY- inecting 7 indoor units via br indoor units must be e diameter: 12.7mm v UMY-P125YKME4/E ase 380 - 400 - 4150 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n (S)	teries indoor unit. ectable City Multi indoor indoor units are 2. g branch box. nore than 60m. PUMY-P140YKI 15.5 4.52 7.23 / 6.87, 3.43 18.0	/ A and A and Vr units are 3; VIE4(-BS) / 6.62
Veight ,*2 Nominal condit icooling leating Addel icower Source icooling Capacity nominal) icomp. Range of Cooling leating Capacity	ions Indoor 27°C DB / 19 20°C DB Power Input ER Indoor Temp Outdoor Tem Power Input	*1 t 	kg Outdoor 35°C 7°C DB / 6°C W8 kW kW kW kW kW kW kW kW kW kW	7.5m 3 7.5m PUMY-P 4.99	Level Difference Om Om 112YKME4(-BS) 12.5 2.79 0/4.74 / 4.57 4.48 14.0 3.04 3/5.16 / 4.98	PFFY-P20, *4 When cor connectin *5 At least 2 *6 Liquid pip	/25/32V/LE(R)M, PEFY- meeting 7 indoor units via br indoor units must be e diameter: 12.7mm v UMY+P125YKME4[eB ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n (S)	eries indoor unit. extable City Multi indoo indoor units are 2. g branch box. nore than 60m. PUMY-P140YKK 15.5 4.52 7.23 / 6.87, 3.43 18.0 4.47 7.15 / 6.79,	/ A and A and VIE4(-BS) / 6.62
feight v2 Nominal condit coling eating lodel cover Source coling Capacity cominal) emp. Range f Cooling eating Capacity cominal)	ions Indoor 27°C DB / 19 20°C DB Power Input Current Inpu EER Indoor Temp Outdoor Tem Power Input Current Inpu Cop	*1 t 	kg Outdoor 35°C 7°C DB / 6°C WB kW kW kW kW kW kW kW kW kW kW kW kW kW	7.5m 3 7.5m PUMY-P 4.99	Level Difference 0m 0m 112YKME4(-BS) 12.5 2.79 0/4.74/4.57 4.48 14.0 3.04	PFFY-P20, *4 When cor connectin *5 At least 2 *6 Liquid pip	22/522/VLE(R)M, PEFY- necting 7 indoor units via br indoor units must be e diameter: 12.7mm v UMY-P125YKME4/E ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78 4.28	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n (S)	ieries indoor unit. extable City Multi indoo: indoor units are 2. g branch box. nore than 60m. PUMY:P140YK 15.5 4.52 7.23 / 6.87, 3.43 18.0 4.47	/ A and A and VIE4(-BS) / 6.62
Veight veight coling leating lodel ower Source coling Capacity nominal) emp. Range teating Capacity nominal) emp. Range	ions Indoor 27°C DB / 19 20°C DB Power Input Current Inpu EER Indoor Temp Outdoor Temp Outdoor Temp Current Input Current Input COP Indoor Temp	*1 t 	kg Outdoor 35°C 7°C DB / 6°C WB kW kW kW kW kW kW kW kW kW kW	7.5m 3 7.5m PUMY-P 4.99	Level Difference Om Om 112YKME4(-BS) 12.5 2.79 0/4.74 / 4.57 4.48 14.0 3.04 3/5.16 / 4.98	PFFY-P20, *4 When cor connectin *5 At least 2 *6 Liquid pip	//2/5/22/UL/E/RIM, PEFY- indoor units via br indoor units via br indoor units must be e diameter: 12.7mm v UMY-P125YKME4/E ase 380 - 400 - 4150V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78 4.28 15 to 27°C	ng PKFY-P15/20/25VBI P-VMA3, M, S and P s via branch box, conne anch box, connectable connected when using when piping length is n (S)	eries indoor unit. extable City Multi indoo indoor units are 2. g branch box. nore than 60m. PUMY-P140YKK 15.5 4.52 7.23 / 6.87, 3.43 18.0 4.47 7.15 / 6.79,	/ A and A and Vr units are 3; VIE4(-BS) / 6.62
Veight veight coling leating lodel ower Source coling Capacity nominal) emp. Range f Cooling leating Capacity nominal) emp. Range f Heating	ions Indoor 27°C DB / 19 20°C DB Power Input Current Inpu EER Indoor Temp Outdoor Temp Outdoor Temp Outdoor Temp Outdoor Temp	*1 t : :pp.*3 *2 t : : : : : : : :	kg Outdoor 35°C 7°C DB / 6°C WB kW kW kW kW kW kW kW kW kW kW kW kW kW	7.5m 3 7.5m PUMY-P 4.99	Level Difference Om Om 112YKME4(-BS) 12.5 2.79 0/4.74 / 4.57 4.48 14.0 3.04 3/5.16 / 4.98	PFF+P20 *4 When con- connectin *5 At least 2 *6 Liquid P 3-ph	/25/32V/LE(R)M, PEFY- inedor units via br indoor units must be e diameter: 12.7mm v UMY-P122Y/KME41- ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78 4.28 15 to 27°C -20 to 15°C	ng PKFYP15/20/25VBI PVMA3, M, S and P s via branch box, connen anch box, connenctable connectable connectable sonn	eries indoor unit. extable City Multi indoo indoor units are 2. g branch box. nore than 60m. PUMY-P140YKK 15.5 4.52 7.23 / 6.87, 3.43 18.0 4.47 7.15 / 6.79,	/ A and A and Vr units are 3; VIE4(-BS) / 6.62
Veight Ve	ions Indoor 27°C DB / 19 20°C DB Power Input Current Input EER Indoor Temp Outdoor Ten Power Input COP Indoor Temp Outdoor Temp Outdoor Temp	*1 t :p.*3 *2 t :p.	kg Outdoor 35°C 7°C DB / 6°C WE kW kW kW A kW/kW W.B. D.B. kW kW kW kW kW kW kW kW kW kW	7.5m 7.5m PUMY-P 4.99 5.43	Level Difference Om Om 112YKME4(-BS) 12.5 2.79 0/4.74 / 4.57 4.48 14.0 3.04 3/5.16 / 4.98 4.61	PFF+P20 *4 When con- connectin *5 At least 2 *6 Liquid P 3-ph	/25/32/VLE(R)M, PEFY- meeting 7 indoor units via br indoor units must be e diameter: 12.7mm v UMYP125YKME4[e] ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78 4.28 15 to 27°C -20 to 15°C	ng PKFYP15/20/25VBI PVMA3, M, S and P s via branch box, connen anch box, connenctable connectable connectable sonn	ieries indoor unit. extable City Multi indoo indoor units are 2. g branch box. nore than 60m. PUMY-P140YKI 15.5 4.52 7.23 / 6.87, 3.43 8.0 4.47 7.15 / 6.79, 4.03	A and A and or units are 3; ME4(-BS) (6.62 (6.55
Veight **2 Nominal condit isooling leating Addel tower Source cooling Capacity nominal) emp. Range f Cooling leating Capacity nominal) emp. Range f Heating door Unit	ions Indoor 27°C DB / 19 20°C DB Power Input Current Inpu EER Indoor Temp Outdoor Temp Outdoor Temp Outdoor Temp Outdoor Temp	*1 t :p.*3 *2 t :p.	kg Outdoor 35°C 7°C DB / 6°C WB kW kW kW kW kW kW kW kW kW kW	7.5m 7.5m PUMY-P 4.99 5.43	Level Difference 0m 0m 112YKME4(-BS) 12.5 2.79 14.0 3.04 14.0 3.04 15.16 / 4.98 4.61 0 - 140 / 9	PFF+P20 *4 When con- connectin *5 At least 2 *6 Liquid P 3-ph	/25/32/VLE(R)M, PEFY- meeting 7 indoor units via br indoor units must be e diameter: 12.7mm v UMY-P125YKME4[€ 8 as 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78 4.28 15 to 27°C -20 to 15°C 30% of outdoor unit 10 - 140 / 10	ng PKFYP15/20/25VBI PVMA3, M, S and P s via branch box, connen anch box, connenctable connectable connectable sonn	eries indoor unit. excluble City Multi indoot indoor units are 2. g branch box. nore than 60m. PUMY.P140YKI 15.5 4.52 7.23 / 6.87 3.43 18.0 4.47 7.15 / 6.79 4.03 10 - 140 /	A and A and or units are 3; ME4(-BS) (6.62 (6.55
Veight Ve	ions Indoor 27°C DB / 19 20°C DB Power Input Current Inpu EER Indoor Temp Outdoor Tem Power Input COP Indoor Temp Outdoor Temp Outdoor Temp Outdoor Temp Outdoor Temp	*1 t 	kg Outdoor 35°C 7°C DB / 6°C WB kW kW kW kW kW kW kW kW kW kW kW kW kW	7.5m 7.5m PUMY-P 4.99 5.43	Level Difference 0m 0m 11225 2.79 12.5 2.79 14.0 3.04 2.516 / 4.98 4.61 0 - 140 / 9 5 - 100 / 8	PFF+P20 *4 When con- connectin *5 At least 2 *6 Liquid P 3-ph	/25/32/VL/R/N, PEFY- meeting 7 indoor units via br indoor units must be e diameter: 12.7mm v UMY-P125YKME4/E ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78 4.28 15 to 27°C -20 to 15°C 30% of outdoor unit 10 - 140 / 10 15 - 100 / 8	ng PKFYP15/20/25VBI PVMA3, M, S and P s via branch box, connen anch box, connenctable connectable connectable sonn	eries indoor unit. eratable City Multi indoot indoor units are 2. g branch box. nore than 60m. PUMY.P140YKI 15.5 4.52 7.23 / 6.87 / 3.43 18.0 4.47 7.15 / 6.79 / 4.03 10 - 140 / 15 - 100	A and A and or units are 3; ME4(-BS) 6.62 6.55 6.55 7 12 7 8
Veight Ve	ions Indoor 27°C DB / 19 20°C DB Power Input Current Input EER Indoor Temp Outdoor Ten Power Input COP Indoor Temp Outdoor Temp Outdoor Temp Outdoor Temp Outdoor Temp	*1 t 	kg Outdoor 35°C 7°C DB / 6°C WE kW kW kW kW kW kW kW kW kW kW	7.5m 7.5m PUMY-P 4.99 5.43	Level Difference 0m 0m 112YKME4(-BS) 12.5 2.79 14.74 / 4.57 4.48 14.0 3.04 (5.16 / 4.98 4.61 0 - 140 / 9 5 - 100 / 8 0 - 140 / 5	PFF+P20 *4 When con- connectin *5 At least 2 *6 Liquid P 3-ph	/25/32V/LF(R)M, PEFY meeting 7 indoor units g 8 indoor units via br indoor units must be e diameter: 12.7mm v UMY-P122YK/ME4L- ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78 4.28 15 to 27°C -20 to 15°C 30% of outdoor unit 10 - 140 / 10 / 8 10 - 140 / 5	ng PKFYP15/20/25VBI PVMA3, M, S and P s via branch box, connen anch box, connenctable connectable connectable sonn	ieries indoor unit. extable City Multi indoo indoor units are 2. b branch box. nore than 60m. PUMY-P140YK 15.5 4.52 7.23 / 6.87, 3.43 18.0 4.47 7.15 / 6.79, 4.03 10 - 140 / 15 - 100 10 - 140 /	A and A and or units are 3; (6.62 (6.55 (12) (8.55) (12) (8.55) (12) (8.55) (12) (8.55) (12) (8.55) (12) (8.55) (12) (12) (12) (12) (12) (12) (12) (12
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Veight Ve	ions Indoor 27°C DB / 19 20°C DB Power Input Current Input EER Indoor Temp Outdoor Tem Outdoor Tem Outdoor Tem Total Capaci Model / Qua System	*1 t 	kg Outdoor 35°C 7°C DB / 6°C WE kW kW kW kW kW kW kW kW kW kW	7.5m 7.5m 9 Z5m 9 UMY-P 4.99 5.43 5.43 10 11 11 11 11 11	Level Difference 0m 0m 112YKME4(-BS) 12.5 2.79 14.48 14.0 3.04 15.16 / 4.98 4.61 0 - 140 / 9 5 - 100 / 8 0 - 140 / 5 5 - 100 / 5 140 / 3 or 2*4	PFF+P20 *4 When con- connectin *5 At least 2 *6 Liquid P 3-ph	/25/32/VLE(R)M, PEFY- meeting 7 indoor units via br indoor units must be e diameter: 12.7mm v UMY-P125YKME4[e ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78 4.28 15 to 27°C -20 to 15°C 30% of outdoor unit 10 - 140 / 10 15 - 100 / 8 10 - 140 / 5 10 - 140 / 5	ng PKFYP15/20/25VBI PVMA3, M, S and P s via branch box, connen anch box, connenctable connectable connectable sonn	ieries indoor unit. extable City Multi indoo indoor units are 2. b branch box. nore than 60m. PUMY-P140YK 15.5 4.52 7.23 / 6.87, 3.43 18.0 4.47 7.15 / 6.79, 4.03 10 - 140 / 15 - 100 10 - 140 /	A and A and or units are 3; (6.62 (6.55 (6.55 (6.55 (12) (8) (5) (5)
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Veight Ve	ions Indoor 27°C DB / 19 20°C DB Power Input Current Inpu EER Indoor Temp Outdoor Temp Outdoor Tem Outdoor Tem Outdoor Tem Total Capaci Model / Qua Mixed System indoor System indication i	*1 t 	kg Outdoor 35°C 7°C DB / 6°C WE kW kW kW kW kW kW kW kW kW kW	7.5m 7.5m 9 Z5m 9 UMY-P 4.99 5.43 5.43 10 11 11 11 11 11	Level Difference 0m 0m 112YKME4(-BS) 12.5 2.79 0/4.74 / 4.57 4.48 14.0 3.04 14.0 3.04 15.16 / 4.98 4.61 0 - 140 / 9 5 - 100 / 8 0 - 140 / 5 5 - 100 / 5 5 - 100 / 5 140 / 3 or 2*4 100 / 7 or 8*4	PFF+P20 *4 When con- connectin *5 At least 2 *6 Liquid P 3-ph	/25/32/VLE(R)M, PEFV- meeting 7 indoor units via br indoor units wia br ediameter: 12.7mm v UMVYP125YKME4(-12 ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78 4.28 15 to 27°C -20 to 15°C 30% of outdoor unit 10 - 140 / 10 15 - 100 / 8 10 - 140 / 5 15 - 100 / 8 15 - 100 / 8 50 / 52 9.52 Flare 15.88 Flare Propeller Fan × 2 110	ng PKFYP15/20/25VBI PVMA3, M, S and P s via branch box, connen anch box, connenctable connectable connectable sonn	eries indoor unit. eratable City Multi indoo indoor units are 2. g branch box. nore than 60m. PUMY.P140YKI 15.5 4.52 7.23 / 6.87, 3.43 18.0 4.47 7.15 / 6.79, 4.03 10 - 140, 15 - 100 10 - 140, 15 - 100 10 - 140, 15 - 100	A and A and
Veight Ve	ions Indoor 27°C DB / 19 20°C DB 20°C DB Current Input EER Indoor Temp Outdoor Tem Outdoor Tem Outd	*1 t 	kg Outdoor 35°C 7°C DB / 6°C WB kW kW kW kW kW kW kW kW kW kW	7.5m 7.5m 9 Z5m 9 UMY-P 4.99 5.43 5.43 10 11 11 11 11 11	Level Difference 0m 0m 112YKME4(-BS) 12.5 2.79 0/4.74 / 4.57 4.48 14.0 3.04 14.0 3.04 15.16 / 4.98 4.61 0 - 140 / 9 5 - 100 / 8 0 - 140 / 5 5 - 100 / 5 5 - 100 / 5 140 / 3 or 2*4 100 / 7 or 8*4	PFF+P20 *4 When con- connectin *5 At least 2 *6 Liquid P 3-ph	/25/32/VLE(R)M, PEFY- meeting 7 indoor units via br indoor units wia br indoor units must be e diameter: 12.7mm v UMVP125YKME4[e] ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78 4.28 15 to 27°C -20 to 15°C 30% of outdoor unit 10 - 140 / 10 15 - 100 / 8 10 - 140 / 3 15 - 100 / 8 50 / 52 9.52 Flare 15.88 Flare Propeller Fan x 2 110 1,833	ng PKFYP15/20/25VBI PVMA3, M, S and P s via branch box, connen anch box, connenctable connectable connectable sonn	eries indoor unit. eratable City Multi indoo indoor units are 2. g branch box. nore than 60m. PUMY.P140YKI 15.5 4.52 7.23 / 6.87, 3.43 18.0 4.47 7.15 / 6.79, 4.03 10 - 140, 15 - 100 10 - 140, 15 - 100 10 - 140, 15 - 100	A and A and
Veight Ve	ions Indoor 27°C DB / 19 20°C DB 20°C DB Current Input EER Indoor Temp Outdoor Temp Outdoor Temp Outdoor Tem Outdoor Temp Outdoor Tem Total Capaci Model / Qua Mixed System Ethoic room) Liquid Pipe Gas Pipe Type × Quar Air Flow Rat	*1 t ip,*3 *2 t t t t t t t t t t t t t	kg Outdoor 35°C 7°C DB / 6°C WE kW kW A kW/kW W.B. D.B. kW kW kW kW kW kW City Multi Branch Box City Multi Branch Box	7.5m 7.5m 9 Z5m 9 UMY-P 4.99 5.43 5.43 10 11 11 11 11 11	Level Difference 0m 0m 112YKME4(-BS) 12.5 2.79 0/4.74 / 4.57 4.48 14.0 3.04 14.0 3.04 15.16 / 4.98 4.61 0 - 140 / 9 5 - 100 / 8 0 - 140 / 5 5 - 100 / 5 5 - 100 / 5 140 / 3 or 2*4 100 / 7 or 8*4	PFF+P20 *4 When con- connectin *5 At least 2 *6 Liquid P 3-ph	/25/32/VLE(R)M, PEFV meeting 7 indoor units g 8 indoor units via br indoor units must be e diameter: 12.7mm v UMY-P125YK/ME4L ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78 4.28 15 to 27°C -20 to 15°C 10 / 160 / 3 15 - 100 / 5 15 - 100 / 8 10 - 140 / 3 15 - 100 / 8 10 - 140 / 3 15 - 100 / 8 50 / 52 9.52 Flare 15.88 Flare Propeller Fan × 2 110 1,833 3,884	ng PKFYP15/20/25VBI PVMA3, M, S and P s via branch box, connen anch box, connenctable connectable connectable sonn	eries indoor unit. eratable City Multi indoo indoor units are 2. g branch box. nore than 60m. PUMY.P140YKI 15.5 4.52 7.23 / 6.87, 3.43 18.0 4.47 7.15 / 6.79, 4.03 10 - 140, 15 - 100 10 - 140, 15 - 100 10 - 140, 15 - 100	A and A and
Veight veight veight volume vo	ions Indoor 27°C DB / 19 20°C DB 20°C DB Current Input EER Indoor Temp Outdoor	*1 p.*3 *2 t t r pp. ryp. ryp. ty ntity granch 30x units tity tity tity e e	kg Outdoor 35°C 7°C DB / 6°C WB kW kW kW kW kW kW kW kW kW kW	7.5m 7.5m 9 Z5m 9 UMY-P 4.99 5.43 5.43 10 11 11 11 11 11	Level Difference 0m 0m 112YKME4(-BS) 12.5 2.79 0/4.74 / 4.57 4.48 14.0 3.04 14.0 3.04 15.16 / 4.98 4.61 0 - 140 / 9 5 - 100 / 8 0 - 140 / 5 5 - 100 / 5 5 - 100 / 5 140 / 3 or 2*4 100 / 7 or 8*4	PFF+P20  *4 When correction *5 At least 2 *6 Liquid pip  D 3-ph 50 to 1 50 to 1	/25/32/VLE(R)M, PEFY g 6 Indoor units via br indoor units must be e diameter: 12.7mm v UMY-P122YK/ME4L ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C -6 to 52°C -16.0 3.7/4 6.31 / 6.00 / 5.78 4.28 15 to 27°C -20 to 15°C 30% of outdoor unit 10 - 140 / 10 15 - 100 / 8 10 - 140 / 5 15 - 100 / 8 10 - 140 / 3 15 - 100 / 8 50 / 52 9.52 Flare Propeller Fan × 2 110 1,833 3.884 0.074 + 0.074	ng PKFYP15/20/25VBI P-VMA3, M, S and P s via branch box, conne- nach box, conne- sonnectable connectable sonnectable 50Hz 50Hz 50Hz 50Hz 50Hz 50Hz 50Hz 50Hz	eries indoor unit. eratable City Multi indoo indoor units are 2. g branch box. nore than 60m. PUMY.P140YKI 15.5 4.52 7.23 / 6.87, 3.43 18.0 4.47 7.15 / 6.79, 4.03 10 - 140, 15 - 100 10 - 140, 15 - 100 10 - 140, 15 - 100	A and A and
Veight Ve	ions Indoor 27°C DB / 19 20°C DB Current Input EER Indoor Temp Outdoor Ten Outdoor Ten Total Capaci Model / Que thoic room) Liquid Pipe Gas Pipe Type × Quar Motor Outp Type × Quar	*1 t pp.*3 *2 t t t pp. ty ntity 3ranch 3ox units tity tity ie units	kg Outdoor 35°C 7°C DB / 6°C WE kW kW A kW/kW W.B. D.B. kW kW kW kW kW kW City Multi Branch Box City Multi Branch Box	7.5m 7.5m 9 Z5m 9 UMY-P 4.99 5.43 5.43 10 11 11 11 11 11	Level Difference 0m 0m 112YKME4(-BS) 12.5 2.79 0/4.74 / 4.57 4.48 14.0 3.04 14.0 3.04 15.16 / 4.98 4.61 0 - 140 / 9 5 - 100 / 8 0 - 140 / 5 5 - 100 / 5 5 - 100 / 5 140 / 3 or 2*4 100 / 7 or 8*4	PFF+P20  *4 When correction *5 At least 2 *6 Liquid pip  D 3-ph 50 to 1 50 to 1	/25/32/VLE(R)M, PEFY- meeting 7 indoor units via br indoor units wia br indoor units must be e diameter: 12.7mm v UMYP125YKME4[e] ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78 4.28 15 to 27°C -20 to 15°C 30% of outdoor unit 10 - 140 / 10 15 - 100 / 8 10 - 140 / 3 15 - 100 / 8 15 - 100 / 8 50 / 52 9.52 Flare 15.88 Flare Propeller Fan x 2 110 1,833 3,884 0.074 + 0.074	ng PKFYP15/20/25VBI P-VMA3, M, S and P s via branch box, conne- nach box, conne- sonnectable connectable sonnectable 50Hz 50Hz 50Hz 50Hz 50Hz 50Hz 50Hz 50Hz	eries indoor unit. eratable City Multi indoo indoor units are 2. g branch box. nore than 60m. PUMY.P140YKI 15.5 4.52 7.23 / 6.87, 3.43 18.0 4.47 7.15 / 6.79, 4.03 10 - 140, 15 - 100 10 - 140, 15 - 100 10 - 140, 15 - 100	A and A and
Veight veight veight volume vo	ions Indoor 27°C DB / 19 20°C DB 20°C DB Current Input EER Indoor Temp Outdoor	*1 t pp.*3 *2 t t t pp. ty ntity 3ranch 3ox units tity tity ie units	kg Outdoor 35°C 7°C DB / 6°C WE KW KW KW KW KW KW B. D.B. KW KW KW KW KW KW City Multi Branch Box City Multi Branch Box	7.5m 7.5m 9 Z5m 9 UMY-P 4.99 5.43 5.43 10 11 11 11 11 11	Level Difference 0m 0m 112YKME4(-BS) 12.5 2.79 0/4.74 / 4.57 4.48 14.0 3.04 14.0 3.04 15.16 / 4.98 4.61 0 - 140 / 9 5 - 100 / 8 0 - 140 / 5 5 - 100 / 5 5 - 100 / 5 140 / 3 or 2*4 100 / 7 or 8*4	PFF+P20  *4 When correction *5 At least 2 *6 Liquid pip  D 3-ph 50 to 1 50 to 1	/25/32/VLE(R)M, PEFY g 6 Indoor units via br indoor units must be e diameter: 12.7mm v UMY-P122YK/ME4L ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C -6 to 52°C -16.0 3.7/4 6.31 / 6.00 / 5.78 4.28 15 to 27°C -20 to 15°C 30% of outdoor unit 10 - 140 / 10 15 - 100 / 8 10 - 140 / 5 15 - 100 / 8 10 - 140 / 3 15 - 100 / 8 50 / 52 9.52 Flare Propeller Fan × 2 110 1,833 3.884 0.074 + 0.074	ng PKFYP15/20/25VBI P-VMA3, M, S and P s via branch box, conne- nach box, conne- sonnectable connectable sonnectable 50Hz 50Hz 50Hz 50Hz 50Hz 50Hz 50Hz 50Hz	eries indoor unit. eratable City Multi indoo indoor units are 2. g branch box. nore than 60m. PUMY.P140YKI 15.5 4.52 7.23 / 6.87, 3.43 18.0 4.47 7.15 / 6.79, 4.03 10 - 140, 15 - 100 10 - 140, 15 - 100 10 - 140, 15 - 100	A and A and
Veight Ve	ions Indoor 27°C DB / 19 20°C DB Current Input EER Indoor Temp Outdoor Ten Outdoor Ten Total Capaci Model / Que thoic room) Liquid Pipe Gas Pipe Type × Quar Motor Outp Type × Quar	*1 t 	kg Outdoor 35°C 7°C DB / 6°C WE KW KW KW KW KW KW B. D.B. KW KW KW KW KW KW City Multi Branch Box City Multi Branch Box	7.5m 7.5m 9 Z5m 9 UMY-P 4.99 5.43 5.43 10 11 11 11 11 11	Level Difference 0m 0m 112YKME4(-BS) 12.5 2.79 0/4.74 / 4.57 4.48 14.0 3.04 14.0 3.04 15.16 / 4.98 4.61 0 - 140 / 9 5 - 100 / 8 0 - 140 / 5 5 - 100 / 5 5 - 100 / 5 140 / 3 or 2*4 100 / 7 or 8*4	PFF+P20  *4 When correction *5 At least 2 *6 Liquid pip  D 3-ph 50 to 1 50 to 1	/25/32/VLE(R)M, PEFY- meeting 7 indoor units via br indoor units wia br indoor units must be e diameter: 12.7mm v UMYP125YKME4[e] ase 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78 4.28 15 to 27°C -20 to 15°C 30% of outdoor unit 10 - 140 / 10 15 - 100 / 8 10 - 140 / 3 15 - 100 / 8 15 - 100 / 8 50 / 52 9.52 Flare 15.88 Flare Propeller Fan x 2 110 1,833 3,884 0.074 + 0.074	ng PKFYP15/20/25VBI P-VMA3, M, S and P s via branch box, conne- nach box, conne- sonnectable connectable sonnectable 50Hz 50Hz 50Hz 50Hz 50Hz 50Hz 50Hz 50Hz	eries indoor unit. eratable City Multi indoo indoor units are 2. g branch box. nore than 60m. PUMY.P140YKI 15.5 4.52 7.23 / 6.87, 3.43 18.0 4.47 7.15 / 6.79, 4.03 10 - 140, 15 - 100 10 - 140, 15 - 100 10 - 140, 15 - 100	A and A and
Veight ,*2 Nominal condit Cooling leating	ions Indoor 27°C DB / 19 20°C DB 20°C DB ER Indoor Temp Outdoor Temp Outdoor Temp Outdoor Tem Outdoor Temp Outdoor Tem Total Capaci Model / Qua Mixed System Cop Indoor Temp Outdoor Tem Total Capaci Model / Qua Mixed System Cop Indoor Temp Outdoor Tem Total Capaci Model / Qua Mixed System Cop Indoor Temp Outdoor Tem Total Capaci Model / Qua Mixed System Cop Indoor Temp Outdoor Tem Total Capaci Model / Qua Mixed System Cop Indoor Tem Total Capaci Model / Qua Mixed System Cop Indoor Tem Type × Quar Starting Me Motor Outp	*1 t 	kg Outdoor 35°C 7°C DB / 6°C WB kW kW kW A kW/kW D.B. kW kW kW kW A kW/kW D.B. kW kW kW City Multi Branch Box City Multi Branch Box City Multi Branch Box dB <a> mm mm mm</a>	7.5m 7.5m 9 Z5m 9 UMY-P 4.99 5.43 5.43 10 11 11 11 11 11	Level Difference 0m 0m 112YKME4(-BS) 12.5 2.79 12.5 2.79 14.4 14.0 3.04 14.0 3.04 15.16 / 4.98 4.61 0 - 140 / 9 5 - 100 / 8 0 - 140 / 5 5 - 100 / 5 100 / 5	PFF+P20 *4 When con- connectin *5 At least 2 *6 Liquid 2 P 3-ph 50 to 1 50 to 1	/25/32/VLE(R)M, PEFY- meeting 7 indoor units via br indoor units wia br indoor units must be e diameter: 12.7mm v UMY-P125YKME4(-E 3e 380 - 400 - 415V 14.0 3.46 5.84 / 5.55 / 5.35 4.05 15 to 24°C -5 to 52°C 16.0 3.74 6.31 / 6.00 / 5.78 4.28 15 to 27°C -20 to 15°C 30% of outdoor unit 10 - 140 / 10 15 - 100 / 8 15 - 100 / 8 15 - 100 / 8 50 / 52 9.52 Flare 15.88 Flare Propeller Fan x 2 110 1,833 3,884 0.074 + 0.074 1 hermetic compress Inverter	ng PKFYP15/20/25VB P-VMA3, M, S and P s via branch bax, conne anch bax, connenctable connectable connectable sonne	eries indoor unit. excluble City Multi indoo indoor units are 2. g branch box. nore than 60m. PUMY-P140YKI 15.5 4.52 7.23 / 6.87 / 3.43 18.0 4.47 7.15 / 6.79 / 4.03 10 - 140 / 15 - 100 10 - 140 / 15 - 100 15 - 100 15 - 100 15 - 100 10 - 140 / 15 - 100 15 - 100 15 - 100 15 - 100 10 - 140 / 15 - 100 10 - 140 / 15 - 100 10 - 140 / 15 - 100 15 - 100 15 - 100 15 - 100 16 - 100 17 - 100 17 - 100 / 17 - 100 / 15 - 100 10 - 140 / 15 - 100 15 - 100	/ A and A and or units are 3; ME4(-BS) / 6.62 / 6.55 / 12 / 8 / 5 / 5 / 3 / 8

*1,*2 Nominal condit	ions			
	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 PKFYP15/20/25/BM, PFFYP20/25/32VKM and PFFYP20/25/32VLE(R)M, PEFYP-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.

Heating	20°C DB	7°C DE	3/6°CWB	7.5m 0m	1	*5 At least 2 indoor uni
Туре					Branch Box	
Model Name	•			PAC-MK54BC		PAC-MK34BC
Connectable	Number of Indoo	or Units		Maximum 5		Maximum 3
Power Supp	ly (from outdoor	unit)		~ / N, 220 / 230 / 24	10 V, 50 Hz, ~ /	N, 220 / 230 V, 60 Hz
Input			kW		0.003	
Running Cur	rent		A		0.05 (Max. 6)	
Dimensions		H × W × D	mm		$170 \times 450 \times 28$	30
Weight			kg	7.4		6.7
Piping	Branch	Liquid	mm	ø6.35 × 5		ø6.35 × 3
Connection	[Indoor Side]	Gas	mm	ø9.52 × 4, ø12.7 × 1		ø9.52 × 3
(Flare)	Main	Liquid	mm		ø9.52	
	[Outdoor Side]	Gas	mm		ø15.88	

mm

The piping connection size differs according to the type and capacity of outdoor/indoor units.
 Match the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of box does not match the piping connection size of outdoor/indoor unit, use optional different-diameter (deformed) joints to the branch box side.
(Connect deformed joint directly to the branch box side.)

### Indoor Unit Compatibility Table

**MXZ Series MXZ** Series **MXZ** Series **S** Ser

			MXZ-*3				MXZ-*3										
oor Unit			2F33VF3	2F42VF3	2F53VF(H)3	2F53VFHZ				4F80VF3	4F83VF	4F83VFHZ	5F102VF	6F122VF	2HA40VF	2HA50VF	3HA
series	Wall- Mounted	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-LN18VG2(W)(V)(R)(B)			•						•		•				
		MSZ-LN25VG2(W)(V)(R)(B)	•								•						
		MSZ-LN35VG2(W)(V)(R)(B)															
		MSZ-LN50VG2(W)(V)(R)(B)						٠		•	•	•					
		MSZ-FT25VG															
		MSZ-FT35VG															
		MSZ-FT50VG															$\vdash$
		MSZ-AP15VG		•	•	•	•	•	•	•	•	•	•	•			
		MSZ-AP20VG	•	•	•	•	•	•	•	•	•	•	•	•			
		MSZ-AP25VG(K)	•	•	•	•	•	•	•	•	•	•	•	•			
				•	•	•	•	•	•	•	•	•	•	•			-
		MSZ-AP35VG(K)		•													-
		MSZ-AP42VG(K)			•	•	•	•	•	•	•	•	•	•			
		MSZ-AP50VG(K)															
		MSZ-AP60VG(K)						•	•	•		•	•	•			
		MSZ-AP71VG(K)															
		MSZ-EF18VG(K)(W)(B)(S)		•	•		•	•	•	•		•	•				
		MSZ-EF22VG(K)(W)(B)(S)															
		MSZ-EF25VG(K)(W)(B)(S)							•	•		•	•				
		MSZ-EF35VG(K)(W)(B)(S)						•					•				
		MSZ-EF42VG(K)(W)(B)(S)			•		•	•	•	•		•	٠	•			
		MSZ-EF50VG(K)(W)(B)(S)															1
		MSZ-BT20VG(K)		•	•	•	•	•	•	•	•	•	•	•			
		MSZ-BT25VG(K)	•	•	•	•	•	•	•	•	•	•	•	•			
		MSZ-BT25VG(K) MSZ-BT35VG(K)	•	•	•	•	•	•	•	•	•	•	•	•			-
				•	-	-	-	-	-	•		•	•	-			-
		MSZ-BT50VG(K)															
		MSZ-HR25VF													•	•	
		MSZ-HR35VF															
		MSZ-HR42VF														•	
		MSZ-HR50VF															
		MSZ-HR60VF															
		MSZ-HR71VF															
	Floor-	MFZ-KT25VG	•	•	•	•	•		•	•	•	•	•	•			
	Standing	MFZ-KT35VG			•				•			•	•				
		MFZ-KT50VG									•	•	٠				
	1-way	MLZ-KP25VF					•										
	Cassette	MLZ-KP35VF	-	•	•	•	•	•	•	•	•	•	•	•			
		MLZ-KP50VF		-			•	•	•	•	•	•	•	•			
eries	2×2	SLZ-M15FA	•	•	•	•	•	•	•	•	•	•	•	•			
51105	Cassette						-	-		•	•	•	•	•			-
		SLZ-M25FA		•	•	•	•	•	•	-	-	-	-	-			
		SLZ-M35FA		•	•	•	•	•	•	•	•	•	•	•			
		SLZ-M50FA										•	•				
	Ceiling- Concealed	SEZ-M25DA*2	•	•	•	•	•	•	•			•		•			
	Concealed	SEZ-M25DAL <sup>*2</sup>															
		SEZ-M35DA		•	•	•	•	•	•	•		•	•	•			
		SEZ-M35DAL				•					•						
		SEZ-M50DA					•	•		•		•	•	•			
		SEZ-M50DAL															
		SEZ-M60DA						•	•	•	٠	٠	٠	٠			
		SEZ-M60DAL						•	•	•	•	•		•			
		SEZ-M71DA							-		•	•	•	•			
		SEZ-M71DA									•	•	•	•			
eries	Coilina								•								-
nes	Ceiling- Suspended	PCA-M50KA					•	•		•							-
		PCA-M60KA															
		PCA-M71KA															
	Ceiling-	PEAD-M50JA					•*1	•*1	•*1								
	Concealed	PEAD-M50JAL					•*1	•*1	•*1	•							
		PEAD-M60JA															
		PEAD-M60JAL															
		PEAD-M71JA															
		PEAD-M71JAL															1

\*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.

			MXZ-*3	MXZ-*3	MXZ-*3	MXZ-*3	MXZ-*3	MXZ-*3	MXZ-*3	MXZ-*3	MXZ-*3	MXZ-*3	MXZ-*3	MXZ-*3	MXZ
oor Unit			2D33VA			2E53VAHZ	3E54VA	3E68VA	4E72VA	4E83VA	4E83VAHZ			2DM40VA	
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-AP15VG*7													
		MSZ-AP20VG*7			•	•		•	•	•		•	•		
		MSZ-AP25VG*7							•	•		•			
		MSZ-AP35VG*7		•	•	•	•	•	•	•	•	•	•		
		MSZ-AP42VG*7			•	•		•	•	•	•	•	•		
		MSZ-AP50VG*7			•	•	•	•	•	•	•	•	•		
		MSZ-EF18VG(W)(B)(S)			•	•	•	•	•	•	•	•	•		
		MSZ-EF22VG(W)(B)(S)			•	•			•			•	•		
		MSZ-EF25VG(W)(B)(S)													
		MSZ-EF35VG(W)(B)(S)			•					•			•		
		MSZ-EF42VG(W)(B)(S)			•	•	•	•	•	•	•	•	•		
		MSZ-EF50VG(W)(B)(S)			•	•	•	•	•	•	•	•	•		
		MSZ-FH25VE2			•	•	•	•	•	•	•	•	•		
		MSZ-FH35VE2	-	•	•	•	•	•	•	•	•	•	•		
		MSZ-FH50VE2		-	-	-	•	•	•	•	•	•	•		
		MSZ-SF15VA	•	•	•	•	•	•	•	•	•	•	•		
		MSZ-SF20VA	•	•	•	•	•	•	•	•	•	•	•		
		MSZ-SF25VE3	•	•	•	•	•	•	•	•	•	•	•		
		MSZ-SF35VE3		•	•	•	•	•	•	•	•	•	•		
		MSZ-SF42VE3			•	•	•	•	•	•	•	•	•		
		MSZ-SF50VE3			•	•	•	•	•	•	•	•	•		
		MSZ-GF60VE2				-		•	•	•	•	•	•		
		MSZ-GF71VE2								•	•	•	•		
		MSZ-DM25VA											-	•	
		MSZ-DM35VA													
		MSZ-HJ25VA												•	
		MSZ-HJ35VA												•	
		MSZ-HJ50VA													
	Floor-	MFZ-KJ25VE2	*4*5	•*4	•*4		*4	*4							
	Standing	MFZ-KJ35VE2	-	•*4	•*4		•*4	•*4	•	•	•	•	•		
		MFZ-KJ50VE2					•*4	•*4					٠		
	1-way	MLZ-KP25VF		•	•	•			•	•	•	•	•		
	Cassette	MLZ-KP35VF													
		MLZ-KP50VF					•		•	•	•	•	•		
eries	2×2	SLZ-M15FA					-		-	_	-	-			
	Cassette	SLZ-M25FA			•	•									
		SLZ-M35FA	-												
		SLZ-M50FA					•	•	•	•	•	•	•		
	Ceiling-	SEZ-M25DA*2										•	•		
	Concealed	SEZ-M25DAL <sup>*2</sup>	•	•	•	•	•	•	•	•	•	•	•		
		SEZ-M35DA										•			
		SEZ-M35DAL		•	•	•	•	•	•	•	•	•	•		
		SEZ-M50DA		-	-					•		•	•		
		SEZ-M50DAL													
		SEZ-M60DA					-								
		SEZ-M60DAL							•	•		•	•		
		SEZ-M71DA						-	-						
		SEZ-M71DAL								•	•	•	•		
eries	4-way	PLA-M50EA							•	•	•	•	•		
	Cassette	PLA-M60EA						•	•	•	•*6	•	•		
		PLA-M71EA						-	-	•	•*6	•	•		
	Ceiling-	PCA-M50KA					•	•	•	•	•*6	•	•		
	Suspended	PCA-M60KA						•	•	•	•*6	•	•		
		PCA-M71KA							-	•	•*6	•	•		
	Ceiling-	PEAD-M50JA					•*1	•*1	•*1	•*1	• 1*6		•1		
	Concealed	PEAD-M50JAL					• 1	• 1	• 1	• 1	•*1*6	•1	•1		
		PEAD-M60JA								• 1	• 1*6	•1	•1		
		PEAD-M60JAL								• 1	• 1 °	•1	•1		
		PEAD-M71JA								• 1	• 1 6		•1		
															1

\*1 Maximum total current of indoor units: 3A or less.
\*2 SEZ-KD25 cannot be connected with MXZ-2D(E)/3E/4E/5E when total capacity of connected indoor units is equivalent to outdoor capacity (capacity ratio is 1).
\*3 MXZ outdoor units are not designed to operate with a single indoor unit with one-to-one piping work. Please install at least two indoor units.
\*4 When connecting the MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please refer to page 104.
\*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-2E33VAHZ when ampere limit adjustment function is operated.
\*7 Connectable outdoor unit are MXZ-2D33VA-E4, MXZ-2D53VA2-E4, MXZ-2E53VAHZ-E2, MXZ-3E68VA-E2, MXZ-3E68VA-E2, MXZ-4E83VA-E4, MXZ-4E83VAHZ-E3, MXZ-5E102VA-E4.

#### ■ PUMY-SP Series

Branch Box Connection Compatibility Table

Series	Turne	Model Name						Capacity					
Selles	Туре	Model Name	15	18	20	22	25	35	42	50	60	71	100
M series	Wall-Mounted	MSZ-LN•VG2											
		MSZ-AP•VG(K)	●*1		●*1		●*1	•*1	•*1	•*1			
		MSZ-FH•VE2					•			•			
		MSZ-EF•VG(K)		●*1		●*1	●*1	•*1	●*1	●*1			
		MSZ-SF•VA	•		•								
		MSZ-SF•VE3					•		•				
		MSZ-GF•VE2									•		
	Floor-Standing	MFZ-KT•VG					●*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	
	2x2 Cassette	SLZ-M•FA	●*1				●*1	●*1		●*1			
P series	Ceiling-Suspended	PCA-M•KA						•		•	•	٠	•
	4-way Cassette	PLA-M•EA						●*1		•*1	●*1	•*1	•*1
	Ceiling-Concealed	PEAD-M•JA(L)								●*1	●*1	•*1	●*1

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

#### LEV Kit Connection Compatibility Table

Series	1/11 Turne	Model Name					Cap	acity				
Selles	I/U Type	woder name	15	18	20	22	25	35	42	50	60	71
M series	Wall-Mounted	MSZ-LN•VG2					●*1	•*1		●*1		
		MSZ-AP•VG(K)	●*1		•*1		•*1	•*1	●*1	•*1		
		MSZ-FH•VE2					•			•		
		MSZ-EF•VG(K)		●*1		•*1	●*1	●*1	•*1	●*1		
		MSZ-SF•VA	٠		•							
		MSZ-SF•VE3					•	•	•	•		
	Floor-Standing	MFZ-KT•VG					•*1	●*1		•*1		

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

#### CITY MULTI Indoor Unit Compatibility Table for PUMY-SP112/125/140

Series	Туре	Model Name	Capacity													
Selles	туре	Woder Name	P10	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200
CITY	1-way cassette	PMFY-P•VBM-E			•	•	•	•								
MULTI series	2-way cassette	PLFY-P•VLMD-E														
001100	4-way cassette	PLFY-M•VEM-E														
		PLFY-EP•VEM-E *3														
		PLFY-P•VFM-E														
	Ceiling-concealed	PEFY-P•VMR-E-L/R														
		PEFY-P•VMS1(L)-E														
		PEFY-M•VMA(L)-A *2			•		•			•					•	
		PEFY-P•VMA3-E*1														
		PEFY-P•VMHS-E														
		PEFY-P•VMHS-E-F *4														
	Ceiling-suspended	PCFY-P•VKM-E														
	Wall-mounted	PKFY-P•VLM-E			•		•									
		PKFY-P•VKM-E														
	Floor-standing	PFFY-P•VKM-E2			•		•									
		PFFY-P•VLEM-E														
		PFFY-P•VCM-E														
	Lossnay								GUF-50/1	00RD(H)4						

\*1 Authorized connectable indoor units are as follows; PUMY-SP112: PEFY-P25x2+P32x2,PUMY-SP125: PEFY-P25x1+P32x3, PUMY-SP140: PEFY-P32x2+P40x2
\*2 Do not connect Lossnay remote controller(s). (PZ-61DR-E, PZ-60DR-E, PZ-62SF-E, PZ-43SMF-E)
\*3 PLFY-E can not connect more than 3 units
\*4 Connectable outdoor units are PUMY-SP112/125/140V(Y)KMR2(-BS). TH only.

#### ■ PUMY-P Series

Branch Box Connection Compatibility Table

Series	Ture	Model Name						Capacity					
Series	Туре	Model Name	15	18	20	22	25	35	42	50	60	71	100
M series	Wall-Mounted	MSZ-LN•VG2											
		MSZ-AP•VG(K)	•*1		●*1		•	•	•	•			
		MSZ-FH•VE2					•			•			
		MSZ-EF•VG(K)		•		•	•	•	•	•			
		MSZ-SF•VA			•								
		MSZ-SF•VE3						•					
		MSZ-GF•VE2									•		
	Floor-Standing	MFZ-KT•VG						•					
	1-way Cassette	MLZ-KP•VF					•			•			
S series	Ceiling-Concealed	SEZ-M•DA(L)					•	•		•	•	•	
	2×2 Cassette	SLZ-M•FA					•	•		•			
P series	Ceiling-Suspended	PCA-M•KA						•		•	•	•	•
	4-way Cassette	PLA-M•EA						•		•	٠	٠	•
	Ceiling-Concealed	PEAD-M•JA(L)									•		

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

#### LEV Kit Connection Compatibility Table

Series	I/U Type	Model Name					Cap	acity				
Selles	1/0 Type	Woder Name	15	18	20	22	25	35	42	50	60	71
M series	Wall-Mounted	MSZ-LN•VG2										
		MSZ-AP•VG(K)	●*1		●*1		•			•		
		MSZ-FH•VE2					•					
		MSZ-EF•VG(K)					•					
		MSZ-SF•VA	•		•							
		MSZ-SF•VE3					•	•	•	•		
	Floor-Standing	MFZ-KT•VG										

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

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

Series	Туре	Model Name							Cap	acity						
Selles	Type	Woder Name	P10	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200
CITY	1-way cassette	PMFY-P•VBM-E			•	•	•	•								
MULTI series	2-way cassette	PLFY-P•VLMD-E			•	•	•					•				
361163	4-way cassette	PLFY-M•VEM-E			•											
		PLFY-EP•VEM-E *4														
		PLFY-P•VFM-E														
	Ceiling-concealed	PEFY-P•VMR-E-L/R			•		•									
		PEFY-P•VMS1(L)-E														
		PEFY-M•VMA(L)-A			•			•	•	•	•		•	•	•	
		PEFY-P•VMA3-E *1														
		PEFY-P•VMHS-E						•	•	•	•				•	
		PEFY-P•VMHS-E-F														
	Ceiling-suspended	PCFY-P•VKM-E						•								
	Wall-mounted	PKFY-P•VLM-E														
		PKFY-P•VKM-E														
	Floor-standing	PFFY-P•VKM-E2														
		PFFY-P•VLEM-E														
		PFFY-P•VCM-E														
	ATW	PWFY-P•VM-E1 *2														
	Lossnay								GUF-50/1	00RD(H)4						

#### CITY MULTI Indoor Unit Compatibility Table for PUMY-P200

Series	Turne	Model Name							Cap	acity						
Selles	Type 1-way cassette	woder Name	P10	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200
CITY	2-way cassette	PMFY-P•VBM-E			•											
MULTI series	4-way cassette	PLFY-P•VLMD-E														
361163		PLFY-M•VEM-E														
		PLFY-EP•VEM-E *4														
	Ceiling-concealed	PLFY-P•VFM-E														
		PEFY-P•VMR-E-L/R														
		PEFY-P•VMS1(L)-E														
		PEFY-M•VMA(L)-A														
		PEFY-P•VMA3-E *1														
		PEFY-P•VMHS-E														
		PEFY-P•VMHS-E-F														
	Ceiling-suspended	PCFY-P•VKM-E						•		•			•			
	Wall-mounted	PKFY-P•VLM-E														
		PKFY-P•VKM-E														
	Floor-standing	PFFY-P•VKM-E2														
		PFFY-P•VLEM-E			•											
		PFFY-P•VCM-E														
	Lossnay								GUF-50/1	00RD(H)4						

\*1 Authorized connectable indoor units are as follows; PUMY-P112: PEFY-P25x2+P32x2, PUMY-P125: PEFY-P32x4, PUMY-P140: PEFY-P32x3+P40x1, PUMY-P200YKM2: PEFY-P40x2+P63x2
 \*2 Note that connect to snot allowed inside EU countries. PWFY can not connect to PUMY-P200YKM2.
 \*3 Do not connect Losary remote controller(s). (PZ-61DR-E, PZ-60DR-E, PZ-52SF-E, PZ-43SMF-E)
 \*4 PUMY-P112/125/140: PLFY-EP can not connect more than 3 units PUMY-P200: Authorized connectable indoor units are only as follows; PLFY-EP63VEM-Ex3.

# POWERFUL HEATING







### SELECTION

Choose the series that best matches the building layout.

	MSZ-LN VGHZ,	MSZ-FH/MFZ	-KJ VEHZ SE	RIES	
	The line	e-up includes outdoor m	odels 25–50		
Outdoor Unit R32 R410A		ndoor Unit Wall-mounted	<b>R32</b> (R410A)*		<b>R32</b>
MUZ-LN25/35VGHZ2 MUZ-FT25VGHZ MUFZ-KJ25/35VEHZ	UZ-FT35/50VGHZ	MSZ-LN25/35/50V0 (W)(V)(R)(B)	<b>3</b> 2	MSZ-FT25/35/50VG	1-
М	2 IOA Z-LN50VGHZ2 FZ-KJ50VEHZ	Floor-standing		<b>R410A</b> MFZ-KJ25/35/50VE	2
				<b>*</b> R410A is fo	r PUMY connectio
ZUBADAN		ZUBADAN SER	IES		
Т	he line-up includes outdoor	unit models 112-140 cla	ss and three types of	indoor units.	
Outdoor Unit <b>R410A</b>	Indoor Unit				
		Ceiling-cor 32 410A	R32 R410A	Wall-mounted	<b>R32</b> (R410A)
					1
PUHZ-SHW112VHA PUHZ-SHW112/140YHA	PLA Series	PE	AD Series	PKA S	eries
	MXZ	-VAHZ/VFHZ	SERIES		
Outdoor Unit 🤇 🕻		Ī	R32	D	

MXZ-2F53VFHZ

R410A



MXZ-2E53VAHZ

MXZ-4F83VFHZ

**R410A** 



MXZ-4E83VAHZ

# LN VGHZ Single / MXZ, PUMY PUMY SERIES

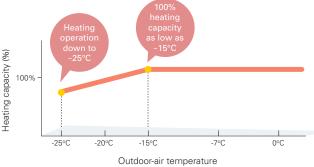
Unlike conventional air conditioning systems, the LN Series don't lose heating capacity when it's cold outside. Original technologies ensure excellent heating performance under extremely low outdoor temperatures and an impressive guaranteed operating range.



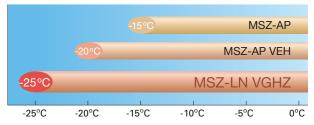


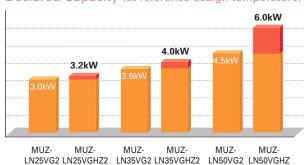
#### **Unparalleled Heating Performance**

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



#### Operating Range



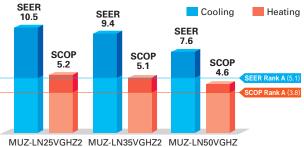


#### Declared Capacity (at reference design temperature)



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

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

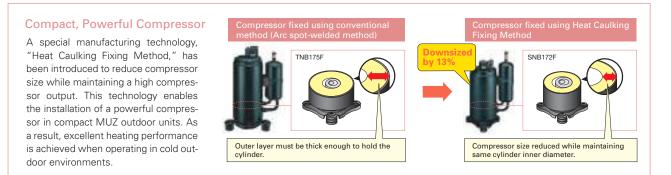


#### MUZ-LN25VGHZ2 MUZ-LN35VGHZ2 MUZ-LN50VGHZ

# 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.





MSZ-LN VGHZ series	EC Fei March
Indoor Unit / Remote Controller <pearl white=""></pearl>	CRUby Red> MSZ-LN25/35/50VG2R COOD DESIGN AWARD 2016 COutdoor Unit CUIDOOR Unit CUIDOOR Unit CUIDOOR Unit CUIDOOR Unit
<natural white=""></natural>	<onyx black="">     Image: Constraint of the second seco</onyx>
Sensor AREA SHEMMI Econo Cool VANE	Instantion       Double Vane       SWNG       SW

Гуре						Inverter Heat Pump					
ndoor Un	it				MSZ-LN25VG2(W)(V)(R)(B)	MSZ-LN35VG2(W)(V)(R)(B)	MSZ-LN50VG2(W)(V)(R)(B)				
Dutdoor L	Jnit				MUZ-LN25VGHZ2	MUZ-LN35VGHZ2	MUZ-LN50VGHZ				
lefrigerar	nt					R32 (*1)	•				
ower	Source				Outdoor Power supply 230/Single/50						
Supply	Outdoor (V/Phase/H	łz)									
Cooling	Design Load			kW	2.5	3.5	5.0				
	Annual Electricity Co	onsumption (*2)		kWh/a	83	130	230				
	SEER (* 4)			<u> </u>	10.5	9.4	7.6				
		Energy Efficier	ncy Class		A+++	A+++	A++				
	Capacity	Rated		kW	2.5	3.5	5.0				
		Min - Max		kW	0.8 - 3.5	0.8 - 4.0	1.4 - 5.8				
	Total Input	Rated		kW	0.485	0.820	1.380				
eating	Design Load	lesign Load			3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)				
Average	Declared Capacity	at reference de	sign temperature	kW kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)				
eason)(*5)		at bivalent tem	° '	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)				
		at operation lim		kW	2.3 (-25°C)	3.1 (–25°C)	4.7 (-25°C)				
	Back Up Heating Ca			kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)				
	Annual Electricity Co			kWh/a	861	1098	1826				
	SCOP (*4)				5.2	5.1	4.6				
		Energy Efficier	ncv Class		A+++	A+++	A++				
	Capacity	Rated		kW	3.2	4.0	6.0				
		Min - Max		kW	0.8 - 6.3	0.9 - 6.6	1.8 - 8.7				
	Total Input	Rated		kW	0.600	0.820	1.480				
peratin	g Current (max)			A	9.9	10.5	15.2				
ndoor	Input Rated			kW	0.027	0.027	0.034				
nit	Operating Current (	Operating Current (max)		A	0.3	0.3	0.4				
	Dimensions	H × W	× D	mm	307 - 890 - 233	307 - 890 - 233	307 - 890 - 233				
	Weight			kg	15.5	15.5	15.5				
	Air Volume	Coolin	q	m <sup>3</sup> /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 <sup>(+3)</sup> (	Dry/Wet)) Heatin	-	m <sup>3</sup> /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)	Coolin	5	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	27 - 31 - 35 - 39 - 46				
	(SLo-Lo-Mid-Hi-SHi *		•	dB(A)	19 - 24 - 29 - 36 - 45	19 - 24 - 29 - 36 - 45	25 - 29 - 34 - 39 - 47				
	Sound Level (PWL)		0	dB(A)	58	58	60				
utdoor	Dimensions	H×W	× D	mm	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330				
nit	Weight			kg	35	36	55				
	Air Volume	Coolin	q	m <sup>3</sup> /min	31.4	33.8	48.8				
		Heatin	-	m <sup>3</sup> /min	27.4	27.4	51.3				
	Sound Level (SPL)	Coolin	•	dB(A)	46	49	51				
		Heatin	•	dB(A)	49	50	54				
	Sound Level (PWL)	Coolin	•	dB(A)	60	61	64				
	Operating Current (		~	A	9.6	10.2	14.8				
	Breaker Size			A	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				
Suarante	ed Operating Range	Coolin		°C	-10 ~ +46	-10 ~ +46	-10 ~ +46				
					10 . 140	-10 ~ +40	-10~ ++0				

(\*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 CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
 (\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
 (\*3) SEN: 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 51-52 for heating (warmer season/colder season) specifications.

# FT VGHZ Series

Unlike conventional air conditioning systems, the FT Series don't lose heating capacity when it's cold outside. Original technologies ensure excellent heating performance under extremely low outdoor temperatures and an impressive guaranteed operating range. Furthermore, the smaller and stylish indoor unit does not give you the limitation of installation location.



MSZ-FT25/35/50VG(K)

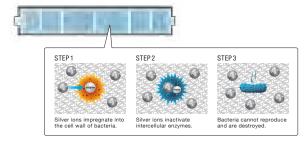
#### **Compact Design**

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



#### Silver-ionized Air Purifier Filter

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



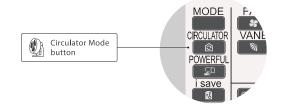
#### Remote Controller with Backlight

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



#### **Circulator Mode**

After reaching the target temperature, heating mode will automatically switch to Circulator mode, which makes the unit go into "fanonly" state and mixes warm air in the room.





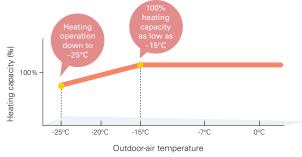
#### Built-in Wi-Fi

(MSZ-FT25/35/50VGK)

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

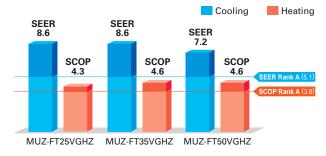
#### Hyper Heating

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



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

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



(MSZ-FT25/35/50VG(K)-SC Scandinavian Model)

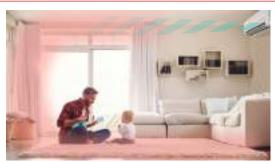


Image is for illustration purposes.

MSZ-FT SERIES	Inverter Coranaco	PAM SEC SEC SCOP Growed Pleng
Indoor Unit	Outdoor Unit	Remote Controller
MSZ-FT25/35/50VG(K)	MUZ-FT25VGHZ MUZ-FT35/50VGHZ	
Econo Cool #/#Tony	kly r kly isave Aco Auto Restart Low Temp Cooling	Group Control Optional Coptional
Wi-Fi i)) Interface Vex.covy	Sevi Failure Recall	

Гуре						Inverter Heat Pump					
idoor Ur	it				MSZ-FT25VG(K)	MSZ-FT35VG(K)	MSZ-FT50VG(K)				
utdoor l	Jnit				MUZ-FT25VGHZ	MUZ-FT35VGHZ	MUZ-FT50VGHZ				
efrigera	nt					R32 (* 1)					
ower	Source				Outdoor power supply 230 / Single / 50						
upply	Outdoor (V/Phase/H	lz)									
ooling	Design Load			kW	2.5	3.5	5.0				
	Annual Electricity Co	onsumpti	on <sup>(*2)</sup>	kWh/a	101	142	243				
	SEER (*4)				8.6	8.6	7.2				
		Energy	Efficiency Class		A+++	A+++	A++				
	Capacity	Rated		kW	2.5	3.5	5.0				
		Min - Ma	ах	kW	0.8 - 3.5	0.8 - 4.0	0.8 - 5.2				
	Total Input	Rated		kW	0.580	0.910	1.630				
eating	Design Load			kW	3.2 (-10°C)	4.0 (-10°C)	5.0 (-10°C)				
verage	Declared Capacity	at refere	at reference design temperature		3.2 (-10°C)	4.0 (-10°C)	5.0 (-10°C)				
eason)(*5)		at bivale	nt temperature	kW	3.2 (-10°C)	4.0 (-10°C)	5.0 (-10°C)				
		at opera	tion limit temperature	kW	3.0 (-25°C)	3.4 (-25°C)	3.6 (-25°C)				
	Back Up Heating Ca	pacity		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)				
	Annual Electricity Co	onsumpti	on <sup>(*2)</sup>	kWh/a	973	1216	1625				
	SCOP (*4)			· · · · ·	4.6	4.6	4.3				
		Energy	Efficiency Class		A++	A++	A+				
	Capacity	Rated		kW	3.2	4.0	5.0				
		Min - Ma	эх	kW	0.9 - 6.2	0.9 - 6.6	0.9 - 7.8				
	Total Input	Rated		kW	0.760	1.020	1.300				
peratin	g Current (max)			A	10.0	11.6	13.9				
door	Input Rated			kW	0.039	0.04	0.047				
nit	Operating Current (r	Operating Current (max)		A		0.4					
	Dimensions		H × W × D	mm	280 - 838 - 229						
	Weight			kg		10					
	Air Volume		Cooling	m³/min	3.9 - 5.9 - 8.2 - 10.4 - 12.3	3.9 - 6.1 - 8.3 - 10.7 - 13.1	5.5 - 7.6 - 9.8 - 12.0 - 13.1				
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> (I	Dry/Wet))	Heating	m³/min	3.9 - 6.3 - 9.0 - 12.0 - 13.2	3.9 - 6.9 - 10.2 - 13.5 - 14.7	5.5 - 8.4 - 11.4 - 14.4 - 15.5				
	Sound Level (SPL)		Cooling	dB(A)	19 - 27 - 36 - 41 - 46	19 - 27 - 36 - 42 - 47	28 - 34 - 40 - 45 - 48				
	(SLo-Lo-Mid-Hi-SHi <sup>(*)</sup>	3)	Heating	dB(A)	19 - 31 - 39 - 46 - 49	19 - 33 - 42 - 49 - 52	28 - 36 - 45 - 51 - 54				
	Sound Level (PWL)			dB(A)		60					
	Dimensions		H × W × D	mm	550 - 800 - 285	714 - 800 - 285	714 - 800 - 285				
nit	Weight			kg	34	40	40				
	Air Volume		Cooling	m³/min	30.4	40.2	40.2				
			Heating	m³/min	30.4	40.2	40.2				
	Sound Level (SPL)		Cooling	dB(A)	46	49	51				
			Heating	dB(A)	49	52	54				
	Sound Level (PWL)		Cooling	dB(A)	60	61	64				
	Operating Current (r	nax)		A	9.6	11.2	13.5				
	Breaker Size			A	12	12	16				
xt.	Diameter		Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52				
ping	Max. Length		Out-In	m	20	30	30				
	Max. Height		Out-In	m	12	15	15				
Juarante	ed Operating Range		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46				
	tdoor]		Heating		-25 ~ +24						

 Image
 C
 -25 ~ +24
 -25 ~ +24
 -25 ~ +24

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

 The GWP of R110.b 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 51-52 for heating (warmer season) specifications.





MFZ-KJ series			Inverter DC Fur Matrix PAAM Concernment
Indoor Unit	$\bigotimes$	Outdoor Unit	Remote Controller
Single / Multi         MFZ-KJ25/35/50VE2	GOOD DESIGN AWARD 2014	UFZ-KJ25/35VEHZ	
Econo Cool White AUTO VANE Anti-silergy Platinum Flare connection Fairure Recall	SMING SAUTO	MUFZ-KJ50VEHZ	at Low Temp Cooling Optional Optional Optional Optional Optional Optional

Туре						Inverter Heat Pump					
ndoor Un	iit				MFZ-KJ25VE2	MFZ-KJ35VE2	MFZ-KJ50VE2				
Outdoor l	Jnit				MUFZ-KJ25VEHZ	MUFZ-KJ35VEHZ	MUFZ-KJ50VEHZ				
Refrigerar	nt					R410A (*1)					
ower	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	onsumpti	ion (*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 - M	ax	kW	0.5 - 3.4	0.5 - 3.7	1.6 - 5.7				
	Total Input	otal 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)		-	ent temperature	kW	3.5	3.6	4.5				
			ation limit temperature	kW	1.6	2.3	3.3				
	Back Up Heating Ca			kW	0.0	0.0	0.0				
	Annual Electricity Co		ion (*2)	kWh/a	1104	1158	1467				
	SCOP (* 4)				4.4	4.3	4.2				
		Energy	Efficiency Class		A+	A+	A+				
	Capacity	Rated		kW	3.4	4.3	6.0				
		Min - M	ax	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)			A	4.42	3.91	3.73				
ndoor	Input Rated			kW	0.016	0.016	0.038				
Init	Operating Current (r	nax)		A	0.17	0.17	0.34				
	Dimensions		H × W × D	mm		600 - 750 - 215					
	Weight			kg	15	15	15				
	Air Volume		Cooling	m <sup>3</sup> /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 <sup>(*3)</sup> (I	Ory/Wet))	Heating	m <sup>3</sup> /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)		1 7	dB(A)	49	50	56				
outdoor	Dimensions		H × W × D	mm	550 - 80		880 - 840 - 330				
Jnit	Weight		1	kg	37	37	55				
	Air Volume		Cooling	m <sup>3</sup> /min	31.3	31.3	45.8				
			Heating	m <sup>3</sup> /min	33.6	33.6	45.8				
	Sound Level (SPL)		Cooling	dB(A)	46	47	49				
			Heating	dB(A)	51	51	51				
	Sound Level (PWL)		Cooling	dB(A)	59	60	63				
	Operating Current (r	nax)		A	9.2	10	13.6				
	Breaker Size			A	10	12	16				
xt.	Diameter		Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7				
	Max. Length		Out-In	m	20	20	30				
Piping											
Piping	Max. Height		Out-In	l m l	12	12	15				
Piping Guarantee	Max. Height ed Operating Range		Out-In Cooling	m ℃	12 -10 ~ +46	12 -10 ~ +46	15 -10 ~ +46				

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# **ZUBADAN** SERIES

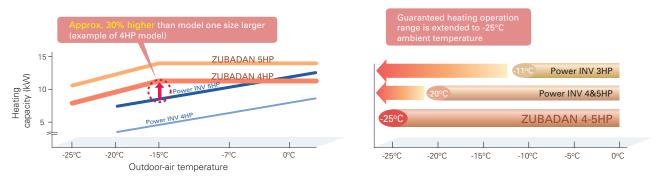
The ZUBADAN Series incorporates an original Flash Injection technology that improves the already high heating capacity of the system. This new member of the series line-up ensures comfortable heat pump-driven heating performance in cold regions.



\* Units in photo are Japanese models. European model specifications are different.

#### Improved Heating Performance

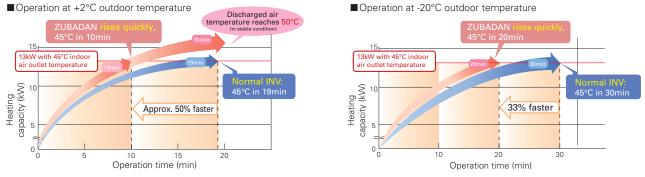
Mitsubishi Electric's unique "Flash Injection" circuit achieves remarkably high heating performance. This technology has resulted in an excellent heating capacity rating in outdoor temperatures as low as -15°C, and the guaranteed heating operation range of the heating mode has been extended to -25°C.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



#### **Enhanced Comfort**

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

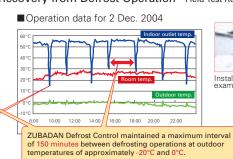
#### Quick Start-up

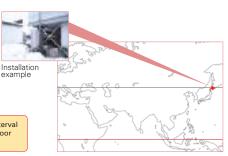


ZUBADAN Defrost Control and Faster Recovery from Defrost Operation Field Test Results: Office building in Asahikawa, Hokkaido, Japan

#### ■Operation data for 25 Jan. 2005

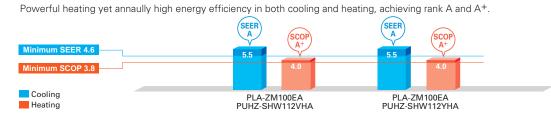




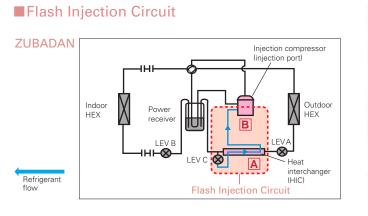


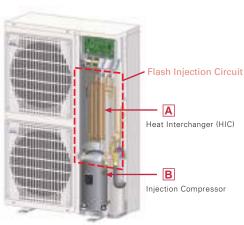
# ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A and A<sup>+</sup>





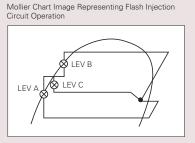
#### Mitsubishi Electric's Flash Injection Technology The Key to High Heating Performance at Low Outdoor Temperatures





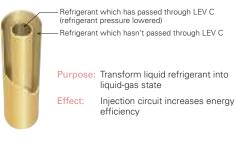
The ZUBADAN Series is equipped with Mitsubishi Electric's original Flash Injection Circuit, which is comprised of a bypass circuit and heat interchanger (HIC). The HIC transforms rerouted liquid refrigerant into a gas-liquid state to lower compression load. This process ensures excellent heating performance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

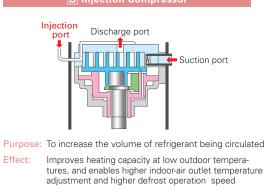


#### A Heat Interchanger (HIC)

#### 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.



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

PLZ-SHW	SENIES				ector Sine Wave DC Scott Pere Earth Magnet DC Fan Matar Vector4	
Indoor U	nit		R.		Outdoor Unit	Remote Controller
R410A Panel	0	10	PLA-Z	M100/125EA	R410A	Enclosed in PLP-6EALM/PLP-6EALME
Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation	PUHZ-SHW112VHA(-BS) PUHZ-SHW112/140YHA(-BS)	
PLP-6EA	necenter	0011301		LICVULION		
PLP-6EAL	1					and the second s
PLP-6EAE	-	1				10.000
PLP-6EALE	~	√				0.00
PLP-6EAJ	1			✓		2.27
PLP-6EAJE	1	√		✓		
PLP-6EALM	1		1			*optional *optional
	1	1	1		1	I

Туре					Inverter Heat Pump		
Indoor Un	nit				M100EA	PLA-ZM125EA	
Outdoor l	Jnit			PUHZ-SHW112VHA	PUHZ-SHW112YHA	PUHZ-SHW140YHA	
Refrigera	nt				R410A*1		
Power	Source				Outdoor power supply		
Supply	Outdoor (V/Phase/H	z)		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	2.857	2.857	5.000	
	EER			-	-	2.50	
		EEL Rank		-	-	-	
	Design Load		kW	10.0	10.0	-	
	Annual Electricity Co	onsumption*2	kWh/a	633	633	-	
	SEER*4			5.5	5.5	-	
		Energy Efficiency Class		А	А	-	
Heating	Capacity	Rated	kW	11.2	11.2	14.0	
Average		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	
Season)	Total Input	Rated	kW	2.667	2.667	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 Ca		kW	1.5	1.5	-	
	Annual Electricity Co	onsumption*2	kWh/a	4420	4420	-	
	SCOP*4			4.0	4.0	-	
		Energy Efficiency Class		A+	A+	-	
Operatin	g Current (max)		Α	35.5	13.5	13.5	
ndoor	Input	Rated	kW	0.07	0.07	0.08	
Jnit	Operating Current (r	nax)	Α	0.47			
	Dimensions <panel></panel>		mm		298-840-840 <40-950-950>	40-840 <40-950-950>	
	Weight <panel></panel>	-	kg	26 <5>	26 <5>	26 <5>	
	Air Volume [Lo-Mi2-N	/li1-Hi]	m³/min	19 - 22 - 25 - 28	19 - 22 - 25 - 28	21 - 24 - 26 - 29	
	Sound Level (SPL) [L	.o-Mi2-Mi1-Hi]	dB(A)	31 - 34 - 37 - 40	31 - 34 - 37 - 40	33 - 36 - 39 - 41	
	Sound Level (PWL)		dB(A)	61	61	62	
Outdoor	Dimensions	H × W × D	mm		1350 - 950 - 330 (+30)		
Unit	Weight	-	kg	120	134	134	
	Air Volume	Cooling	m³/min	100	100	100	
		Heating	m³/min	100	100	100	
	Sound Level (SPL)	Cooling	dB(A)	51	51	51	
		Heating	dB(A)	52	52	52	
	Sound Level (PWL)	Cooling	dB(A)	69	69	69	
	Operating Current (r	nax)	A	35	13	13	
	Breaker Size		A	40	16	16	
Ext.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	
Piping	Max. Length	Out-In	m	75	75	75	
	Max. Height	Out-In	m	30	30	30	
Guaranteed Operating Range Cooling*3			0.0	-15 ~ +46	45 40	15 10	
Guarantee	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	

\*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 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 tricuit yourself or disassemble the product yourself and always ask a professional. \*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located. \*3 Optional air protection guide is required where ambient temperature is lower than –5°C. \*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

macor o	nit				Outdoor Unit	Remote Co	ntroller
Panel	01		PLA-M	100/125EA	R410A	Enclosed in PLP-6EALM/PLP-6EALME	*optional
Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation	PUHZ-SHW112VHA(-BS) PUHZ-SHW112/140YHA(-BS)		
PLP-6EA							
PLP-6EAL	1					and the second se	1000
PLP-6EAE		1				and the second second	a rit
PLP-6EALE	✓	~					÷
PLP-6EAJ	✓			✓			
PLP-6EAJE	✓	~		~		*optional	*optional
	1						
PLP-6EALM PLP-6EALME	1						

Туре					Inverter Heat Pump		
ndoor Ur	it			PLA-N	/100EA	PLA-M125EA	
Outdoor	Jnit			PUHZ-SHW112VHA	PUHZ-SHW112YHA	PUHZ-SHW140YHA	
Refrigera	nt				R410A*1		
Power	Source				Outdoor power supply		
Supply	Outdoor (V/Phase/H	Hz)		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 C	onsumption*2	kWh/a	661	661	-	
	SEER*4			5.3	5.3	_	
		Energy Efficiency Class		A	A	-	
Heating (Average Season)	Capacity	Rated	kW	11.2	11.2	14.0	
		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	
	Total Input	Rated	kW	2.793	2.793	4.000	
	COP			_	_	3.50	
	EEL Rank			_	-	_	
	Design Load			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 Ca		kW	1.5	1.5	_	
	Annual Electricity Co		kWh/a	4445	4445	-	
	SCOP*4			4.0	4.0	-	
		Energy Efficiency Class		A+	A+	-	
Operatin	g Current (max)		A	35.5	13.5	13.7	
ndoor	Input	Rated	kW	0.07	0.07	0.08	
Jnit	Operating Current (		A	0.46 0.46		0.66	
	Dimensions <panel></panel>		mm	298-840-840 <40-950-950>		-	
	Weight <panel></panel>	1	kg	24 <5>	24 <5>	26 <5>	
	Air Volume [Lo-Mi2-	Mi1-Hi]	m <sup>3</sup> /min	19 - 23 - 26 - 29	19 - 23 - 26 - 29	21 - 25 - 28 - 31	
	Sound Level (SPL) [I	-	dB(A)	31 - 34 - 37 - 40	31 - 34 - 37 - 40	33 - 37 - 41 - 44	
	Sound Level (PWL)	*	dB(A)	61	61	65	
Outdoor	Dimensions	H × W × D	mm		1350 - 950 - 330 (+30)		
Unit	Weight	1	kg	120	134	134	
	Air Volume	Cooling	m <sup>3</sup> /min	100	100	100	
		Heating	m <sup>3</sup> /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 (	0	A	35	13	13	
	Breaker Size	-	A	40	16	16	
Ext.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	
Piping	Max. Length	Out-In	m	75	75	75	
	Max. Height	Out-In	m	30	30	30	
Guarante	ed Operating Range	Cooling* <sup>3</sup>	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	
[Outdoor]	,	Heating	°C	-25 ~ +21	-25 ~ +21	-25 ~ +21	
		i iouang		20 121	20121	20 121	

\*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 tricuit yourself or disassemble the product yourself and always ask a professional. \*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located. \*3 Optional air protection guide is required where ambient temperature is lower than –5°C. \*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

PEDZ-SHW JA series	Inverter Veter New Cost Rev Carbon Marcola Cost Veter New Veter-New Veter-Ne	PAM Power Receiver Courte Parts
Indoor Unit	Outdoor Unit	Remote Controller
PEAD-M100JA(L)	R410A	*optional
Demand Control Cowar Wiring Reuse Grad Cycar Cy	Low Temp Silent Ampere Botation Co	*optional *optional *optional

Туре				Inverter H	leat Pump	
Indoor Unit				PEAD-W	1100JA(L)	
Outdoor Unit				PUHZ-SHW112VHA(-BS)	PUHZ-SHW112YHA(-BS)	
efrigera	nt			R41	0A*1	
ower	Source			Outdoor power supply		
upply	Outdoor (V/Phase/H	lz)		VHA:230 / Single / 50	, YHA:400 / Three / 50	
ooling	Capacity	Rated	kW	10.0	10.0	
		Min - Max	kW	4.9 - 11.4	4.9 - 11.4	
	Total Input	Rated	kW	2.924 (2.904)	2.924 (2.904)	
	EER			_	_	
	EEL Rank			-	_	
	Design Load	_1	kW	10.0	10.0	
	Annual Electricity Co	onsumption*2	kWh/a	729 (714)	729 (714)	
	SEER*4	· · · · · · · · · · · · · · · · · · ·		4.8 (4.9)	4.8 (4.9)	
		Energy Efficiency Class		В	В	
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	
	СОР	1		-	-	
		EEL Rank		_	_	
	Design Load		kW	12.7	12.7	
	Declared Capacity	at reference design temperature	kW	11.2	11.2	
	Decidica Supacity	at bivalent temperature	kW	11.2	11.2	
		at operation limit temperature	kW	9.4	9.4	
	Back Up Heating Ca		kW	1.5	1.5	
	Annual Electricity Consumption*2 kWh/a		4664	4664		
	SCOP*4		KVVII/d	3.8	3.8	
	3001	Energy Efficiency Class		A	3.0 A	
neratin	g Current (max)	Lifergy Lifelency class	A	37.7	15.7	
door	Input [Cooling / Heati	ngl Bated	kW	0.25 (0.23) / 0.23	0.25 (0.23) / 0.23	
nit	Operating Current (r		A	2.65	2.65	
	Dimensions	H × W × D	mm	250 - 1400 - 732	250 - 1400 - 732	
	Weight	11.4.1.4.1	kg	41 (40)	41 (40)	
	Air Volume [Lo-Mid-h	-		24.0 - 29.0 - 34.0	24.0 - 29.0 - 34.0	
	External Static Press		m³/min Pa	35 / 50 / 70 / 100 / 150	35 / 50 / 70 / 100 / 150	
	Sound Level (SPL) [L		dB(A)	29 - 34 - 38	29 - 34 - 38	
	Sound Level (SPL)		dB(A)	61	61	
utdoor	Dimensions	H × W × D	mm	1350 - 950 - 330 (+30)	1350 - 950 - 330 (+30)	
nit	Weight		kg	1350 - 950 - 330 (+30) 120	1350 - 950 - 330 (+30)	
	Air Volume	Cooling	ку m³/min	120	134	
	An volume	Heating	m <sup>3</sup> /min	100.0	100.0	
	Sound Level (SPL)	Cooling	dB(A)	51	51	
	Sound Level (SPL)			51	51	
	Sound Level (PWL)	Heating	dB(A) dB(A)	69	69	
	Operating Current (r				13.0	
		1147)	A	35.0	13.0	
	Breaker Size	Liquid (Con	A			
xt. iping	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	
19.119	Max. Length	Out-In	m	75	75	
	Max. Height	Out-In	m	30	30	
i <b>uarante</b> e Dutdoor]	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	
Juluoorj		Heating	°C	-25 ~ +21	-25 ~ +21	

The string of CO2, over a period of 100 years. Never try to interfere with the refrigerant is 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 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 fluid would be product yourself and always ask a professional.
\*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
\*3 Optional air protection guide is required where ambient temperature is lower than -5°C.
\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

PKZ-SHW series	Inverter Vector See Vector	
Indoor Unit	Outdoor Unit	Remote Controller
R410A	R410A	roptional
PKA-M100KA(L)	PUHZ-SHW112VHA(-BS) PUHZ-SHW112/140YHA(-BS)	*optional
Demand Control Occur     Pure White     AUTO VANE     Image: Control Occur     SMNC Struct     Image: Control Occur       COMPO     Image: Control Occur     Image: Control Occur     Image: Control Occur     Image: Control Occur     Image: Control Occur     Image: Control Occur       COMPO     Image: Control Occur     Image: Control Occur     Image: Control Occur     Image: Control Occur	Cooling Silent Restart Cooling Silent Restart Recall	totation ack-up Orener Opener

Туре				Inverter Hea	
ndoor Ur				PKA-M10	
Outdoor I				PUHZ-SHW112VHA(-BS)	PUHZ-SHW112YHA(-BS)
Refrigerant				R4104	
Power	Source			Outdoor pow	
Supply	Outdoor (V/Phase/H	lz)		VHA:230 / Single / 50, Y	'HA:400 / Three / 50
Cooling	Capacity	Rated	kW	10.0	10.0
		Min - Max	kW	4.9 - 11.4	4.9 - 11.4
	Total Input	Rated	kW	2.924	2.924
	Design Load		kW	10.0	10.0
	Annual Electricity Co	onsumption*2	kWh/a	673	673
	SEER*4			5.2	5.2
		Energy Efficiency Class		A	А
leating	Capacity	Rated	kW	11.2	11.2
Average		Min - Max	kW	4.5 - 14.0	4.5 - 14.0
Season)	Total Input	Rated	kW	3.103	3.103
	Design Load		kW	12.7	12.7
	Declared Capacity	at reference design temperature	kW	11.2	11.2
		at bivalent temperature	kW	11.2	11.2
		at operation limit temperature	kW	9.4	9.4
	Back Up Heating Capacity kW		kW	1.5	1.5
ļ.	Annual Electricity Consumption*2 kWh/a		4664	4664	
	SCOP*4			3.8	3.8
		Energy Efficiency Class		A	A
Operatin	g Current (max)	•	Α	35.6	13.6
ndoor	Input	Rated	kW	0.08	0.08
Jnit	Operating Current (r	nax)	А	0.57	0.57
	Dimensions <panel></panel>	H × W × D	mm	365 - 1170 - 295	
	Weight <panel></panel>	1	kg	21	21
	Air Volume [Lo-Mid-Hi]		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
	Dimensions	H × W × D	mm	1350 - 950 - 3	330 (+30)
Jnit	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		A	35.0	13.0
	Breaker Size		Α	40	16
xt.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88
Piping	Max. Length	Out-In	m	75	75
	Max. Height	Out-In	m	30	30
Guarante	ed Operating Range	Cooling* <sup>3</sup>	°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 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 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 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 on how the appliance is used and where it is located.
\*2 Energy consumption guide is required where ambient temperature is lower than -5°C.
\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

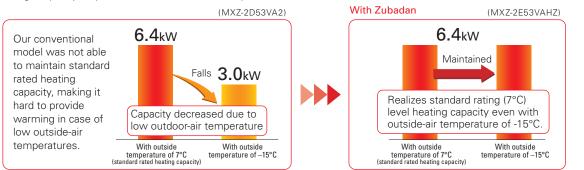
# MXZ-VAHZ SERIES

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



### Standard rated heating capacity is maintained even when the outside-air temperature drops to $-15^{\circ}$ C.

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



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

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

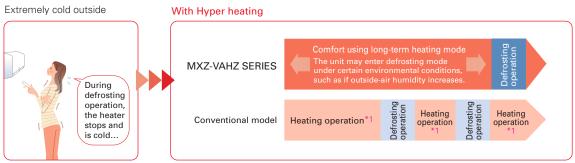
#### Freeze-prevention heater standard equipment

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



#### Continuous heating for long periods

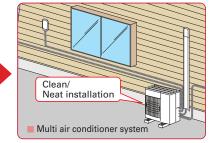
Wasteful defrosting operation suppressed to enable more comfortable long-term continuous heating.



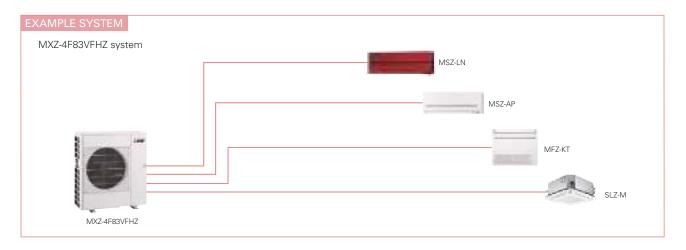
\*1: Conventional model performs continuous heating approximately 30min up to a maximum of 90min.

### 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. Single air conditioner



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



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

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





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

MXZ-VAHZ series	
Outdoor Unit	R32
R32      MXZ-2F53VFHZ	MXZ-4F83VFHZ
R410A         Image: Constraint of the second seco	MXZ-4E83VAHZ

Туре					Inverter H	eat Pump		
Indoor Un	it			Please refer to*4 *5				
Outdoor I	Jnit			MXZ-2F53VFHZ	MXZ-4F83VFHZ	MXZ-2E53VAHZ	MXZ-4E83VAHZ	
Refrigerant			R3	R32*6 R410A*1				
Power Source				Outdoor power supply				
Supply	Outdoor (V/Phase/H	łz)			220 - 230 - 240	DV / Single / 50		
Cooling	Capacity	Rated	kW	5.3	8.3	5.3	8.3	
		Min - Max	kW	1.1 - 6.0	3.5 - 9.2	1.1 - 6.0	3.5 - 9.2	
	Total Input	Rated	kW	1.29	1.90	1.29	2.25	
	Design Load		kW	5.3	8.3	5.3	8.3	
	Annual Electricity Co	onsumption*2	kWh/a	274	398	282	447	
	SEER*4,*7			6.8	7.3	6.5	6.5	
		Energy Efficiency Class*4		A++	A++	A++	A++	
	Capacity	Rated (7°C)	kW	6.4	9.0	6.4	9.0	
(Average		Rated (-7°C)	kW	6.4	9.0	6.4	9.0	
Season)		Rated (-15°C)	kW	6.4	9.0	6.4	9.0	
		Min - Max	kW	1.0 - 7.0	3.5 - 11.6	1.0 - 7.0	3.5 - 11.6	
	Total Input	Rated	kW	1.36	1.70	1.36	1.90	
	Design Load		kW	6.4	10.1	6.4	10.1	
	Declared Capacity	at reference design temperature	kW	6.9	10.6	6.4	9.0	
		at bivalent temperature	kW	7.4	11.5	6.4	9.0	
		at operation limit temperature	kW	4.1	5.7	2.4	2.5	
	Back Up Heating Ca	Back Up Heating Capacity		0.0	0.0	0.0	1.1	
	Annual Electricity Co	onsumption*2	kWh/a	2172	3286	2165	3446	
	SCOP*7			4.1	4.3	4.1	4.1	
		Energy Efficiency Class*4		A+	A+	A+	A+	
Max. Ope	erating Current (Indoo	or+Outdoor)	Α	15.6	28.0	15.6	28.0	
Outdoor	Dimensions	H × W × D	mm	796 × 950 × 330	1048 × 950 × 330	796 × 950 × 330	1048 × 950 × 330	
Unit	Weight		kg	61	86	61	87	
	Air Volume	Cooling	m³/min	43	63	47.0	63.0	
		Heating	m³/min	41	77	47.0	77.0	
	Sound Level (SPL)	Cooling	dB(A)	45	55	45	53	
		Heating	dB(A)	47	57	47	57	
	Sound Level (PWL)	Cooling	dB(A)	55	66	55	66	
	Breaker Size	·	Α	16	30	16	30	
xt.	Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35×4/12.7×1+9.52×3	6.35 × 2 / 9.52 × 2	6.35×4/12.7×1+9.52×3	
Piping	Total Piping Length	(max)	m	30	70	30	70	
	Each Indoor Unit Pip	ping Length (max)	m	20	25	20	25	
	Max. Height		m	15	15	15 (10) * <sup>3</sup>	15 (10) *3	
	Chargeless Length		m	30	70	20	25	
	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
[Outdoor]		Heating	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	

 [Outdoor]
 Heating
 °C
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To ensure full capacity in cold and snowy regions...

## **3 Important Points to Remember When Installing the Outdoor Unit**



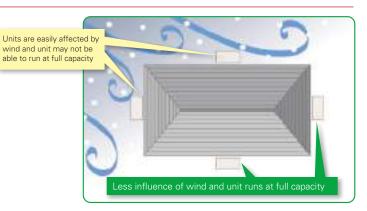
\* RAC/PAC (inc. Air to Water) /MXZ

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.

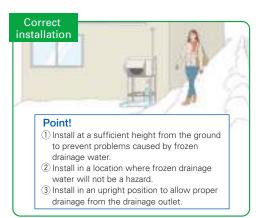




#### Measures for Drainage of Water

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

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



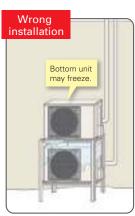




#### Case 2: Multiple units are installed

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





#### **3** Measures for Snow

#### Unit is installed on the ground

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



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] Correct installation Point! Install the snow protection hood or other cover in snowy regions.

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

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

#### CAUTION About disposal of drainage water

When the unit is installed in cold or snowy regions :

Drainage water may freeze in the drain socket/hose and prevent the fan from rotating.



Do not attach a drain socket packaged as an accessory to the unit.

In the case that fitting a drain socket is absolutely necessary, steps must be taken so that the drainage water does not freeze. For more information, please consult Mitsubishi Electric or one of its dealers/resellers.

Arrangement for	[RAC/PAC/MXZ]
snow protection hood	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.
•	I lease consult witsubisiti Electric of one of its dealers/resellers at the time of purchase for details.

# **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.

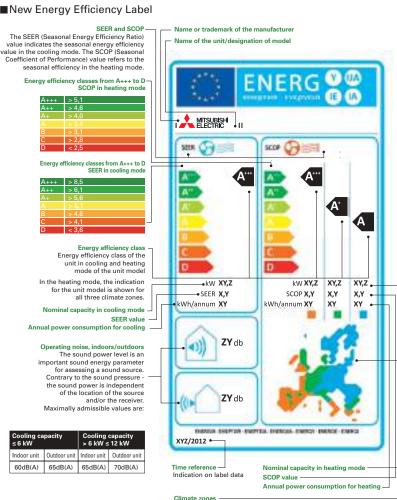
Regulations that apply to air conditioning systems of rated capacity up to 12kW came into effect as of January 1, 2013. Based the use of futureorientated technologies, Mitsubishi Electric is one step ahead of these changes, with our air conditioning systems already achieving compliance with these new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



#### ■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 been stipulated for the EU: warm, moderate, cold. points are homogenous at 12°C, 7°C, 2°C and –7°C.



	Temperat	ure conditions	
Partial	Outdoors		Indoors
load	DB	WB	DB
-	-	-	20°C
100%	2°C	1°C	20°C
64%	7°C	6°C	20°C
29%	12°C	11°C	20°C

	Temperat	ture 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

	Temperat	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

#### ■New Energy Efficiency Label

Energy efficiency classes from A+++ to D SCOP in heating mode A+++ > 5.1 A++ > 4.6 Energy efficiency classes from A+++ to D SEER in cooling mode > 8,5 > 6.1

Energy efficiency class Energy efficiency class of the unit in cooling and heating mode of the unit model In the heating mode, the indication for the unit model is shown for all three climate zones. Nominal capacity in cooling mode

Annual power consumption for co oling

Operating noise, indoors/outdoors The sound power level is an important sound energy parameter for assessing a sound source. Contrary to the sound pressure the sound power is independent of the location of the source and/or the receiver. Maximally admissible values are

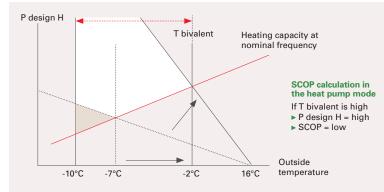
Cooling ca ≤6 kW	pacity	Cooling > 6 kW ≤	
Indoor unit	Outdoor unit	Indoor unit	Outdoor unit
60dB(A)	65dB(A)	65dB(A)	70dB(A)

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.

#### **SEER/SCOP**

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

#### SCOP Calculation



#### Technical Terms with Respect to the SCOP

P design H: Corresponds to a heating load of 100%. The value depends on the selected bivalence point. T design: Outside temperature which determines the P design H point. The latter is determined from the area conditions

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

#### SOUND PRESSURE LEVEL

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

#### Sound Pressure vs Sound Power Level



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

#### Sound power level dB(A)

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

# Inverter INVERTER TECHNOLOGIES

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

#### **INVERTERS – HOW THEY WORK**

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

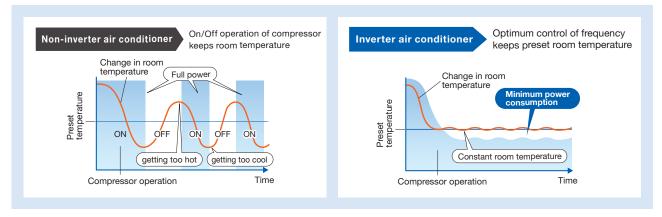
#### **ECONOMIC OPERATION**

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

#### **TRUE COMFORT**

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

#### Inverter operation comparison



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

#### Point 1 Quick & Powerful

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

#### Point 2 Room Temperature Maintained

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

#### **KEY TECHNOLOGIES**

#### **Our Rotary Compressor**

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

#### Our Scroll Compressor

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

#### MORE ADVANTAGES WITH MITSUBISHI ELECTRIC

#### 🕬 Joint Lap DC Motor

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





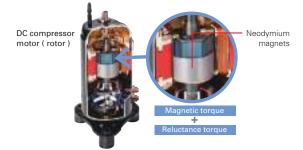
#### Magnetic Flux Vector Sine Wave Drive

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

#### $\bigcirc$

#### Reluctance DC Rotary Compressor

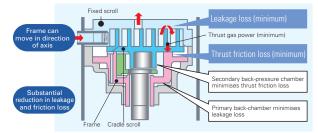
Powerful neodymium magnets are used in the rotor of the reluctance DC motor. More efficient operation is realised by strong magnetic and reluctance torques produced by the magnets.



#### Highly Efficient DC Scroll Compressor

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





#### Heat Caulking Fixing Method

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



#### 🕞 DC Fan Motor

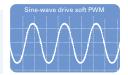
A highly efficient DC motor drives the fan of the outdoor unit. Efficiency is much higher than an equivalent AC motor.

#### ₩₩ Vector-Wave Eco Inverter

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

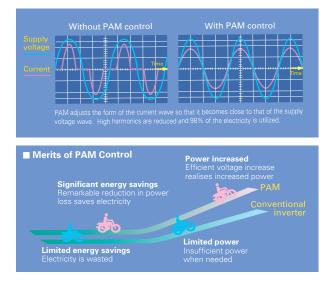
#### Smooth wave pattern

Inverter size has been reduced using 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.



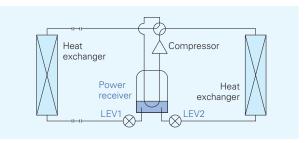
#### PAM PAM (Pulse Amplitude Modulation)

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.



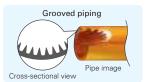
#### Receiver and Twin LEV Control

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.





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



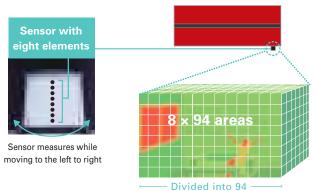
# **COMFORT**

#### 3D i-see Sensor

(Image)

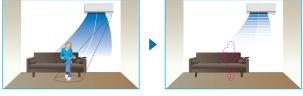
#### 3D i-see Sensor for M SERIES

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



#### No occupancy energy-saving mode

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



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

#### **3D**<sup>7</sup>-see Sensor for S & P SERIES

#### Detects number of people

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

#### Detects people's position

143

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

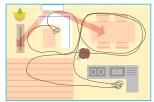
A total of eight sensors rotate a full 360° in 3-minute intervals. In addition to detecting human body temperature, our original algorithm also detects people's positions and the number of people.

#### **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.



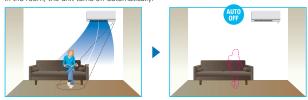
#### Even Airflow \*LN Series only Normal swing mode

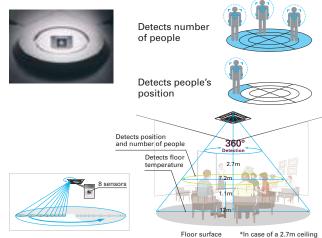


The airflow is distributed equally throughout the room, even to spaces where there is no human movement

#### 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.





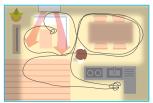
#### \*In case of a 2.7m ceiling

#### **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 ment and furniture positions, and efficiently distributes airflow

## Detects number of people

### Room occupancy energy-saving mode

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

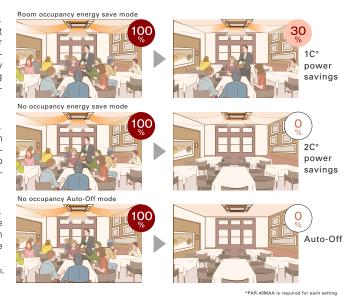
### No occupancy energy-saving mode

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

### No occupancy Auto-OFF mode\*

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

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



## 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-40MAA 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.

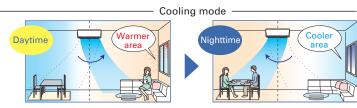
#### When heating

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.



## 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.



## 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.



Temperature distribution (°C)





## Demand Function (Onsite Adjustment)

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

#### [Example: Power Inverter Series]

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

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

✤PUHZ outdoor only

## **AIR 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 also generates antibacterial, antifungal, and deodorant effects.



The oil mist filter prevents oil mist from penetrating into the inner part of the air conditioner.

## Long-life Filter

A special process for the entrapment surface improves the filtering effect, making the maintenance cycle longer than that of units equipped with conventional filters.

## 🔜 Filter Check Signal

Air conditioner operating time is monitored, and the user is notified when filter maintenance is necessary.

## Silver-ionized Air Purifier Filter

Silver-ionized Air Purifier Filter made of non-woven fabric can capture tiny particles. Silver ions and enzymes contained in the filter effectively act on bacteria and allergens and neutralises them.

## **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.



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.

## 號 🕽 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.



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



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

## CONVENIENCE

## **CONVENIENCE**

## 🔝 "i save" Mode

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

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







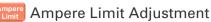
\* Temperature can be preset to 10°C when heating in the "i-save" mode

## 🤗 Auto Changeover

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

## Low-temperature Cooling

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



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.

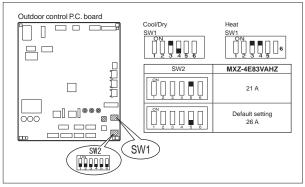
## Auto Restart Auto Restart

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

## 10°C Heating

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

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





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.

## Weekly Built-in Weekly Timer Function

## 🔊 Low-noise Operation (Outdoor Unit)

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



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

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)

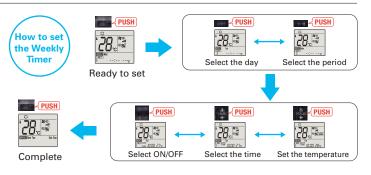
	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
c.00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
6:00			Automatically change	s to high-power opera	tion at wake-up time		
8:00							
(0:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00 14:00		Automatic	ally turned off during v	vork hours		Midday is warmer, so the temperature	
16:00							
18:00	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C
00:05 00:05		Automatically tur	Automatically raises ten match time when outsic	nperature setting to le-air temperature is low			
(during sleeping hours)							
(auting brooping nours)	ON_18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
		Automa	tically lowers tempera	ture at bedtime for ene	ergy-saving operation a	t night	
	-						

**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.

## Back Light Remote Controller

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



The setting can be easily checked in the dark.

## **INSTALLATION & MAINTENANCE**

## **INSTALLATION**

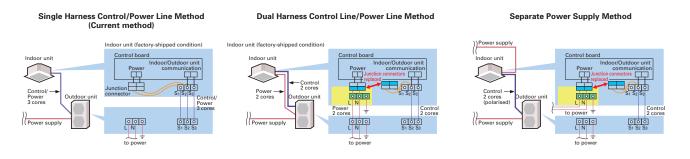
## Cleaning-free Pipe Reuse

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

## Reuse of Existing Wiring

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

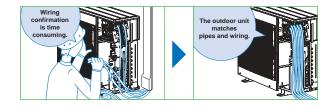
The wiring method has been improved, making it possible to use methods different from that utilized for control and power supply. Units are compatible with the dual harness control line/power line method and the separate power supply method. Using a power supply terminal kit, wire can be efficiently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



## Wiring/Piping Correction Function\*

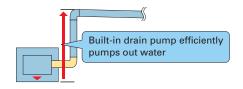
The push of a single button is all that is required to confirm that piping and wiring are properly connected. Corrections are made automatically if a wiring error is detected, eliminating the need for complicated wiring confirmation work when expanding the number of rooms served

\* 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** Lift Un

A built-in drain pump enables drain piping to be raised.





Flare connection to cooling pipe work is possible.



Enables smooth and easy recovery of refrigerant. Simply press the "Pump Down" switch before moving or changing the unit.

Outdoor unit control circuit board



Push this switch to start/

Pump Down Switch

stop refrigerant recovery operation automatically. (Valve in refrigerant circuit is opened/closed.)

Pump down switch

## MAINTENANCE

## Self-Diagnostic Function (Check Code Display)

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

Failure Recall Function

Operation failures are recorded, allowing confirmation when needed.

## **SYSTEM CONTROL**

## SYSTEM CONTROL

## PAR-40MAA/PAC-YT52CRA/PAC-CT01MAA

Units are compatible for use with the PAR-40MAA, PAC-YT52CRA or PAC-CT01MAA remote controller, which has a variety of management functions.

#### Group Control

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

System Group Control

## M-NET Connection

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

## MELCloud (Wi-Fi interface)

## MELCloud for fast, easy remote control and monitoring

#### MELCloud is a Cloud-based solution for controlling air-conditioner either locally or remotely by computer, tablet or smartphone via the Internet. Setting up and remotely operating via MELCloud is simple and straight forward. All you need is wireless computer connectivity in your home or the building where the air-conditioner is installed and an Internet connection on your mobile or fixed terminal. To set up the system, the router and the Wi-Fi interface must be paired, and this is done simply and quickly using the WPS button found on all mainstream routers. You can control and check air-conditioner via MELCloud from virtually anywhere an Internet connection is available. That means, thanks to MELCloud, you can use much more easily and conveniently.

### Key control and monitoring features

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

Schedule timer - Set 7 day weekly schedule Error status

4 Energy Consumption Monitoring







## **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.)



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

MELCloud uses the MAC-567IF-E interface

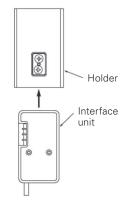
### **Connecting the Wi-Fi interface**

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.

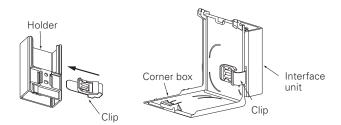




\*When mounting on the right side of the unit

## 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.





Right side



Bottom right



Left side



Bottom left

# **CONTROL TECHNOLOGIES**



## Easy To Read & Easy To Use Inverted display screen

The screen background color can be set to black to suit the atmosphere of the installation location.

## Full Dot Liquid-crystal Display Adopted

Easier to read thanks to use of a full dot liquid-crystal display with backlight, and easier to use owing to adopting a menu format that has reduced the number of operating buttons.

## Display Example [Operation Mode]

Full Dot LCD



## Multi-language Display

Multilanguage Control panel operation in fourteen different languages Choose the desired language, among the

following languages.

English	Spanish	Spanish Italian	
French	Greek	Portuguese	Swedish
German	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.

## Energy-efficient Control

## **Operation Control Functions**

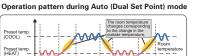
Energysaving Schedule

## 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. Airconditioning operation is automatically controlled to ensure that electricity in excess of the contracted volume is not consumed.





COOL

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

#### Setting pattern example

ootting pattor		ipio	
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%



Control pa different la ge Choose the

## 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.

## 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

## Fixed temperature setting promotes energy savings

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

Recommended for	Office	School	Public hall
	Hospital	Computer	server facility

#### Temperature Range Restriction

## Temperature Range Restriction prevents overheating/overcooling

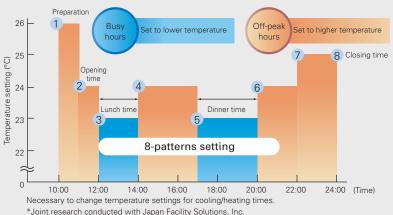
Using a temperature that is 1°C lower/higher for heating/cooling results in a 10% reduction in power consumption.\* Temperature Range Restriction limits the maximum and minimum temperature settings, contributing to the prevention of overheating/overcooling. \*In-house calculations



## Weekly Timer

## Weekly Timer with Two Types of Settings

Setting Example (restaurant in summer time)



settings which can be easily switched according to different seasons. In addition, it offers eight different pattern set-

ting per day. (on, off and temperature setting) \*Weekly Timer cannot be used when On/Off Timer is in use.

Weekly schedule timer can save two different

## **CONTROL TECHNOLOGIES**

## Installation/Maintenance Support Functions



### Outdoor unit data accessed immediately, enabling fast maintenance (only PUZ/PUHZ type)

Using the Stable Operation Control (fixed frequency) of the Smooth Maintenance function, the operating status of the inverter can be checked easily via the screen on the remote controller.

### Smooth Maintenance Function Operating Procedure



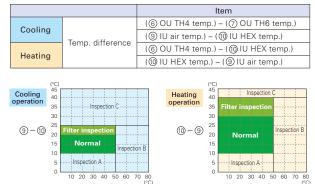
#### **Display information (11 items)**

	Compressor		OU TH4 temp. (°C)
1	COMP. current (A)	0	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.



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.

(6) - (10)

\*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.
   c) If the above temperature conditions do not apply and stable operation is not achieved after 30 minutes has passed, please inspect the units.
   The operating status may change due to frost on the outdoor heat exchanger.

(6) - (7)

## Manual Vane Angle Setting (4-way ceiling cassette)

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

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

#### Autodescending Panel Operation

### Easily raise/lower panels using the remote controller

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

## Silent Mode

#### Three outdoor noise level setting

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

Initial Password Setting

#### Password for initial settings

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

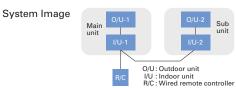
## Rotation\*, Back-up\* and 2nd Stage Cut-in Functions\* (PAR-40MAA)

#### (1) Rotation and Back-up Functions

#### **Function Outline**

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

\*PUZ/PUHZ only



### (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 (1-unit operation).

#### System Constraint

 This function is only available for rotation operation and when the back-up function is in cooling mode.
 \*PUZ/PUHZ only

## 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.

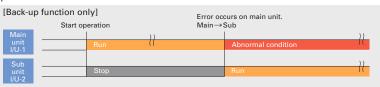
## Vane Angle Setting

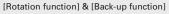
The vane button has been added to allow users to change the airflow direction (ceiling-cassette and wall-mounted units).

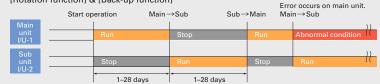
## Pressing the 🛐 button will switch the vane direction.







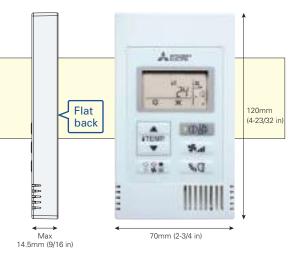




(Ex: When the request code is "313", each unit operates alternately in daily cycle.)

## Operation Pattern

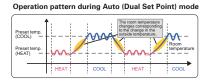




## Dual Set Point

### Two preset temperatures

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



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

\* The settable vane directions vary depending on the indoor unit model to be connected.

\* If the unit has no vane function, the vane direction cannot be set. In this case, the vane icon flashes when the button is pressed.

# **CONTROL TECHNOLOGIES**

MA Touch Remote Controller PAR-CT01MAA-SB PAR-CT01MAA-PB





PAC-CT01MAA-SB

**Operation panels** 

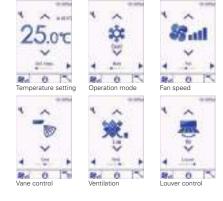
PAR-CT01MAA-PB

User-friendly Visible big size icons on the full color touch panel display.

## Full color touch panel display







Touch Panel

Flexibility Customized display, color on parameter and background, editable parameter, logo image on the initial display.

#### Multiple color pattern

180 color patterns can be selected for control parameters or background on the display.

#### Control parameter customize

Users can customize the panel todisplay the selected parameters only.

#### • Control parameter customize

Simple operation panel is liked by users, especially in hotels. It is available to display only ON/OFF, set temp., fan speed.



Logo image customization

Logo image can be displayed on the initial screen.



## Available in a wide variety of colors to suit the decor of any room.





### Expandability Smartphone / tablet App is available for setting, customize, and control.

#### Bluetooth® low energy technology

Remote controller can communicate with smartphone or tablet device via Bluetooth Low Energy (BLE). Operation & Setting App are available on the App store.



\*The Bluetooth<sup>®</sup> word mark is trademark of Bluetooth SIG, Inc., USA. \*Contact the sales company for information on "Bluetooth" function.



#### **Convenient BLE transmission functions for installation contractors**

Initial setup for the remote controller can be easily performed using BLE transmission via a smartphone.

#### Previous model

Previously, initial setup (selecting function parameters) was onlyavailable via the remote controller installed each room.

#### New model

12-00

The initial setup (selecting function parameters) can now be performed in advance on a smartphone, with the settings transmitted to the remote controller by enabling BLE transmission upon entry to the room.





#### **Convenient BLE transmission functions for guests**

The remote controller has been further upgraded with hotels in mind, to allow smartphone connectivity and multilingual support.

#### Smartphone connectivity

For example, hotel guests can operate the air conditioner via their smartphones, without getting out of bed.



#### Multilingual support

The smartphone app can be displayed in the language that the guest's smartphone is set to.



# **CONTROL TECHNOLOGIES**

## Wireless Remote Controller PAR-SL100A-E

## Weekly Timer

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



Backlight function incorporated, making screen easy to read in the

dark. Even in dimly lit rooms, the screen can be seen clearly for

		188mm (7-13/32 in)
22mm (55/64 in)	66mm (2-19/32 in)	

#### Example Operation Pattern (Winter/Heating mode)

	M	on.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
600	ON	20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
				Automatically change	es to high-power opera	tion at wake-up time		
800		-						
1000	0	DFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
15:00	l í						Midday is warmer,	
1400			Automatic	ally turned off during v	vork hours		so the temperature is set lower	
16:00								
1800	ON	20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
20:00			Automatically tur	an on currebronized wi	th arrival at homo		Automatically raises ten	
0055		Automatically turns on, synchronized with arrival at home match time when outside air temperature is low						
(during	ON	18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
sleeping hours)	]	10 0			ture at bedtime for ene			

\*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

## 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.

## Horizontal Horizontal Adjustable Downward

## 70 : 4

trouble-free remote controller operation.

Backlight



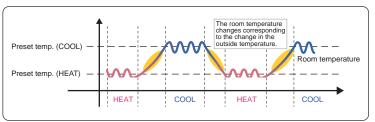
**Dual Set Point** 

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.

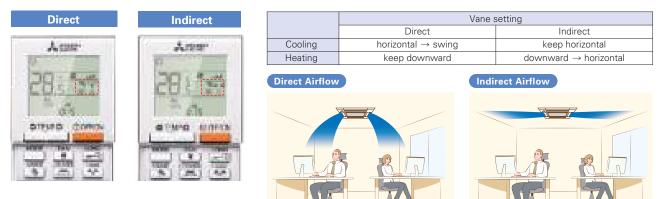
## **Battery Replacement Sign**



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.



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

## **Basic Functions**

Functions	Button	Liquid crystal
OFF / ON	① OFF/ON	
Preset temperature		<b>88</b> .5
Mode	MODE	Cool Dry Heat Fan Auto Dual set point
Fan speed	FAN	4-Speed Auto
Vane angle	VANE M	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

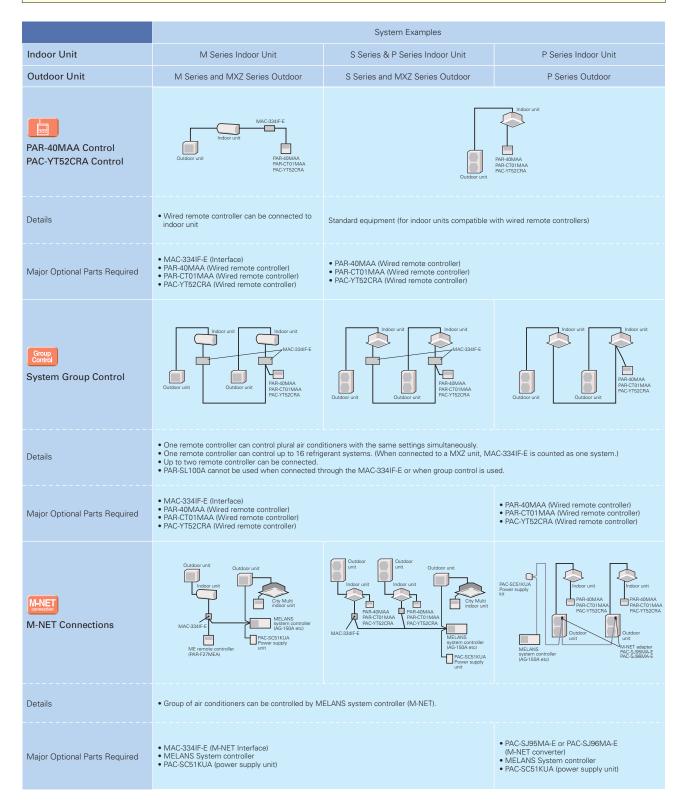
\*This remote controller is only compatible with the following models: SLZ-M15/25/35/50/60FA, PLFY-P15/20/25/32/40/50VFM-E1, PLA-ZM/RP35/50/60/71/100/125/140EA, PLFY-P20/25/32/40/50/63/80/100/125VEM-E

\*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.     (① and ② can be used in combination)	MAC-334IF-E indoor unit 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.	<ul> <li>MAC-334IF-E (Interface)</li> <li>Parts for circuit such as relay box, lead wire, etc. (to be purchased locally)</li> </ul>
2 Remote Display of Operation Status • The On/Off status of air conditioners can be confirmed remotely. (1] and [2] can be used in combination)	MAC 334IF-E Power supply Resultance Leg Remote Nontro section (to be purchased locally)	Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.	The operation status (On/Off) or error signals can be monitored from a remote location.	MAC-334IF-E (Interface)     Parts for circuit to be     purchased locally (DC power     source needed)     External power source (12V DC)     is required when using     MAC-334IF-E.

## For P Series and S Series Indoor Units

	System E	Examples	Deteile	
	Wired remote controller	Wireless remote controller	Details	Major Optional Parts Required
A 2-remote Controller Control With two remote controllers, control can be performed locally and remotely from two locations.	PAR-40MAA PAC-YTE2GRA * Set "Main" and "Sub" remote controllers. (Example of 1 : 1 system)	PAR-40MAA PAC-YT52CRA * When using wired and wireless remote controllers (Example of Simultaneous Twin)	<ul> <li>Up to two remote controllers can be connected to one group.</li> <li>Both wired and wireless remote controllers can be used in combination.</li> </ul>	Wired Remote Controller PAR-40MAA PAC-YT52CRA (for PKA, PAC-SH29TC-E is required)     Wireless Remote Controller PAR-SL97A-E/PAR-SL100A-E (only for SL2)     Wireless Remote Controller Kit for PCA PAR-SL94B-E
B Operation Control by Level Signal Air conditioner can be started/ stopped remotely. In addition, On/Off operation by local remote controller can be prohibited/permitted.	Relay box to be purchased locally.	Relay box (to be purchased locally) Adapter for ON/Off Parola general Carter of 1: 1 system x 2)	<ul> <li>Operation other than On/Off (e.g., adjustment of temperature, fan speed, and airflow) can be performed even when remote controller operation is prohibited.</li> <li>Timer control is possible with an external timer.</li> </ul>	Adapter for remote On/Off     PAC-SE55RA-E     Relay box (to be purchased locally)     Remote control panel (to be purchased locally)
C Operation Control by Pulse Signal	Relay box (to be purchased locally)	Relay box (to be purchased locally)	<ul> <li>The pulse signal can be turned On/Off.</li> <li>Operation/emergency signal can be received at a remote location.</li> </ul>	Connector cable for remote display PAC-SA88HA-E/PAC-725AD (10 pcs. x PAC-SA88HA-E) Relay box (to be purchased locally) Remote control panel (to be purchased locally)
D Remote Display of Operating Status Operating status can be displayed at a remote location.	Remote operation display + Relay box Bencon gisplay BR-CMDR/AR-CT01MAA/ (Example of 1 : 1 system)	Remote operation advector/ Relay box Remote able for remote display + Remote able for remote able for remote display + Remote able for remote able f	• Operation/emergency signal can be received at a remote location (when channeled through the PAC-SF40RM-E → no-voltage signal, when channeled through the PAC-SA88HA-E → DC 12V signal).	Remote display panel (to be purchased locally)     Connector cable for remote display PAC-SA88HA-E/PAC-725AD (10 pcs. x PAC-SA88HA-E) Relay box (to be purchased locally)     Remote operation adapter PAC-SF40RM-E     *Unable to use with wireless remote controller
E Timer Operation Allows On/Off operation with timer *For control by an external timer, refer to B Operation Control by Level Signal.	(Example of 1 : 1 system)		Weekly Timer: On/Off and up to 8 pattern temperatures can be set for each calendar day. (Initial setting)     On/Off Timer: On/Off Timer: On/Off Timer: Operation will be switched off after a certain time elapse. Set time can be changed from 30 min. to 4 hr. at 10 min. intervals.     *Simple Timer and Auto-off Timer cannot be used at the same time.	Standard functions of PAR-40MAA / PAR-CT01MAA

## **FUNCTION LIST (1)**

Category	Icon			1		M SERIES	1			
	And the advance	Indoor unit	MSZ-LN18/25/35/ 50/60VG2 (W)(V)(R)(B)	MSZ-FT25/35/50VG	MSZ-AP15/20VG	MSZ-AP25/35/42/ 50/60/71VG	MSZ-EF18/22/25/35/ 42/50VG(W)(B)(S)	MSZ-BT20/25/35/50VG	MSZ-HR25/35/ 42/50/60/71VF	
	1	Outdoor unit	MUZ-LN	MUZ-FT	MU.	Z-AP	MUZ-EF	MUZ-BT	MUZ-HR	
Technology	DC Inverter		•	•	•	•	•	•	•	
	Joint Lap DC Mot	or	•	•	•	•	•	•	•	
	Reluctance DC Rot	ary Compressor								
	Heating Caulking	(Compressor)	•	•	•	•	•	•	•	
	DC Fan Motor		•	•	•	•	•	•		
	PAM (Pulse Amp	itude Modulation)	•	•	•	•	•	•	٠	
	Power Receiver an	d Twin LEV Control								
	Grooved Piping		•	•	•	•	•	•	•	
i-see Sens	sor Felt Temperature (	Control (3D i-see Sensor)	•							<u> </u>
	AREA Temperatu		•							
Energy		gy-saving Feature	•	•	•	•	•	•	•	-
Saving	Standby Power C		•	•	•	•	•	•	*	
Air Quality			•							
	Plasma Quad	-	•							-
	Dual Barrier Coat	ing	•							-
	Silver-ionized Air		Opt	•		Opt	•	Opt	Opt	
	Air Purifying Filte		Opt	•		Ορι	•		Орг	
Air	Double Vane	1	•	•		•				
Distributio	Horizontal Vane		•	•	•	•	•	•	•	
	Vertical Vane		•	•	•	•	•			-
	High Ceiling Mod	0	•			•				
			•						•	
	Auto Fan Speed	wode		•	•	•	•	•	•	
Convenienc	Circulator Mode		•	•						
Convenienc		Timer	•	•	•	•	•	•	•	
	"i save" Mode		•	•	•	•	•	•	•	
	Auto Changeover		•	•	•	•	•	•	•*1	
	Auto Restart	0	•	•	•	•	•	•	•	
ions	Low-temperature	Cooling	•	•	•	•	•	•	•	
Functions	10°C Heating		•	•	•	•		•	•	
<u> </u>		tion (Outdoor Unit)								
	Night Mode		•	•	•	•		•		-
	Ampere Limit Adj		-							
	Operation Lock (I		•	•	•	•		•	•	
	Operation Lock (				-					
Sustam	Built-in Weekly Ti		•	•	•	•	•			
System Control	PAR-40MAA Con		Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	PAR-CT01MAA C		Opt	Opt	Opt	Opt	Opt	Opt	Opt	-
	PAC-YT52CRA C		Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	Centralised On/C		Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	System Group Co		Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	M-NET Connection	on *3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	-
	Wi-Fi Interface		•	Opt	Opt	Opt	Opt	Opt	Opt	
		Monitoring through MELCloud								
Installation	3 1 1		•	•	•	•	•	•	•	
	Wiring/Piping Co	rection Function								
	Drain Pump									
	Flare Connection		•	•	•	•	•	•	•	
Maintenand	ce Self-Diagnosis Fund	ction (Check Code Display)	•	•	•	•	•	•	•	

<sup>11</sup> When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible.
 <sup>12</sup> For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on pages 115-116 for details.
 <sup>13</sup> Please refer to "\$ystem Control" on pages for details.
 <sup>14</sup> When connected to MXZ outdoor units, the outdoor operating sound will not change.

				M S	ERIES				
 MSZ-FH25/35/ 50VE2	MSZ-SF25/35/ 42/50VE3	MSZ-GF60/71VE2	MSZ-WN25/35VA	MSZ-DM25/35VA	MSZ-HJ25/35/50VA	MSZ-HJ60/71VA	MFZ-KJ25/35/50VE2	MFZ-KT25/35/ 50/60VG	MLZ-KP25/35/50VF
MUZ-FH	MUZ-SF	MUZ-GF	MUZ-WN	MUZ-DM	MUZ-HJ	MUZ-HJ	MUFZ-KJ	SUZ-M	SUZ-M
•	•	•	•	•	•	•	•	٠	•
•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•
•	•	•	•	•		•	•	•	•
 •	•	•	•	•	•	•	•	٠	•
•	•	•	•	•	•	•	•	•	•
•									
٠									
•	•	•	•	•	•	•	•	•	•
•	•	•					•	•	
•									
•									
•	Opt	Opt					•	•	Opt
	•	•						•	Opt
•									
 •	•	•	•	•	•	•	•	•	•
•	•			_					•
									•
٠	٠		•	•	•	٠	•	٠	•
٠	٠	•	•	•	•	۲	•	٠	•
٠	•	•					•	•	•
•	•	•					●*1	•*1	•
•	•	•	•	•	•	•	•	•	•
•	•	•					•	•	•
6	6							6	
•	•	•					•	0	•
Opt	Opt	Opt	Opt	Opt			Opt	Opt	Opt
Opt Opt	Opt Opt	Opt Opt	Opt	Opt Opt			Opt Opt	Opt Opt	Opt Opt
Opt	Opt	Opt		Opt			Opt	Opt	Opt
Opt	Opt	Opt		Opt			Opt	Opt	Opt
Opt	Opt	Opt		Opt			Opt	Opt	Opt
Opt	Opt	Opt	Opt	Opt			Opt	Opt	Opt
•	٠	•	•	•	•	٠	•	٠	•
									•
									•
٠	•	٠	•	•	٠	٠	٠	٠	٠
•	•	•	•	•	٠	٠	•	٠	٠
٠	٠	•	•	•	•	•	•	•	•
					The Constant Parts I	in the table are final	hen combined with an ou	سيبيع مطغ طغاني فاستر محمالية	and the second sec

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

## **FUNCTION LIST (2)**

Category	Icon				Ss	ERIES		
	nation	Indoor unit		SLZ-M15/25	/35/50/60FA *4		SEZ-M25/35	/50/60/71DA(L)
	Combination	Outdoor unit	SUZ-M	SUZ-KA	PUZ-ZM	PUHZ-ZRP	SUZ-M	SUZ-KA
echnology	DC Inverter		•	•	•	•	٠	•
	Joint Lap DC Moto	or	•	•			•	•
	Magnetic Flux Vector	r Sine Wave Drive			•	•		
	Reluctance DC Rota	ary Compressor	•	•			•	•
	Highly Efficient DC S	Scroll Compressor			•	•		
	Heating Caulking	(Compressor)	•	•			•	•
	DC Fan Motor		•	•	•	•	•	•
	Vector-Wave Eco	Inverter			•	•		
	PAM (Pulse Ampli	tude Modulation)	•	•	•	•	•	•
	Power Receiver and	Twin LEV Control			•	•		
	Grooved Piping		•	•	•	•	•	•
i-see Sensor	Felt Temperature Con	trol (3D i-see Sensor)	Opt	Opt	Opt	Opt		
	AREA Temperatur	e Monitor	Opt	Opt	Opt	Opt		
Energy Saving	Demand Function							
Attractive	Pure White		•	•	•	•		
	Auto Vane		•	٠	٠	•		
Air Quality	Fresh-air Intake		•	•	•	•		
	High-efficiency Filt	ter						
	Oil Mist Filter							
	Long-life Filter		•	•	•	•		
	Filter Check Signa	ıl	•	•	•	•		
Air	Horizontal Vane		•	•	•	•		
Distribution	Vertical Vane							
	High Ceiling Mode	3	•	•	•	•		
	Low Ceiling Mode							
	Auto Fan Speed M	lode	•	•	•	•	•	•
Convenience	On/off Operation 1	īmer	•	•	•	•	•	•
	Auto Changeover		•	•	•	•	•	•
	Auto Restart		•	•	•	•	•	•
	Low-temperature	Cooling	•	•	•	•	•	•
2	Low-noise Operati	on (Outdoor Unit)			•	•		
	Ampere Limit Adju	stment			60-140V	60-140V		
5	Operation Lock							
	Rotation, Back-up an	nd 2nd Stage Cut-in Functions			•	•		
	Dual Set Point *3				•	•		
System	PAR-40MAA Cont	rol *1	Opt	Opt	Opt	Opt	Opt	Opt
Control	PAR-CT01MAA C	ontrol *1	Opt	Opt	Opt	Opt	Opt	Opt
	PAC-YT52CRA Co		Opt	Opt	Opt	Opt	Opt	Opt
	Centraliesd On/Of	f Control *1	Opt	Opt	Opt	Opt	Opt	Opt
	System Group Co		Opt	Opt	Opt	Opt	Opt	Opt
	M-NET Connectio		Opt	Opt			Opt	Opt
	COMPO *2				71-140	71-140		
		Monitoring through MELCloud						
Installation	Cleaning-free Pipe		•	•	•	•	•	•
	Reuse of Existing							
	Wiring/Piping Corr							
	Drain Pump		•	•	•	•	Opt	Opt
	Pump Down Swite	h	-	-	-	-		Sp.
	Flare Connection		•	•	•	•	•	•
Maintenance		ction (Check Code Display)	•	•	•	•	•	•
	Failure Recall Fun		•	•	•	•	-	-

\*1 Please refer to "System Control" on pages for details.
 \*2 Please refer to page 57 for details.
 \*3 This function is only available with PAR-40MAA, PAC-YT52CRA, PAR-SL100A-E.
 \*4 SLZ-M15 can be connected with R32 MXZ only.

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

Categ	IOIV	Icon							P se	RIES				
			_											
			lation	Indoor unit	PLA-ZM35	5/50/60/71/100/	125/140EA			PLA-M35	/50/60/71/100/1	25/140EA		
			Combinatior	Outdoor unit	PUHZ-SHW	PUZ-ZM	PUHZ-ZRP	PUHZ-SHW	PUZ-ZM	PUHZ-ZRP	SUZ-M	SUZ-KA	PUZ-M	PUHZ-P
Techn	ology	DC Inverter			•	•	•	•	•	•	•	•	•	•
		Joint Lap DC N	lotor			35-71	35-71		35-71	35-71	•	•	100	100
		Magnetic Flux Ve	ector	Sine Wave Drive	•	•	•	•	•	•			•	•
		Reluctance DC R	Rotary	/ Compressor		35-71	35-71		35-71	35-71	•	•	100-140	100-140
		Highly Efficient D	C Sc	roll Compressor	•	100-250	100-250	•	100-250	100-250			200-250	200-250
		Heating Caulkir	ng (C	Compressor)		35-71	35-71		35-71	35-71	•	•	100	100
		DC Fan Motor			•	•	•	•	•	•	•	•	•	•
		Vector-Wave E	co In	verter	•	•	•	•	•	•			•	•
		PAM (Pulse Am	nplitu	de Modulation)	•	35-140	35-140	•	35-140	35-140	•	•	100-140V	100-140V
		Power Receiver	and T	win LEV Control	•	35-250	35-140	•	35-250	35-140			100-250	100-140
		Grooved Piping	9		•	•	•	•	•	•	•	•	•	•
i-s	see Sensor	Felt Temperature 0	Contro	ol (3D i-see Sensor)	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		AREA Tempera	ature	Monitor	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
E	nergy Saving	Demand Functi	ion		Opt	Opt	Opt	Opt	Opt	Opt			Opt	Opt
A	ttractive	Pure White			•	•	•	•	•	•	•	•	•	•
		Auto Vane			•	•	•	•	•	•	•	•	•	•
A	ir Quality	Fresh-air Intake	Э		•	•	•	•	•	•	•	•	•	•
		High-efficiency	Filte	r	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		Oil Mist Filter												
		Long-life Filter			•	•	•	•	•	•	•	•	•	•
		Filter Check Sig	gnal		•	•	•	•	•	•	•	•	•	•
A	ir Iistribution	Horizontal Vane	e		•	•	•	•	•	•	•	•	•	•
	istribution	Vertical Vane												
		High Ceiling Mo	ode		•	•	•	•	•	•	•	•	•	•
		Low Ceiling Mo	ode		•	•	•	•	•	•	•	•	•	•
		Auto Fan Spee	d Mo	ode	•	•	•	•	•	•	•	•	•	•
C	onvenience	On/off Operatio	on Tir	mer	•	•	•	•	•	•	•	•	•	•
		Auto Changeov	/er		•	•	•	•	•	•	•	•	•	•
		Auto Restart			•	•	•	•	•	•	•	•	•	•
		Low-temperatu			•	•	•	•	•	•	•	•	•	•
suo		Low-noise Ope	ratio	n (Outdoor Unit)	•	•	•	•	•	•			•	•
Functions		Ampere Limit A Operation Lock		tment	112/140	60-140V 200/250	60-140V 200/250	112/140	60-140V 200/250	60-140V 200/250				
		Rotation, Back-up an	nd 2nd	Stage Cut-in Functions	•	•	•	•	•	•			٠	•
		Dual Set Point	*4			•	•		•	•			٠	•
	ystem	PAR-40MAA Co	ontro	l *1	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
C	ontrol	PAR-CT01MAA	A Cor	ntrol *1	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		PAC-YT52CRA	Cor	ntrol *1	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		Centraliesd On	/Off (	Control *1	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		System Group	Cont	rol *1	•	•	•	•	•	•	Opt	Opt	٠	•
		M-NET Connec	ction	*1	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		COMPO *2			•	71-250	71-250	•	71-250	71-250			٠	•
		Energy Consumption	Monit	oring through MELCloud										
In	nstallation	Cleaning-free F	Pipe I	Reuse	•	•	•	•	•	•	•	•	٠	•
		Reuse of Existi	ng W	/iring	Opt	Opt	Opt	Opt	Opt	Opt			Opt	Opt
		Wiring/Piping C	Corre	ction Function										
		Drain Pump			•*3	●*3	•*3	●*3	●*3	●*3	●*3	•*3	•*3	●*3
		Pump Down Sv	witch		•	•	•	•	•	•			٠	•
		Flare Connection	on		•	•	•	٠	•	٠	•	٠	٠	•
М	laintenance	Self-Diagnosis Func	ction (C	Check Code Display)	•	•	•	•	•	•	•	٠	٠	•
		Failure Recall F	Func	tion	•	•	•	•	•	•	•	•	•	•

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

Failure Recall Function
 Failure Recall Function
 Please refer to "System Control" on pages for details.
 2 Please refer to page 64 for details.
 3 PEAD-M JAL are not equipped with a drain pump.
 4 This function is only available with PAR-40MAA, PAC-YT52CRA, PAR-SL100A-E.

## **FUNCTION LIST (2)**

	1.															
Category	Icon								P SERIES							
	, ample of the second se	Indoor unit		PEAD	-M35/50/60/7	1/100/125/14	0JA(L)		PEAD- M35/50/60/ 71/JA(L)		PEA-M2	200/250LA		PKA-M35	/50LA(L)	
		Outdoor unit	PUHZ -SHW	PUZ -ZM	PUHZ -ZRP	PUZ -M	PUHZ -P	SUZ -M	SUZ -KA	PUZ -ZM	PUHZ -ZRP	PUZ -M	PUHZ -P	PUZ -ZM	PUHZ -ZRP	
Technology	DC Inverter		•	•	•	•	•	•	•	•	•	•	•	•	•	
	Joint Lap DC Moto	or		35-71	35-71	100	100	•	•					35-71	35-71	
	Magnetic Flux Vecto	or Sine Wave Drive	•	•	•	•	•			•	•	•	•	•	•	
	Reluctance DC Rota	ary Compressor		35-71	35-71	100-140	100-140	•	•					35-71	35-71	
	Highly Efficient DC \$	Scroll Compressor	•	100-250	100-250	200/250	200/250			•	•	•	•	100-200	100-200	
	Heating Caulking	(Compressor)		35-71	35-71	100	100	•	•					35-71	35-71	
	DC Fan Motor		•	•	•	•	•	•	•	•	•	•	•	•	•	
	Vector-Wave Eco	Inverter	•	•	•	•	•			•	•	•	٠	•	•	
	PAM (Pulse Ampli	tude Modulation)	•	35-140	35-140	100-140V	100-140V	•	•					35-140	35-140	
	Power Receiver and	Twin LEV Control	•	35-250	35-140	100-250	100-140			٠		٠		35-200	35-140	
	Grooved Piping		•	•	•	•	•	•	•	•	•	•	•	•	•	
i-see Sensor	Felt Temperature Con	trol (3D i-see Sensor)														
	AREA Temperatur	e Monitor														
Energy Savinç	g Demand Function		Opt	Opt	Opt	Opt	Opt			Opt	Opt	Opt	Opt	Opt	Opt	
Attractive	Pure White													•	•	
	Auto Vane													•	•	
Air Quality	Fresh-air Intake															
	High-efficiency File	ter														
	Oil Mist Filter															
	Long-life Filter		•	•	•	•	•	•	•	Opt	Opt	Opt	Opt			
	Filter Check Signa	al	•	•	•	•	•	•	•	•	•	•	•	Opt	Opt	
Air	Horizontal Vane													•	•	
Distribution	Vertical Vane															
	High Ceiling Mode	•														
	Low Ceiling Mode															
	Auto Fan Speed N		•	•	•	•	•	•	•	•	•	•	•	•	•	
Convenience	On/off Operation 1		•	•	•	•	•	•	•	•	•	•	•	•	•	
	Auto Changeover		•	•	•	•	•	•	•	•	•	•	•	•	•	
	Auto Restart		•	•	•	•	•	•	•	•	•	•	•	•	•	
	Low-temperature	Cooling	•	•	•	•	•	•	•	•	•	•	•	•	•	
s	Low-noise Operati	ion (Outdoor Unit)	•	•	•	•	•			•	•	•	•	•	•	
Functions	Ampere Limit Adju		112/140	60-140V 200/250	60-140V 200/250						•			71-140V 200	71-140V 200	
En La	Operation Lock			200/250	200/250									200	200	
	Rotation, Back-up and 2	nd Stage Cut-in Functions	•	•	•	•	•			•		•		•	•	
	Dual Set Point *4	-		•	•	•	•			•	•	•	•	•	•	
System	PAR-40MAA Cont	rol *1	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
Control	PAR-CT01MAA C		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	PAC-YT52CRA Co		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	Centraliesd On/Of	f Control *1	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt		Opt		Opt	Opt	
	System Group Co		•	•	•	•	•	Opt	Opt	•	•	•	•	Opt	Opt	
	M-NET Connectio		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	COMPO *2		•	71-250	71-250	•	•			•		•		71-200	71-200	
		nitoring through MELCloud														
Installation	Cleaning-free Pipe	e Reuse	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Reuse of Existing		Opt	Opt	Opt	Opt	Opt							Opt	Opt	
	Wiring/Piping Corr															
	Drain Pump		•*3	•*3	•*3	•*3	•*3	•*3	•*3	Opt	Opt	Opt	Opt	Opt	Opt	
	Pump Down Swite	h	•	•	•	•	•			•	•	•	•	•	•	
1	Flare Connection		•	•	•	•	•	•	•	•	•	•	•	•	•	
	Fiare Connection															
Maintenance	Self-Diagnosis Function	(Check Code Display)	•	•	•	•	•	•	•	•	•	•	•	•	•	

\*1 Please refer to "System Control" on pages for details.
\*2 Please refer to page 64 for details.
\*3 PEAD-M JAL are not equipped with a drain pump.
\*4 This function is only available with PAR-40MAA, PAC-YT52CRA, PAR-SL100A-E.

									P SERIES							
									I SERIES						PS	SA-
 PKA-M3	5/50LA(L)		PKA	-M60/71/100	KA(L)			PC/	-M35/50/60/7	71/100/125/14	40KA	1	PCA-N	//71HA		1/100/ 140KA
PUZ -M	PUHZ -P	PUHZ -SHW	PUZ -ZM	PUHZ -ZRP	PUZ -M	PUHZ -P	PUZ -ZM	PUHZ -ZRP	PUZ -M	PUHZ -P	SUZ -M	SUZ -KA	PUZ -ZM	PUHZ -ZRP	PUHZ -ZRP	PUHZ -P
•	•	•	٠	•	•	•	•	•	•	•	•	•	•	•	•	•
100	100		60/71	60/71	100	100	35-71	35-71	100	100	•	•	71	71	71	100
•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
•	100-140		60/71	60/71	100-140	100-140	35-71	35-71	100-140	100-140	•	•	71	71	71	100-140
	200	•	100-250	100-250	200/250	200/250	100-250	100-250	200/250	200/250			100-250	100-250	100-250	200/250
			60/71	60/71	100	100	35-71	35-71	100	100	•	•	71	71	71	100
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
100V-140V	100V-140V	•	60-140	60-140	100-140V	100-140V	35-140	35-140	100-140V	100-140V	•	•	71-140	71-140	71-140	100-140V
100-140	100-140	•	60-250	60-140	100-250	100-140	35-250	35-140	100-250	100-140			71-250	71-140	71-140	100-140
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt			Opt	Opt	Opt	Opt
•	•	•	•	•	•	•	•	•	•	•	•	•			•	•
•	٠	٠	٠	٠	•	•	٠	٠	•	٠	•	٠				
							•	•	•	•	•	•	•	•		
							Opt	Opt	Opt	Opt	Opt	Opt				
													•	•		
							•	•	•	•	•	•			•	•
Opt	Opt	Opt	Opt	Opt	Opt	Opt	•	•	•	•	•	•	•	•	•	•
•	•	٠	٠	٠	•	•	٠	٠	•	•	•	•				
															•	•
							•	•	•	•	•	•				
							•	•	•	•	•	•				
•	٠	•	•	•	•	•	•	٠	•	•	٠	•			٠	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	٠	•	•	•	•	٠	•	٠	•	•	٠	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	٠	•	•	•	•	•	٠	٠	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
		112/140	60-140V 200/250	60-140V 200/250			60-140V 200/250	60-140V 200/250						71-140V 200/250	71-140V 200/250	
			200/200	200/230			200/230	200/230						200/230	200/230	
•	•	٠	•	•	•	•	•	•	•	•			•	•		
•	•		•	•	•	•	•	•	•	•						
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt		
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt		
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt		
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Opt	Opt	Opt	Opt	Opt	Opt	Opt	•	•	•	•	Opt	Opt	•	•	Opt	Opt
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
•	•	•	71-250	71-250	•	•	71-250	71-250	•	•			71-250	71-250	71-250	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt			Opt	Opt	Opt	Opt
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt				
•	•	•		•	•	•	•	•	•	•			•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1								1				tod, the featur	e is only availa	blowith the c	utdoor unit of	

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

## **FUNCTION LIST (2)**

Category	Icon							MXZ s	ERIES							
	Series			Std			Lo-	std	н	12i	Lo	-std		Std		
	Outdoor unit			MXZ-VA(2)			MXZ	Z-VA	MX	Z-VA	MX	Z-VF		MXZ-VF3		
		2D	3E	4E	5E	6D	2DM	3DM	2E	4E	2HA	3HA	2F	3F	4F	
Technology	DC Inverter	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Joiint Lap DC Motor	•	•	•	٠		•	•	•		٠	•	•	•	•	
	Magnetic Flux Vector Sine Wave Drive															
	Reluctance DC Rotary Comperssor			83	٠	•										
	Highly Efficient DC Scroll Compressor															
	Heating Caulking (Compressor)	٠	•	٠	•	•	٠	•	•	٠	٠	٠	•	•	•	
	DC Fan Motor	•	•	•	٠	•	•	•	•	•	٠	٠	•	•	•	
	Vector-Wave Eco Inverter															
	PAM (Pulse Amplitude Modulation)	•	•	•	٠	•	•	•	•	•	٠	٠	•	•	•	
	Power Receiver and Twin LEV Control		•	72				•				٠		•	•	
	Grooved Piping	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
i-see Sensor	r Felt Temperature Control (3D i-see)			<u> </u>												
	AREA Temperature Monitor															
Energy Savin	g Demand Function															
Attractive	Pure White			+												
	Auto Vane															
Air Quality	Fresh-air Intake															<b>—</b>
	High-efficiency Filter			+												
	Oil Mist Filter			+												-
	Filter Check Signal															
Air	Horizontal Vane			++												-
Distribution	Vertical vane	-		++												
	High Ceiling Mode			+ +												
	Auto Fan Speed Mode			+												-
Convenience				+												-
000000000000000000000000000000000000000	Auto Changeover	•	•	•	•	•	•	•	•	•	•	•	•	•	•	<u> </u>
	Auto Changeover	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Low- temperature Cooling	•	•	•	•	•	•	•	•	•	•	•	•	•	•	<u> </u>
	10°C Heating	•*1	•1	•1	•1	•1			•*1	•1			•1	•1	•1	
	Low-noise Operation (Outdoor)	•••	•1	•1	•1	•1	•	•	• 1	• 1	•	•	•1	•1	•1	<b> </b>
	Night Mode		•			•	•						•	•	•	
		-		02												<u> </u>
su	Ampere Linit Adjustment			83	•	•			•	•						
Functions	Operation Lock (Indoor)															<b> </b>
n L	Operation Lock (Outdoor)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Built-in Weekly Timer Function		<u> </u>	<b></b>											<b> </b>	<b> </b>
	Rotation, Back-up abd 2nd Stage Cut-in Functions	\$														
	Dual Set Point															<b> </b>
System Control	PAR-40MAA Control	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	PAR-CT01MAA Cotrol	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	<b> </b>
	PAC-YT52CRA Control	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	<b> </b>
	Centralised On/off Control	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	<u> </u>
	System Group Control	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	M-NET Connection	_		Opt (83)	Opt	Opt			Opt	Opt						<b> </b>
	Wi-Fi Interface															<b></b>
	Energy/Consumption Monitaring trouth MEL Cloud	t														<u> </u>
	СОМРО															
	MXZ Connection	●*2	•*2	●*2	•*2	•*2	•*2	•*2	●*2	•*2	•*2	•*2	•*2	•*2	●*2	
Installation	Cleaning-free Pipe Reuse										●*3	●*3	●*3	●*3	●*3	
	Reuse of Existing Wiring															
	Wiring/Piping Correction Function	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Drain Pump															
	Pump Down Switch		•	•	•	•		•		٠		•		•	•	
	Flare Connection	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	0 - 16 Discourse is Exaction (Observe Osela Disclary)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Maintenance	e Self-Diagnosis Function (Check Code Display)		-	-	-		-	-		-	-		-	-		

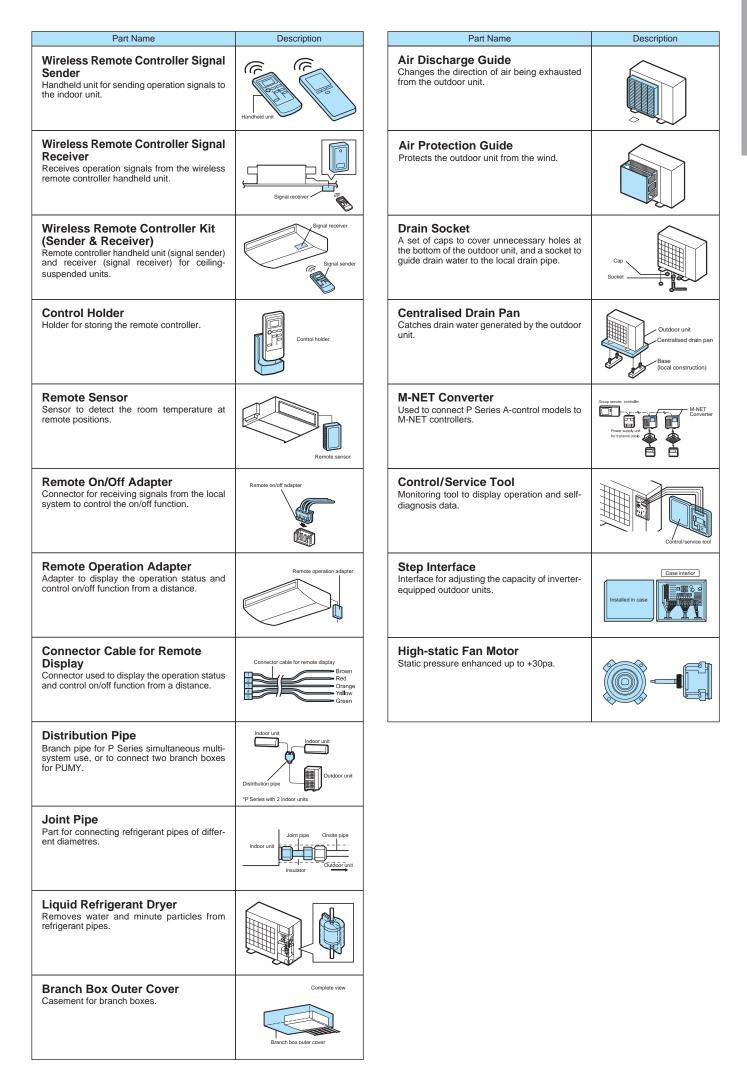
\*1 When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible. \*2 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on pages 113 for details. \*3 Please refer to "System Control" on pages for details.

			W/7		
		Std	MXZ SERIES	HuperH	opting
		MXZ-VF		Hyper H MXZ-V	
	4F	5F	6F	2F	4F
		•	•	•	
	•	•	-	•	
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	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
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	٠	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
	•*1	<b>●</b> *1	•1	•*1	•1
	•	•	•	•	•
	•	•	•	•	•
	Opt	Opt	Opt	Opt	Opt
	Opt	Opt	Opt	Opt	Opt
	Opt	Opt	Opt	Opt	Opt
	Opt	Opt	Opt	Opt	Opt
		Opt			Opt
	Opt	Opt	Opt	Opt	Opt
	• • • •				
	•*2	•*2	•*2	•*2	•*2
	●*3	●*3	•*3	•*3	●*3
				-	
	•	•	•	•	•
[					

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.

## Major Optional Parts

Part Name	Description	Part Name	Description
<b>Deodorising Filter</b> Captures small foul-smelling substances in the air.	Decdorising filter	Drain Pump Pumps drain water to a point higher than that where the unit is installed.	'for ceiling-suspended units
<b>Air-cleaning Filter</b> 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 cover
Silver-ionized Air Purifier Filter Captures the bacteria, pollen and other aller- gens in the air and neutralises them.	Silver-ionized Air Purifier Filter	MA & Contact Terminal Interface Interface for connecting with the PAR-40MAA remote controller and PAC-YT52CRA, and to relay operation signals.	MA & contact terminal interface
<b>Oil Mist Filter Element</b> 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
High-efficiency Filter Element Element for high-efficiency filter. Removes fine dust particles from the air.	*For 4-way cassette units (PLA)	Wi-Fi Interface Interface enabling users to control air condi- tioners and check operating status via devices such as personal computers, tablets and smartphones.	WiFi interface
<b>3D i-see Sensor Corner Panel for SLZ</b> Corner panel holding the 3D i-see Sensor.	i-see Sensor comer panel	<b>Connector Cable</b> 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.	Switch
<b>3D i-see Sensor Corner Panel for PLA</b> Corner panel holding the 3D i-see Sensor.	i-see Sensor correr 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	MA Touch Remote Controller Remote controller with the full color touch display. Smartphone/Tublet App is available for setting, customize and control.	
Fresh-air Intake Duct Flange Flange attachment for adding a duct to take in fresh air from outside.	*For 4-way cassette units (PLA)	Simple Wired Remote Controller Remote controller with liquid-crystal display, and backlight function for operation in dark location.	
Space Panel Decorative cover for the installation when the ceiling height is low.	Space Panel	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.	



## Optional Parts List <Indoor>

	Option			Fil	ter					MA &					Wired Rem	note Controlle	er	
			Silver- Air Puri	ionized fier Filte		Deodo Filt		Softdry cloth	System Control Interface	Contract Terminal Interface	Wi-Fi Interface		nector able		Controlle	r		troller Ider
Indoor L	Unit	MAC- 2360 FT	MAC- 2370 FT	MAC- 2380 FT	MAC- 2390 FT	MAC- 3000 FT-E	MAC- 3010 FT-E	MAC- 1001 CL-E	MAC- 334IF-E	MAC- 397IF-E	MAC- 567IF-E	MAC- 1702RA-E	MAC- 1710RA-E	PAR- 40MAA	PAR- CT01MAA	PAC- YT52CRA	MAC- 1200RC-E	MAC- 1300RC-E
Wall -					•		•	•	•	•		•	•	•1	•1	•1		•*2
moun					•			•	•	•		•	•	•1	•1	•1		•*2
	MSZ-LN35VG2(W)(V)(R)(B)				•		•	•	•	•		•	•	•1	•1	•1		*2 *2
	MSZ-LN50VG2(W)(V)(R)(B) MSZ-LN60VG2(W)(V)(R)(B)				•		•	•	•	•		•	•	•1	•1	•1		• 2
	MSZ-FT25VG		•		-				•	•	•*3	•	•	•1	•1	•1		•
	MSZ-FT35VG	-	•						•	•	•*3	•	•	•1	•1	•1		•
	MSZ-FT50VG		•						•	•	•*3	•	•	•1	•1	•1		•
	MSZ-AP15VG										•*3			•1	•1	•1		
	MSZ-AP20VG								•	•	•*3	•	•	•1	•1	•1		•
	MSZ-AP25VG												•	•1	•1	•1		•
	MSZ-AP35VG													•1	•1	•1		
	MSZ-AP42VG		•						•		٠	•	•	•1	•1	•1		
	MSZ-AP50VG		•						•	•	•	•	•	•1	•*1	•1		•
	MSZ-AP60VG MSZ-AP71VG	•							•	•	•	•	•	•1	•1	•1		•
	MSZ-AP71VG MSZ-EF18VG(W)(B)(S)	-	•			-		•	•	•	•*3	•	•	•1	•1	•1		•
	MSZ-EF22VG(W)(B)(S)		•					•	•	•	•*3	•	•	•1	•1	•1		•
	MSZ-EF25VG(W)(B)(S)		•					•	•	•	•*3	•	•	•1	•1	•1		•
	MSZ-EF35VG(W)(B)(S)		•					•	•	•	•*3	•	•	•1	•1	•1		•
	MSZ-EF42VG(W)(B)(S)										•*3			•*1	•1	•1		
	MSZ-EF50VG(W)(B)(S)								•	•	•*3	•	•	•1	•1	•1		•
	MSZ-BT20VG								•	•	•*3	•	•	•1	•1	•1		
	MSZ-BT25VG										•*3			•1	•1	•1		
	MSZ-BT35VG	-	•						•	•	•*3	•	•	•1	•1	•1		
	MSZ-BT50VG MSZ-HR25VF		•						•	•	•*3	•	•	•1	•1	•1		
	MSZ-HR35VF		•						•	•	•	•	•	•	•	•	•	
	MSZ-HR42VF		•						•		•	•	•	•	•	•	•	
	MSZ-HR50VF		•						•	•	•	•	•	•	•	•	•	
ŝ	MSZ-HR60VF		•						•	•	•	•	•	•1	•1	•1	•	
SERIES	MSZ-HR71VF								٠	٠	٠	•	•	•1	•1	•1	•	
S	MSY-TP35VF																	
Σ	MSY-TP50VF		•						•		•	•	•			•		
	MSZ-FH25VE2			•		•			•	•	•	•	•	•1	•1	•1		•
	MSZ-FH35VE2 MSZ-FH50VE2			•		•			•	•	•	•		•1	•1	•1		•
	MSZ-SF15VA			-		•			•	•	•	•	•	•1	•1	•1		•
	MSZ-SF13VA MSZ-SF20VA								•		•			•1	•1	•1		•
	MSZ-SF25VE3		•						•	•	•			•1	•1	•1		•
	MSZ-SF35VE3		•						•	•	•		1	•1	•1	•1		•
	MSZ-SF42VE3													•1	•1	•1		
	MSZ-SF50VE3		٠						•	٠	٠			•1	•1	•1		•
	MSZ-GF60VE2	•							•	•	•			•1	•1	•1		•
	MSZ-GF71VE2								•	•	•			•1	•1	•1		•
	MSZ-WN25VA		•							•	•	•	•	•	•	•		•
	MSZ-WN35VA MSZ-DM25VA								•	•	•	•	•	•1	•	•1	•	
	MSZ-DM35VA		•						•	•	•	•	•	•1	•1	•1	•	
	MSZ-HJ25VA	1	•						-	-	-	•	•				•	
	MSZ-HJ35VA		•									•	•				•	
	MSZ-HJ50VA		•									•	٠				•	
	MSZ-HJ60VA		•									•	•				•	
	MSZ-HJ71VA		•						6	-	6	•						
Floor stand		-	•	-					•	•	•	•	•	•1	•1	•1		•
Sidhu	MFZ-KJ35VE2 MFZ-KJ50VE2		•						•	•	•	•	•	•1	•1	•1		•
	MFZ-KJ50VE2 MFZ-KT25VG		•						•	•	•	•	•	•1	•1	•1		•
	MFZ-KT25VG MFZ-KT35VG	-	•	<u> </u>		-			•	•	•	•	•	•1	•1	•1		•
	MFZ-KT50VG		•						•	•	•	•	•	•1	•1	•1		•
	MFZ-KT60VG		•						•	•	•	•	•	•1	•1	•1		•
1-way			•						•	•	•			•1	•1	•1		
casse	MLZ-KP35VF										•	•		•*1 •*1	•*1	•*1 •*1		
															•1			•

\*1 MAC-334IF-E or MAC-397IF-E is required. When using MAC-397IF-E with PAR-40MAA, brightness needs to be set as low. \*2 Available only for LN18/25/35/50/60VG2W. \*3 Outside attachment only.

## Optional Parts List <Indoor>

$\square$		Option						Filter						3D i	-see			_										
		Option	Oil Mist	Long		-ligh-ef	ficiona	,						Ser	nsor	Shutter	Multi- functional	Fres	h-air Duct	Space			Dre	ain Pu	mn			
			Filter	Life		Hign-efi Filter E				I	Filter B	ох		Co	ner	Plate	Casement	Fla		Panel				ant F U	πÞ			
1			Element	Filter										Pa	IIIEI				-		-							
1			PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAC-	
Ind	oor Unit		SG38	KE85	SH59 KF-E	SH88 KF-E	SH89 KF-E	SH90 KF-E	KE92 TB-E	KE93 TB-E	KE94 TB-E	KE95 TB-E	KE250 TB-F	SF1	SE1 ME-E	SJ37 SP-E	SJ41 TM-E	SH65 OF-E	SF28 OF-E	SJ65 AS-E	SH94 DM-E	SK01	SJ92 DM-E	SJ93	SJ94 DM-E	KE07 DM-E	KE06 DM-FI	
			KF-E	LAF	NF-E	NF-E	NF-E	NF-E	ID-E	ID-E	ID-E	ID-E	10-1		WE-E	SP-E	I IVI-E	UF-E	UF-E	AS-E	DIVI-E	DIVI-E	DIVI-E	DIVI-E	DIVI-E	DIVI-E	UN-FI	
	4-way	SLZ-M15FA												٠												-		
	cassette	SLZ-M25FA												•												<u> </u>		
		SLZ-M35FA																										
ES		SLZ-M50FA												•		-					-	-	-		-	+	-	-
SERIES	Coiling	SLZ-M60FA SEZ-M25DA(L)												•														
s S	Ceiling - conceald	SEZ-M25DA(L) SEZ-M35DA(L)																								•		
0,	contocula	SEZ-M35DA(L) SEZ-M50DA(L)																				-			-		+	
		SEZ-M60DA(L)																								•		
		SEZ-M71DA(L)																								•		
	4-way	PLA-ZM35EA			•										•	•	•	•		•	1	1	1		1	-	1	
	Cassette	PLA-ZM50EA			•										•	•	•	•		•						<u> </u>		
		PLA-ZM60EA			•										•	•	•	•		•								
		PLA-ZM71EA			•										•	•	•	•		•						<b>—</b>		
		PLA-ZM100EA			•										•	•	•	•		•								
		PLA-ZM125EA															٠											
		PLA-ZM140EA														•	•	•										
		PLA-M35EA													•	•	•	•		•								
		PLA-M50EA															٠											
		PLA-M60EA													٠	٠	٠	•		•	<b></b>	-			-	⊢	-	
		PLA-M71EA			•										•	•	•	•		•						<u> </u>		
		PLA-M100EA			•										•	•	•	•		•								
		PLA-M125EA			•										•	•	•	•		•							-	<u> </u>
	Coiling	PLA-M140EA			•										•	•	•	•		•						-		
	Ceiling - conceald	PEAD-M35JA(L) PEAD-M50JA(L)							•																	-		
	Sonocaiu	PEAD-M60JA(L)							-	•						-					-	-	-		-	<u> </u>	+	-
		PEAD-M00JA(L)								•																-		
S		PEAD-M100JA(L)								-	•																	
SERIES		PEAD-M125JA(L)									•															<u> </u>	1	
SE		PEAD-M140JA(L)									-																	
		PEA-M200LA											٠															
		PEA-M250LA																										
	Wall -	PKA-M35LA(L)																										
	mounted	PKA-M50LA(L)																										
		PKA-M60KA(L)																			۲					<u> </u>		
		PKA-M71KA(L)																			۰							
		PKA-M100KA(L)																			٠					⊢	-	
	Ceiling - suspended	PCA-M35KA				•																	•			-		
	suspended	PCA-M50KA																								-		
		PCA-M60KA					•																		•	+	+	
		PCA-M71KA PCA-M100KA					•																	•		-		
		PCA-M100KA PCA-M125KA						•																•		-		
		PCA-M125KA PCA-M140KA						•													-			•		-	-	<u> </u>
		PCA-M71HA																						-				
	Floor -	PSA-RP71KA	-																-									
	standing	PSA-RP100KA																				1			1	<u> </u>	1	
		PSA-RP125KA																										
		PSA-RP140KA																										
_																										<u> </u>	1	

\*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 PAC-SH29TC-E is required for wireless model.
\*4 Group control cannot be used.

										Wir	ed Remo	ote Cont	roller		Wirele	ess Re	mote C				0			
	Decorative System Control Contact Wi-Fi Power Supply									ountoint	00000	Terminal	Signal Signal Kit							Remote On/Off	Remote Operation	Connector Cable for		
	Cov		Interface	Terminal Interface	Interface			rmina				Controlle	ər	Block kit for PKA		nder		Receive	r	(Sender & Receiver)	Sensor	Adapter	Adapter	Remote Display
	PAC-	PAC-	MAC-	MAC-	MAC-	PAC-	PAC-	PAC-	PAC-	PAC-	PAR-	PAR-	PAC-	PAC-	PAR-	PAR-	PAR-	PAR-	PAR-	PAR-	PAC-	PAC-	PAC-	PAC-
	SF81 KC-E	SF82 KC-E	334IF-E	397IF-E	567IF-E	SK38 HR-E		SG96 HR-E	SG97 HR-E		40MAA	CT01MAA	YT52CRA	SH29TC-E	SL97 A-E	SL100 A-E	SA9C A-E	SF9 FA	SE9 FA-E	SL94 B-E	SE41 TS-E	SE55 RA-E	SF40 RM-E	SA88 HA-E
											٠					•*4							•*2	
			٠	•								٠	٠			•4					٠		•*2	•
					•								•			•*4							•*2	•
			•	•	•						•	•	•		•	•*4 •*4		•			•	•	•*2 •*2	•
_			•	•	•						DA	DA	DA		•		•	•			•	•	• 2	•
			•	•	•						DA	DA	DA		•		•				•	•	•*2	•
			•	•	•						DA	DA	DA		•		•				•	•	• 2	•
			٠	٠	٠						DA	DA	DA		•								•*2	•
											DA	DA	DA										•*2	
			•1	•1						٠		•				•4					•		•*2	
			•1	•1	•					٠	•	•	•		•	•4			•		•	•	•*2	•
			•1	•1	•					•	•	•	•		•	•4			•		•	•	•*2	•
			•1	•1	•		<u> </u>			•	•	•	•		•	•*4 •*4			•		•	•	•*2 •*2	•
			•1	•1	•					•	•		•		•	• 4			•		•	•	• 2	•
			•1	•1	•					•	•	•	•		•	• 4			•		•	•	•*2	•
			•1	•1	•					•	•	•	•		•	•4			•		•	•	•*2	•
			•1	•1						٠					٠	•4						۲	•*2	
			•1	•1												•4							•*2	
			•*1	•*1								٠				•4							•*2	
			•*1	•*1												•4							•*2	
			•	•	•					•	•	•	•		•	•4			•		•	•	•*2	•
			•	•1	•				•	٠	•	•	•		•	•*4			•		•	•	•*2 •*2	•
-			•1	•1	•				•		•	•	•		•		•				•	•	•*2	•
			•1	•1	•				•		•	•	•		•		•				•	•	•*2	•
			•1	•1													٠					۲	•*2	
			•1	•1																			•*2	
			•1	•1																			•*2	
			•1	•1	•						•	•	•								•	•	•*2	•
			•1	•1	•						•	•	•		•		•				•	•	•*2	•
_			•*1 •*1	•*1 •*1	•						•	• *3	• *3		•	•	•				•	•	•*2 •*3	•
			•1	•1	•	-					• 3	• 3	• 3	•	•	•					•	•	• 2	•
-			•1	•1	•		•				• 3	• 3	•*3	•	•	-					•	•	-	•
			•1	•1	•		•				•*3	•.3	•*3	•	•						•	•		•
			•1	•1	•		٠				•*3	•*3	•*3	•	•									
			•1	•1	•						•	•	•										•*2	•
			•1	•1																			•*2	
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## Optional Parts List <Outdoor>

$\sim$		Option			Distribu	tion Pipe						Joint	Pipe				Liquid	Refrigera	int Dryer	
		~	For (50:		For <sup>-</sup> (33:3	Triple 3:33)	For Qu (25:25	adruple :25:25)	Unit ø6.35 > Pipe	Unit ø9.52 > Pipe	Unit ø15.88 > Pipe	Unit ø9.52 > Pipe	Unit ø6.35 > Pipe	Unit ø9.52 > Pipe	ø12.7 >	Unit ø12.7 > Pipe	For pipe	For pipe	For pipe	
								1			ø19.05			ø12.7	ø9.52	ø15.88	Ø6.35	ø9.52		
Out	tdoor Unit		MSDD- 50TR-E	MSDD- 50WR-E	MSDT- 111R-E	MSDT- 111R3-E	MSDF- 111R-E	MSDF- 111R2-E	PAC- SG72 RJ-E	PAC- SG73 RJ-E	PAC- SG75 RJ-E	PAC- SG76 RJ-E	PAC- 493 PI	A454	MAC- A455	MAC- A456 JP-E	PAC- SG81 DR-E	PAC- SG82 DR-E	SG85	
	L Series	MUZ-LN25VG																		
		MUZ-LN25VGHZ MUZ-LN35VG																		
		MUZ-LN35VGHZ																		
		MUZ-LN50VG MUZ-LN50VGHZ																		
		MUZ-LN60VGHZ MUZ-LN60VG																		
	FT Series	MUZ-FT25VGHZ																		
		MUZ-FT35VGHZ MUZ-FT50VGHZ																		
	A Series	MUZ-AP15VG																		
		MUZ-AP20VG																		
		MUZ-AP25VG MUZ-AP25VGH																		
		MUZ-AP35VG																		
		MUZ-AP35VGH																		
		MUZ-AP42VG MUZ-AP42VGH																		
		MUZ-AP42VGH MUZ-AP50VG																		
		MUZ-AP50VGH																		
		MUZ-AP60VG MUZ-AP71VG																		
	E Series	MUZ-AP71VG MUZ-EF25VG																		-
		MUZ-EF25VGH																		
		MUZ-EF35VG MUZ-EF35VGH														-	<u> </u>			
		MUZ-EF35VGH MUZ-EF42VG																		
		MUZ-EF50VG																		
	BT Series	MUZ-BT20VG																		
		MUZ-BT25VG MUZ-BT35VG																		
		MUZ-BT50VG																		
	HR Series	MUZ-HR25VF																		
ES		MUZ-HR35VF MUZ-HR42VF																		
SERIES		MUZ-HR50VF																		
Σ		MUZ-HR60VF																		
	TP Series	MUZ-HR71VF MUY-TP35VF																		
		MUY-TP50VF																		
	F Series	MUZ-FH25VE																		
		MUZ-FH25VEHZ MUZ-FH35VE																		
		MUZ-FH35VEHZ																		
		MUZ-FH50VE																		
	S Series	MUZ-FH50VEHZ MUZ-SF25VE																		
	O Genes	MUZ-SF25VEH																		
		MUZ-SF35VE																		
		MUZ-SF35VEH MUZ-SF42VE																		
		MUZ-SF42VEH																		
		MUZ-SF50VE																		
	G Series	MUZ-SF50VEH MUZ-GF60VE																		
		MUZ-GF71VE																		
	W Series	MUZ-WN25VA																		
	D Series	MUZ-WN35VA MUZ-DM25VA														-		-		-
		MUZ-DM35VA																		
	H Series	MUZ-HJ25VA																		
		MUZ-HJ35VA MUZ-HJ50VA																		
		MUZ-HJ60VA																		
	Ormanat	MUZ-HJ71VA																		
	Compact floor	MUFZ-KJ25VE MUFZ-KJ25VEHZ																		
		MUFZ-KJ35VE																		
		MUFZ-KJ35VEHZ																		
		MUFZ-KJ50VE MUFZ-KJ50VEHZ						-								-		-	-	-
Ss	ERIES	SUZ-M25VA																		
(R3		SUZ-M35VA													٠					
		SUZ-M50VA SUZ-M60VA																		
		SUZ-MBOVA SUZ-M71VA																		
	ERIES	SUZ-KA25VA6																		
	10A)	SUZ-KA35VA6																		
		SUZ-KA50VA6 SUZ-KA60VA6							-					-			<u> </u>		-	
		SUZ-KA71VA6																		

Air Outlet Guide MAC- MAC- MAC- MAC- MAC- PAC- PAC- 881 882 856 886 883 SJ07 SG59 SH SG SG SG SG-E SG SG-E SG-E SG- SG-E SG-E SG-E SG-E SG-E SG-E SG-E SG-E									otection	Guide	Dra	ain Soc	ket	р	Freeze- reventio Heater Drain P	n	Centra	lized Dr	ain Pan	M-NET Adapter	M-N Conv	IET erter	Control/ Service Tool	Step Interface 1 PC board w/attach- ment kit	Insul fc Accum	ation or nulator	High Static Fan Motor
MAC- 881 SG	MAC- 882 SG	MAC- 856 SG	MAC- 886 SG-E	MAC- 883 SG	PAC- SJ07 SG-E	PAC- SG59 SG-E	PAC- SH96 SG-E	PAC- SJ06 AG-E	PAC- SH63 AG-E	PAC- SH95 AG-E	PAC- SJ08 DS-E	PAC- SG60 DS-E	PAC- SG61 DS-E	MAC- 643 BH-E	MAC- 644 BH-E	MAC- 646 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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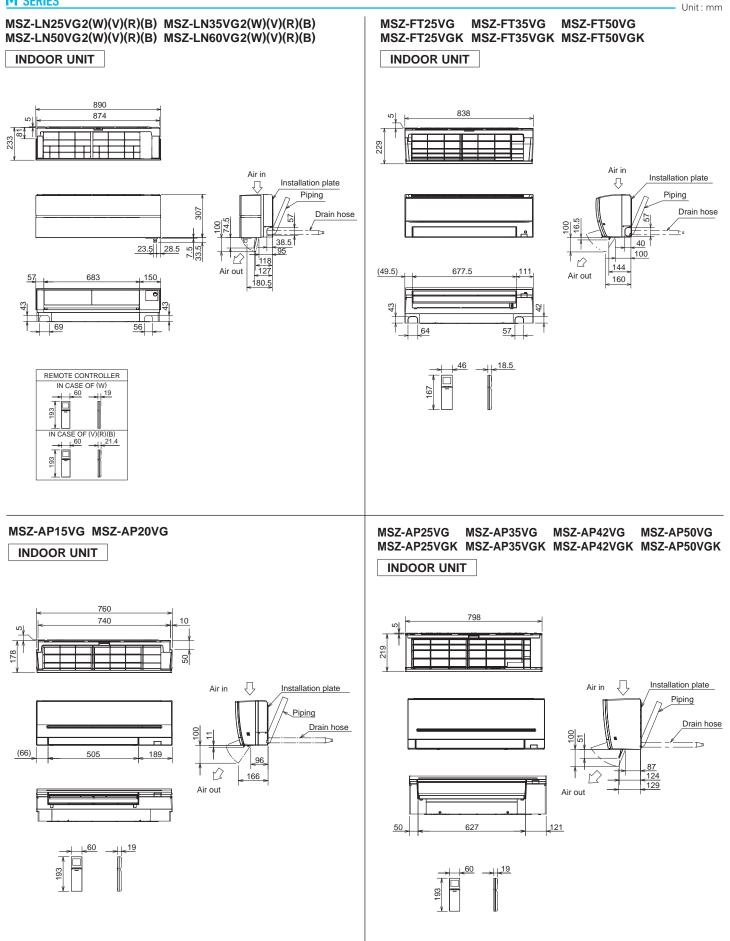
## Optional Parts List <Outdoor>

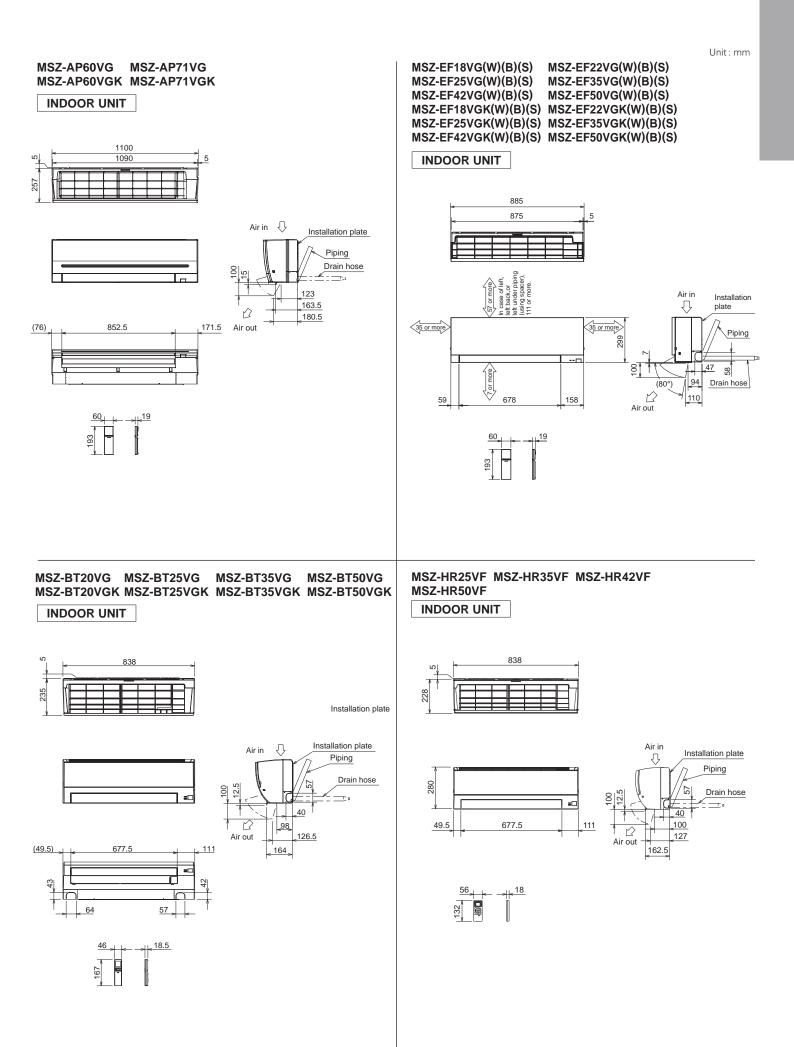
$\square$		Option			D	istributi	ion Pip	e			Bra	nch Pip	e/Hea	ider (Jo	oint)					Joint	Pipe					Liquid F	Refrigera	nt Dryer	
		Spuoli			Twin :50)		For <sup>-</sup> (33:3	Triple 33:33)	Quad	or druple :25:25)	of u 2-br	ase sing anch xes	Branch Pipe	Hea	ader	-	ø6.35 -> ø9.52			Unit ø15.88 > Pipe ø19.05	Unit ø9.52 > Pipe ø15.88	Unit ø6.35 > Pipe ø9.52	> Pipe	ø12.7 > Pipe	> Pipe	For pipe ø6.35	For pipe ø9.52	For pipe ø12.7	
0	utdoor Unit		MSDD- 50TR-E	MSDD-	MSDD-	MSDD- 50WR2-E	MSDT- 111R-F	MSDT- 111R3-E	MSDF- 1111R-E	MSDF- 1111R2-F	MSDD-		Y62-	Y64-	Y68-	SG72	PAC- SG87	SG73	SG88	PAC- SG75	PAC-	PAC-	Flare MAC-		MAC-	PAC- SG81	SG82	SG85	
			5011(-L	. 501112-1							50AR-E	50BR-E	G-E	G-E	G-E	RJ-E	RJ-E	RJ-E	RJ-E	RJ-E	RJ-E	PI	JP-E	JP-E	JP-E		DR-E	DR-E	
	Power Inverter (R32)	PUZ-ZM35VKA PUZ-ZM50VKA PUZ-ZM60VHA PUZ-ZM71VHA PUZ-ZM100VKA		•				•									•		•							•	•		
		PUZ-ZM100YKA PUZ-ZM125VKA PUZ-ZM125YKA PUZ-ZM140VKA PUZ-ZM140YKA PUZ-ZM140YKA PUZ-ZM200YKA PUZ-ZM250YKA		• • • •		•		• • • • • •		• • • •									•								•		
	Power Inverter (R410A)	PUHZ-ZRP35VKA2 PUHZ-ZRP50VKA2 PUHZ-ZRP60VHA2 PUHZ-ZRP71VHA2 PUHZ-ZRP100VKA3 PUHZ-ZRP100VKA3	•				•									•		•		•						•	•		
P SERIES		PUHZ-ZRP125VKA3 PUHZ-ZRP125YKA3 PUHZ-ZRP140VKA3 PUHZ-ZRP140VKA3 PUHZ-ZRP200YKA3 PUHZ-ZRP250YKA3	•		•		• • • • • •		• • • •									•		•							•	•	
	Standard Inverter (R32)	PUZ-M100VKA           PUZ-M125VKA           PUZ-M140VKA           PUZ-M100YKA           PUZ-M100YKA           PUZ-M140YKA           PUZ-M140YKA           PUZ-M120YKA           PUZ-M120YKA           PUZ-M20YKA		0 0 0 0		•		•		•																	• • • • •	•	
	Standard Inverter (R410A)	PUHZ-P100VKA PUHZ-P125VKA PUHZ-P140VKA PUHZ-P100YKA PUHZ-P125YKA PUHZ-P140YKA PUHZ-P140YKA					•		•																		• • • • •		
M) (R3	XZ SERIES 32)	PUH2-P250YKA3 MXZ-2F33VF3 MXZ-2F53VF(H)3 MXZ-2F53VFHZ MXZ-3F54VF3 MXZ-3F54VF3 MXZ-3F68VF3 MXZ-4F72VF3 MXZ-4F83VF MXZ-4F83VFHZ MXZ-4F83VFHZ MXZ-6F102VF MXZ-6F102VF MXZ-2HA40VF MXZ-2HA50VF MXZ-2HA50VF																			• • • •	• • • •		• • • •	• • • •				
	XZ SERIES 410A)	MXZ-2D33VA MXZ-2D53VA(H)2 MXZ-2D53VA(H)2 MXZ-2E53VAHZ MXZ-3E54VA MXZ-3E68VA MXZ-4E72VA MXZ-4E83VA MXZ-4E83VAHZ MXZ-5E102VA																			• • •	• • •	•     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •	• • •	• • •				
	IMY Series 410A)	MXZ-6D122VA2 MXZ-2DM40VA MXZ-3DM50VA PUMY-SP112VKM(-BS) PUMY-SP112VKM(-BS) PUMY-SP125VKM(-BS) PUMY-SP125VKM(-BS)									•	•	•	•	•								•	•					
		PUMY-SP125YKM(ES) PUMY-SP140YKM(-BS) PUMY-SP140YKM(-BS) PUMY-P112YKM(5(-BS) PUMY-P125YKM(5(-BS) PUMY-P125YKM(5(-BS) PUMY-P125YKM(5(-BS) PUMY-P140YKM(5(-BS) PUMY-P140YKM(2(-BS))									• • • • • • • • • • •	• • • • • • • • • • • • • •		• • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •			• • • •		• • • •									
	OWERFUL ATING	PUHZ-SHW112VHA PUHZ-SHW112VHA PUHZ-SHW112YHA PUHZ-SHW140YHA	•																								•		

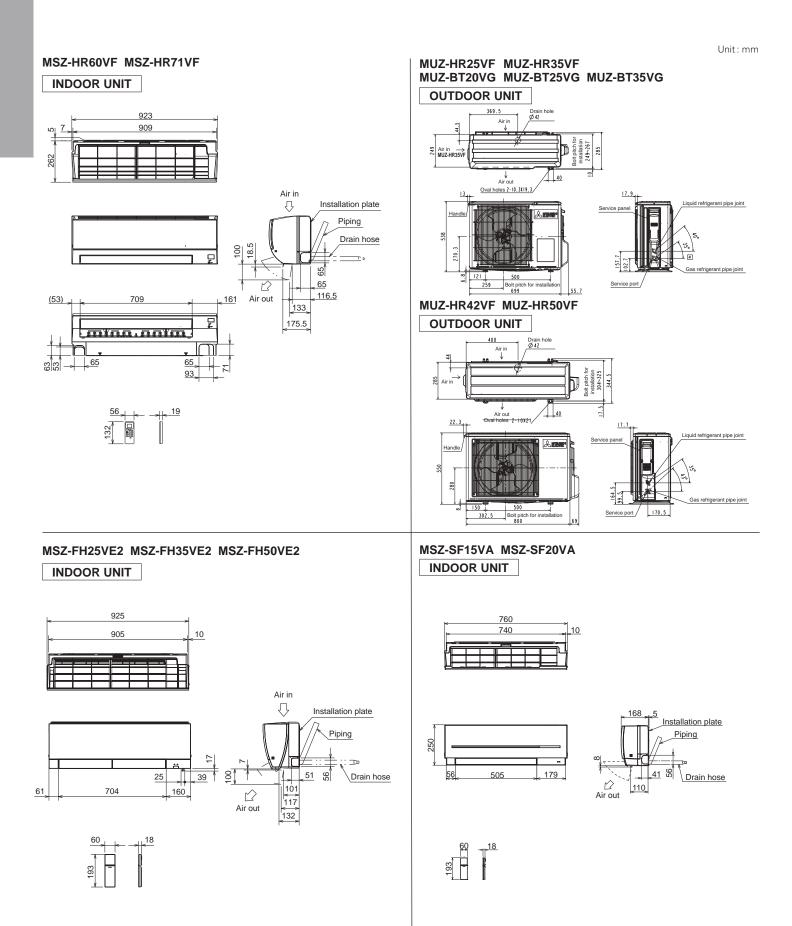
	Branch Box	Reactor Box	Different Diameter Joint											
	Outer Cover	Reactor Box	ø9.52>ø12.7	ø12.7>ø9.52	ø12.7>ø15.88	ø6.35>ø9.52	ø9.52>ø15.88							
	PAC- AK350CVR-E	PAC- RB01BC	MAC- A454JP	MAC- A455JP	MAC- A456JP	PAC- 493PI	PAC- SG76RJ-E							
PAC-MK34BC (Flare)	•	•	•	•	•	•	•							
PAC-MK54BC (Flare)	•	•	•	•	•	•	•							

	Air O Gui	de				let Gui				otection	-		ain Soc				for Dra	ain Pan	1)			entraliz Drain Pa	in	M-NET Adapter		erter	Control/ Service Tool	mer	face board tach- it kit	fc Accur	lation or mlator	Con- nection Kit	High Static Fan Motor
	MAC- 881 SG	MAC- 882 SG	MAC- 856 SG	MAC- 886 SG-E	MAC- 883 SG	PAC- SJ07 SG-E	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- SK52 ST	PAC- IF012 B-E	PAC-(S) IF013 B-E	MAC- 892 INS-E	MAC- 893 INS-E	PAC- LV11 M-J	PAC- SJ71 FM-E
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# External Dimensions



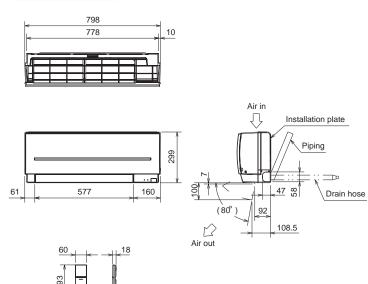




Unit : mm

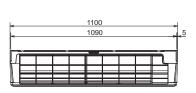
#### MSZ-SF25VE3 MSZ-SF35VE3 MSZ-SF42VE3 MSZ-SF50VE3

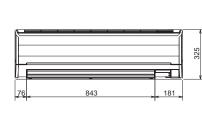
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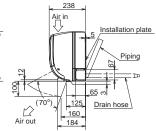


#### MSZ-GF60VE2 MSZ-GF71VE2

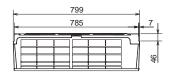
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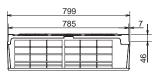


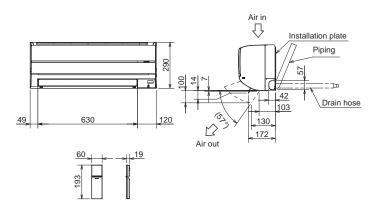


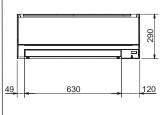
MSZ-WN25VA MSZ-WN35VA INDOOR UNIT

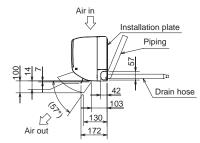


MSZ-DM25VA MSZ-DM35VA INDOOR UNIT











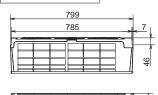
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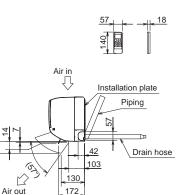
#### MSZ-HJ25VA MSZ-HJ35VA MSZ-HJ50VA **INDOOR UNIT**

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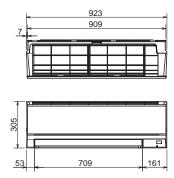


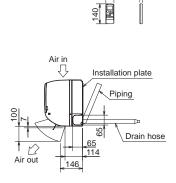


#### MSZ-HJ60VA MSZ-HJ71VA MSY-TP35VF MSY-TP50VF

630

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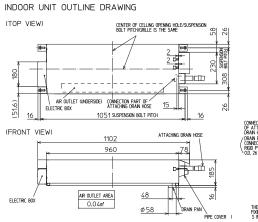


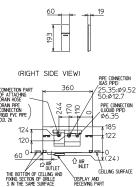


<u>57</u>

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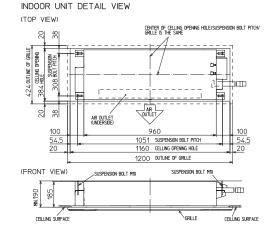
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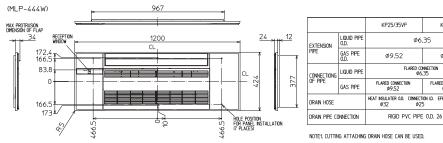


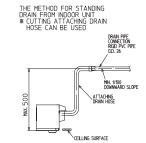
REMOTE CONTROLLER OUTLINE DRAWING





## GRILLE OUTLINE DRAWING





KP50VI

Ø12.7

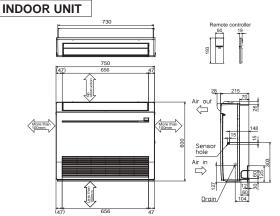
FLARED CONNECTION Ø12.7

N ID. EFFECTIVE LENG 480

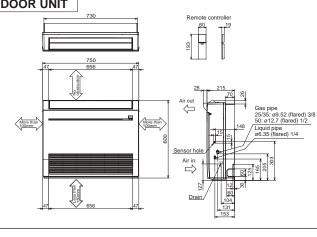
¢6.35

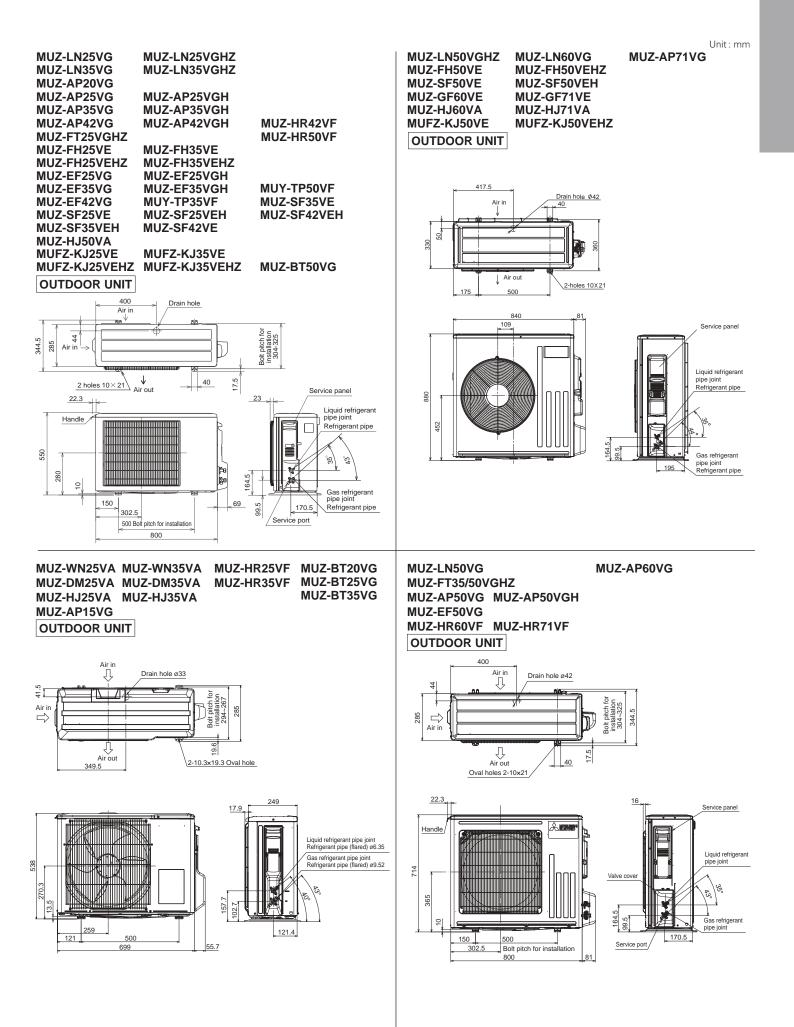
185

MFZ-KT25VG MFZ-KT35VG MFZ-KT50VG MFZ-KT60VG



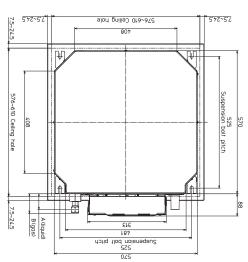
#### MFZ-KJ25VE2 MFZ-KJ35VE2 MFZ-KJ50VE2 **INDOOR UNIT**



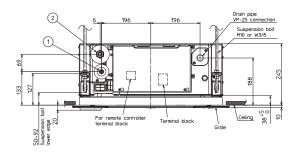


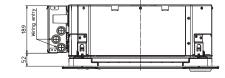
## **S** SERIES

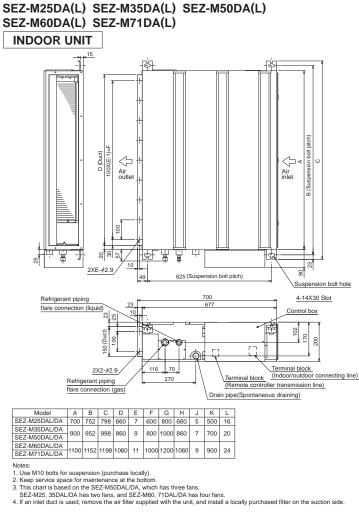
#### SLZ-M15FA SLZ-M25FA SLZ-M35FA SLZ-M50FA SLZ-M60FA INDOOR UNIT



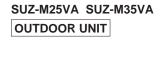
Models	<ol> <li>Refrigerent pipe (liquid)</li> </ol>	<ol> <li>Refrigerent pipe (gas)</li> </ol>	A	В
SLZ-M15FA SLZ-M25FA SLZ-M35FA	¢6.35mm flared connection 1/4F		63mm	72mm
SLZ-M50FA			63mm	78mm
SLZ-M60FA			63mm	78mm

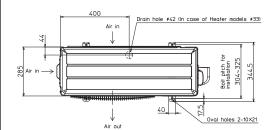


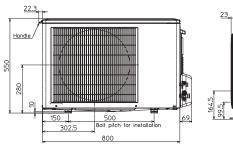


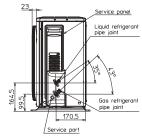


187

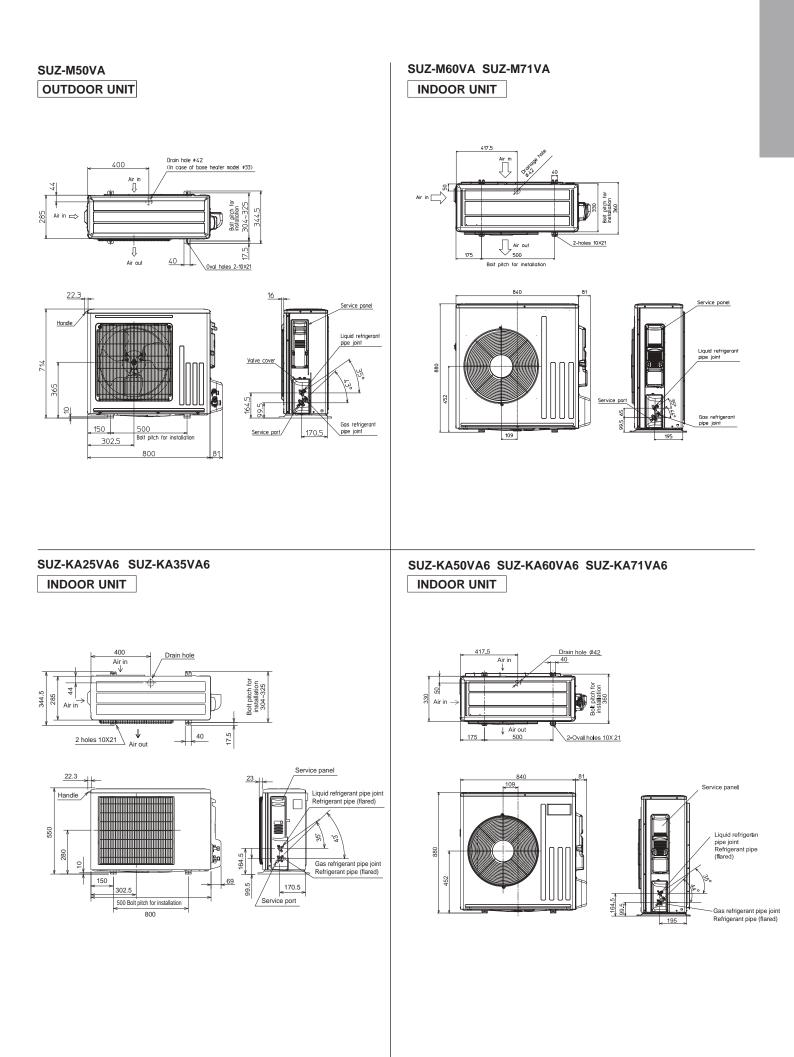




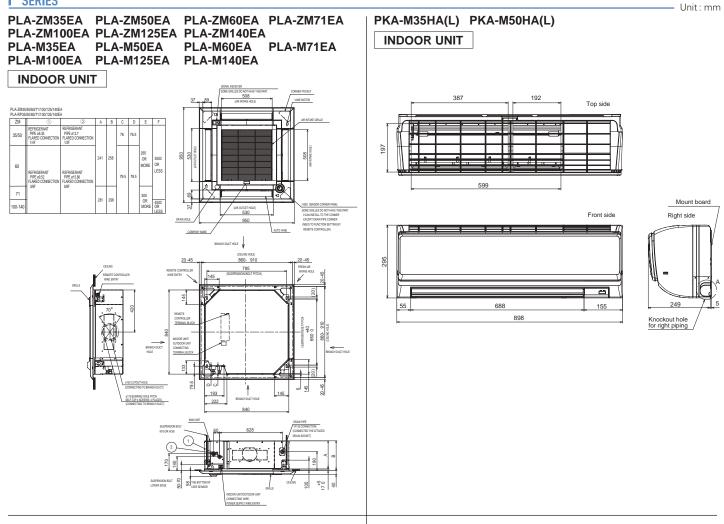




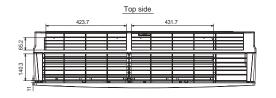


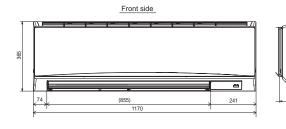


## **P** SERIES

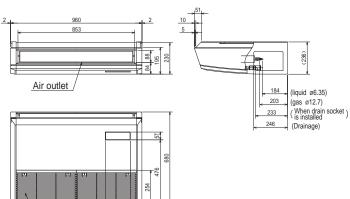


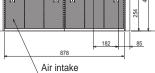
# PKA-M60KA(L) PKA-M71KA(L) PKA-M100KA(L) INDOOR UNIT













Right side

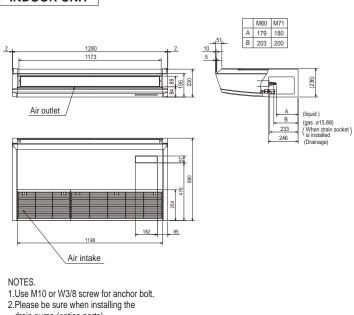
295

Mount board

Knockout hole for right piping

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.

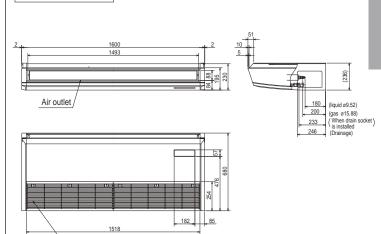
# PCA-M60KA PCA-M71KA



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



#### NOTES.

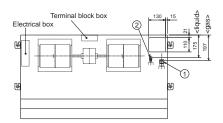
1.Use M10 or W3/8 screw for anchor bolt.

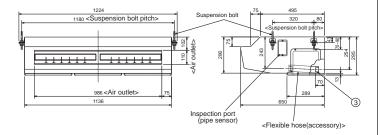
Air intake

2.Please be sure when installing the

drain pump (option parts), refrigerant pipe will be only upward.

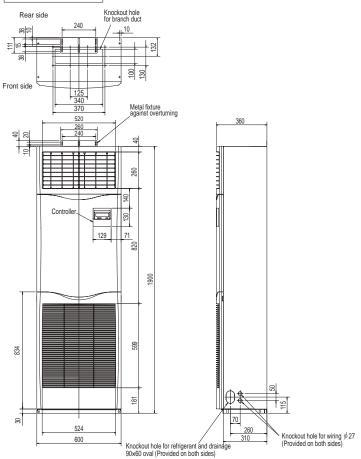
#### PCA-M71HA INDOOR UNIT





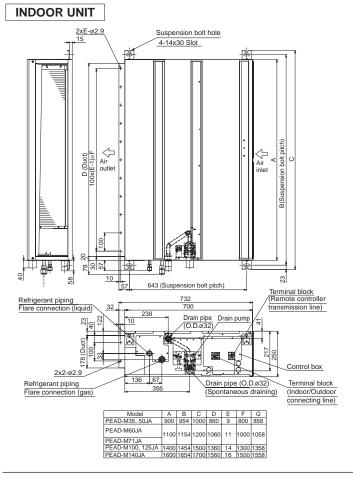
①Refrigerant pipe connection(gas pipe side/flared connection)
 ②Refrigerant pipe connection(liquid pipe side/flared connection)
 ③Flexible hose(accessory) —Drainage pipe connection

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

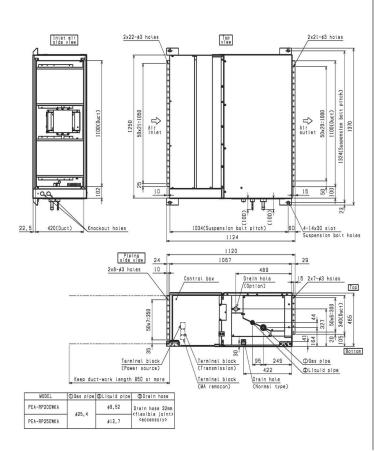


#### Unit : mm

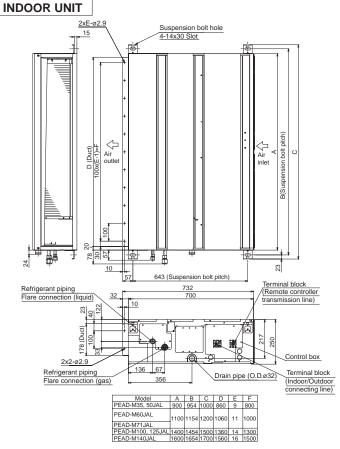
## PEAD-M35JA PEAD-M50JA PEAD-M60JA PEAD-M71JA PEAD-M100JA PEAD-M125JA PEAD-M140JA



# PEA-RP200WKA PEA-RP250WKA INDOOR UNIT

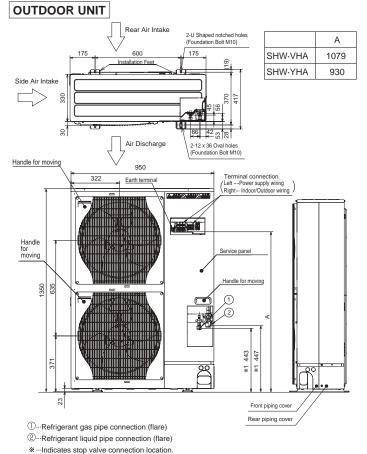


#### PEAD-M35JAL PEAD-M50JAL PEAD-M60JAL PEAD-M71JAL PEAD-M100JAL PEAD-M125JAL PEAD-M140JAL\_\_

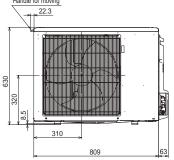


Unit : mm

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

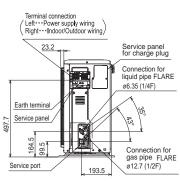


154.5 500 nstallation bolt pitch 2-U Shaped notched holes Rear Air intake (Foundation Bolt M10) 000 330 360 h Side Air intake Air discharge 32.5 40 2-10×21 oval hole (Foundation Bolt M10) Handle for moving

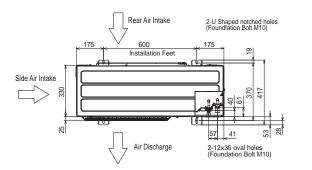


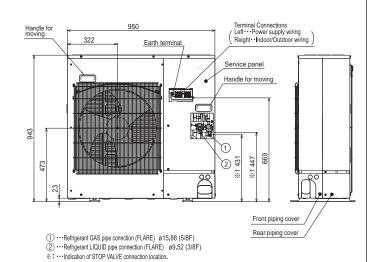
PUZ-ZM35VKA PUZ-ZM50VKA

OUTDOOR UNIT

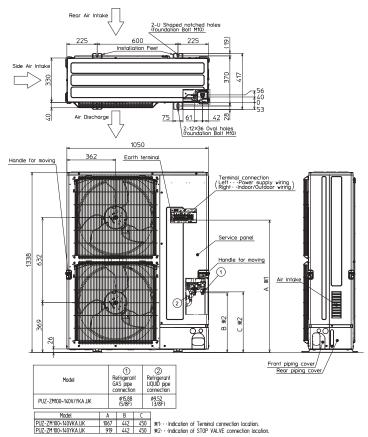


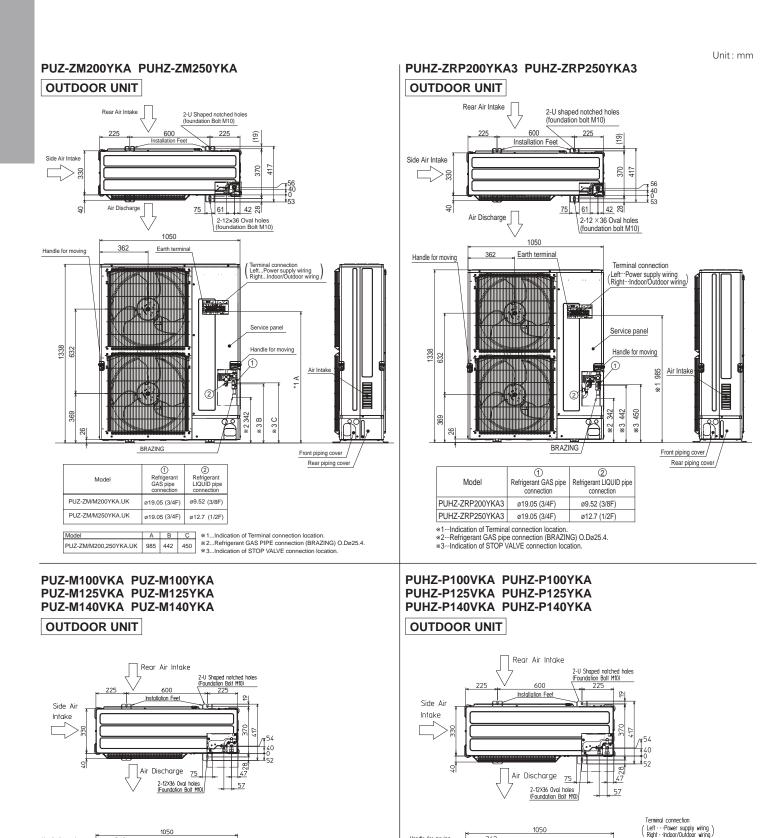
## PUZ-ZM60VHA PUZ-ZM71VHA OUTDOOR UNIT





#### PUZ-ZM100VKA PUZ-ZM125VKA PUZ-ZM140VKA PUZ-ZM100YKA PUZ-ZM125YKA PUZ-ZM140YKA OUTDOOR UNIT





Handle for moving

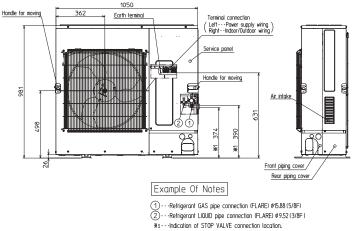
981

98

28

362

Earth terminal



 Construction (FLARE) #5.88 (5/8F)
 Construction (FLARE) #5.88 (5/8F)
 Construction (FLARE) #5.2 (3/8F)
 Construction (FLARE) #5.2 (3/8F)
 Construction (FLARE) #5.2 (3/8F) \*1...Indication of STOP VALVE connection location.

Service panel

Handle for moving

390 374

<u>Air intake</u>

Front piping cover

Rear piping cover

631

.

40

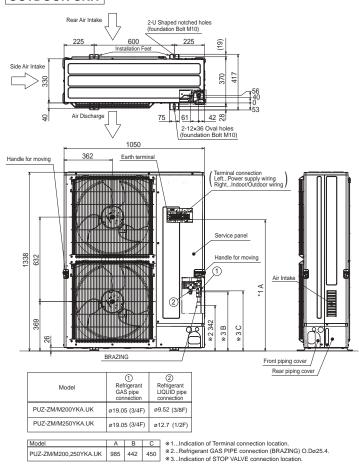
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२९ ¥ 2

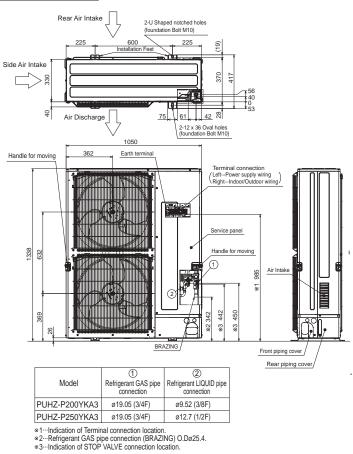
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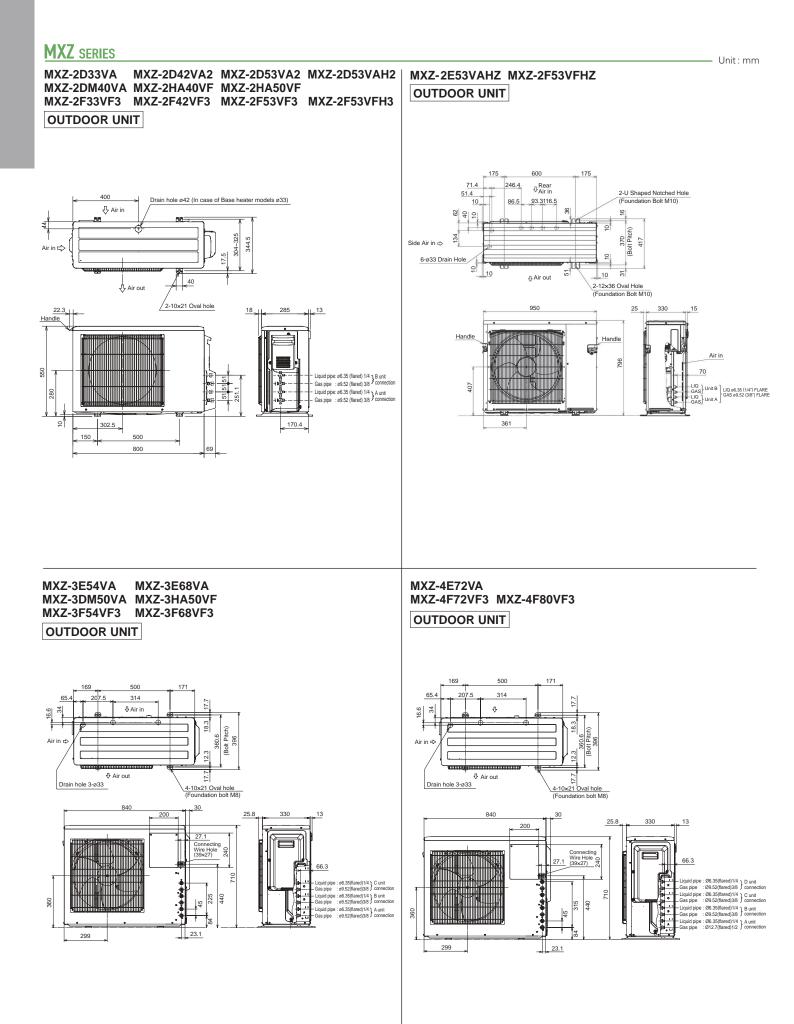
#### 193

#### PUZ-M200YKA PUZ-M250YKA OUTDOOR UNIT



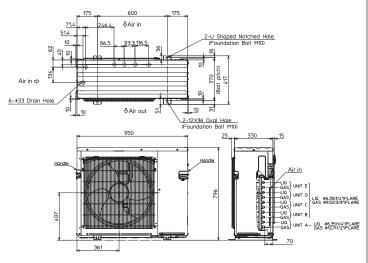
## PUHZ-P200YKA3 PUHZ-P250YKA3 OUTDOOR UNIT



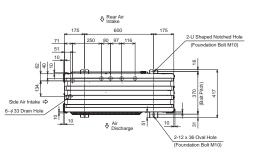


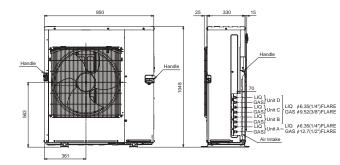
Unit : mm

## MXZ-4E83VA MXZ-5E102VA MXZ-4F83VF MXZ-5F102VF OUTDOOR UNIT

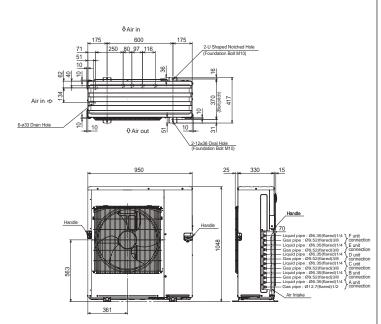


# MXZ-4E83VAHZ MXZ-4F83VFHZ



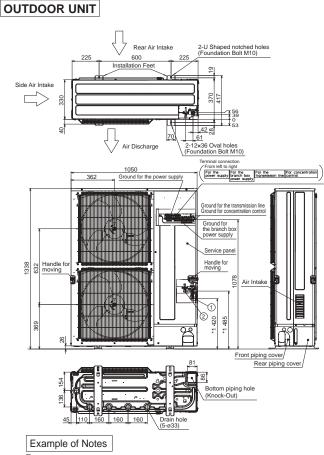


## MXZ-6D122VA2 MXZ-6F122VF OUTDOOR UNIT



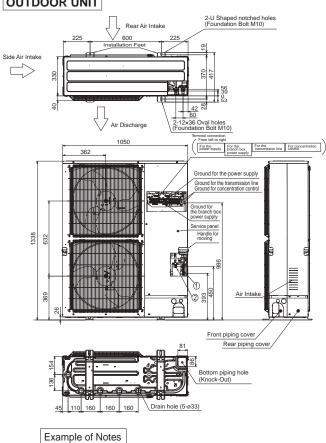
## **PUMY** SERIES

## PUMY-P112/125/140VKM5(-BS)

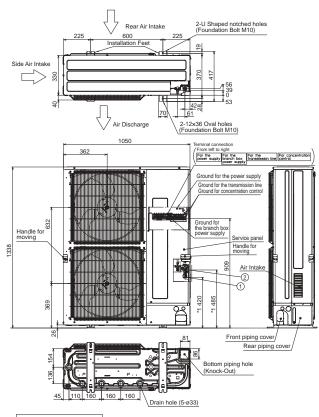


....Refrigerant GAS pipe connection (FLARE) ø15.88 (5/8F)
 ....Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
 ....Indication of STOP VALVE connection location.

# PUMY-P200YKM2(-BS)

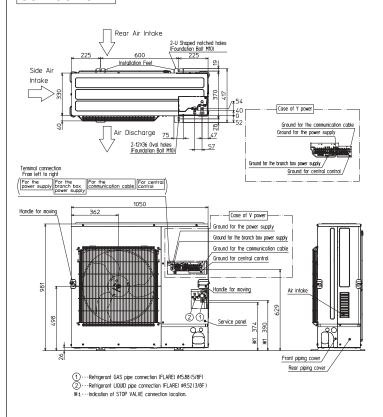


#### PUMY-P112/125/140YKM(E)4(-BS) OUTDOOR UNIT



#### Example of Notes

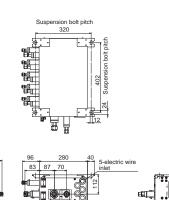
#### PUMY-SP112/125/140VKM(-BS) PUMY-SP112/125/140YKM(-BS) OUTDOOR UNIT



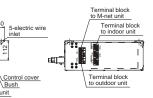
#### PAC-MK54BC

Suspension bolt: W3/W8 (M10)

## Branch box



To outdoor unit Service panel (for lev. thermistor)



Suspension bolt : W3/8(M10)

450

To indoor unit

72

67

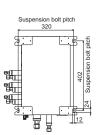
20

Reingerant pipe hared connection											
unit	To outdoor un	E	D	С	В	Α					
	3/8F	1/4F	1/4F	1/4F	1/4F	1/4F	Liquid pipe				
	5/8F	1/2F	3/8F	3/8F	3/8F	3/8F	Gas pipe				
	5/8F	1/21-	3/8F	3/81	3/81	3/8F	Gas pipe				

#### PAC-MK34BC

Suspension bolt: W3/W8 (M10)

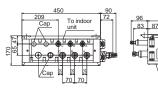
#### Branch box

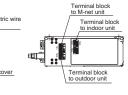


Control cover

To outdoor unit

Service panel (for lev. thermistor)





Suspension bolt : W3/8(M10)

Refrigerant pip	Refrigerant pipe flared connection											
A B C To outdoor un												
Liquid pipe	1/4F	1/4F	1/4F			3/8F						
Gas pipe 3/8F 3/8F 3/8F 5/8F												

Unit : mm

## Piping Installation

## **M** SERIES

#### Single type

Series	Class	Maximum Piping Length (m)	Maximum Height Difference (m)	Maximum Number of Bends
Selles	<outdoor unit=""></outdoor>	Total length (A)	Outdoor unit - Indoor unit (H)	Total number
MSZ-L	25 / 35	20	12	10
	50	20	12	10
	60	30	15	10
ISZ-FT	25	20	12	10
	35 / 50	30	15	10
1SZ-A	15 / 25 / 35 / 42 / 50	20	12	10
	60 / 71	30	15	10
ISZ-EF	25 / 35 / 42	20	12	10
	50	30	15	10
ISZ-BT	20 / 25 / 35 / 50	20	12	10
ISZ-HR	25 / 35 / 42 / 50	20	12	10
	60 / 71	30	15	10
ISY-TP	35 / 50	20	12	10
ISZ-F IFZ	25 / 35	20	12	10
IFZ	50	30	15	10
ISZ-S	25 / 35 / 42	20	12	10
	50 / 60	30	15	10
SZ-G	60 / 71	30	15	
SZ-W SZ-D	25 / 35	20	12	10
1SZ-HJ	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
Power Inverter (PUZ-ZM)	35 / 50	50	30	15
	60 / 71	55	30	15
	100 / 125 / 140	100	30	15
Power Inverter (PUHZ-ZRP)	35 / 50 / 60 / 71	50	30	15
	100 / 125 / 140	75	30	15
	200 / 250	100	30	15
Standard Inverter (PUZ-M & SUZ-M)	25 / 35	20	12	10
	50 / 60 / 71	30	30	10
	100	55	30	15
	125 / 140	65	30	15
Standard Inverter (PUHZ-P & SUZ-KA)	25 / 35	20	12	10
	50 / 60 / 71	30	30	10
	100 / 125 / 140	50	30	15
	200 / 250	70	30	15

#### Twin type

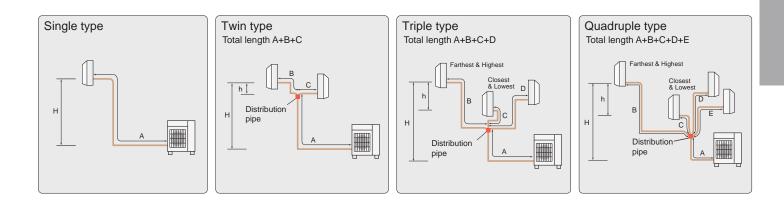
		Ma	aximum Piping Length	(m)	Maximum Heigl	nt Difference (m)	Maximum Number of Bends
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C	Pipe length difference from distribution pipe  B-C	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number
ZUBADAN (PUHZ-SHW)	80 / 112 / 140	75	8	20	30	1	15
Power Inverter (PUZ-ZM)	71	55	8	20	30	1	15
	100 / 125 / 140	100	8	20	30	1	15
	200 / 250						
Power Inverter (PUHZ-ZRP)	71	50	8	20	30	1	15
	100 / 125 / 140	75	8	20	30	1	15
	200 / 250	100	8	30	30	1	15
Standard Inverter (PUZ-M)	100	55					
	125 / 140	65	8	20	30	1	15
	200 / 250						
Standard Inverter (PUHZ-P)	100 / 125 / 140	50	8	20	30	1	15
	200 / 250	70	8	30	30	1	15

## Triple type

		Ma	aximum Piping Length	(m)	Maximum Heigh	Maximum Number of Bends	
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C+D	Pipe length difference from distribution pipe  B-C	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number
Power Inverter (PUZ-ZM)	140	100	8	20	30	1	15
	200 / 250						
Power Inverter (PUHZ-ZRP)	140	75	8	20	30	1	15
	200 / 250	100	8	30	30	1	15
Standard Inverter (PUZ-M)	140	65	8	20	30	1	15
	200 / 250						
Standard Inverter (PUHZ-P)	140	50	8	20	30	1	15
	200 / 250	70	8	28	30	1	15

## Quadruple type

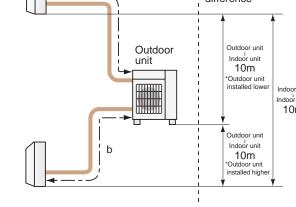
		Ma	ximum Piping Length	(m)	Maximum Heigh	Maximum Number of Bends	
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C+D+E	Pipe length difference from distribution pipe  B-C	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number
Power Inverter (PUZ-ZM, PUHZ-ZRP)	200 / 250	100	8	30	30	1	15
Standard Inverter (PUZ-M, PUHZ-P)	200 / 250	70	8	22	30	1	15



## **MXZ** SERIES

MXZ-2D33VA, MXZ-2F33VF3 Maximum Piping Length		Indoor a	Maximum height difference
Outdoor unit - Indoor unit (a,b)	15m		
Total length (a+b)	20m		
		Outdoor	Outdoor unit
Maximum Number of Bend	S	unit	10m
Outdoor unit - Indoor unit (a,b)	15		*Outdoor unit installed lower Indoor un
Total number (a+b)	20		Indoor ur 10m
When connecting MFZ-KJ Series indoor unit, additional refrigerant is required. For deta Electric.	ails, please contact Mitsubishi		Outdoor unit

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



#### MXZ-2D42VA2, MXZ-2F42VF3

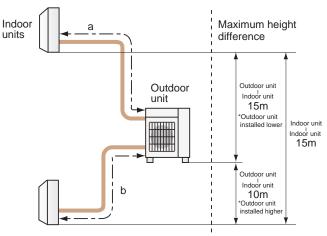
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	20m
Total length (a+b)	30m

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

#### MXZ-2D53VA(H)2, MXZ-2E53VAHZ, MXZ-2F53VF(H)3

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

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



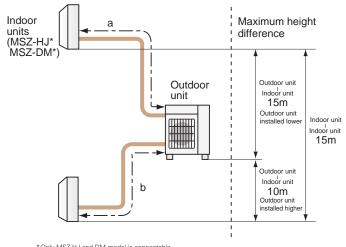
\* When connecting MFZ-KJ Series indoor unit to MXZ-2D42VA2 or MXZ-2D53VA(H)2, additional refrigerant is required. For details, please contact Mitsubishi Electric.

## **MXZ** SERIES

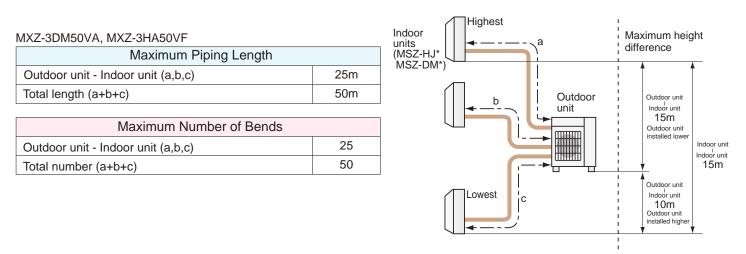
#### MXZ-2DM40VA, MXZ-2HA40VF, MXZ-2HA50VF

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

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



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



\* Only MSZ-HJ and DM model is connectable

#### MXZ-4E72VA, MXZ-4F72VF3

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

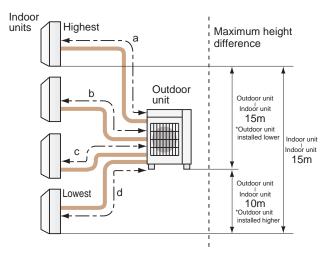
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	60

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

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

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

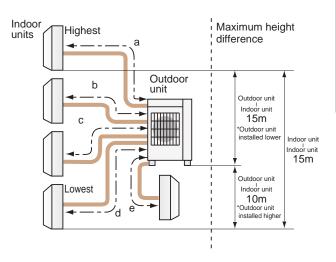
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	70



#### MXZ-5E102VA, MXZ-5F102VA

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

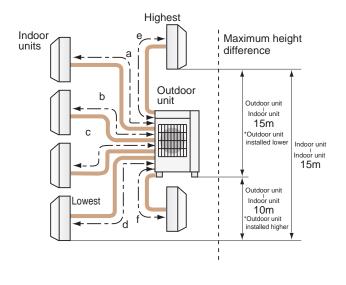
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d,e)	25
Total number (a+b+c+d+e)	80



#### MXZ-6D122VA2, MXZ-6F122VF

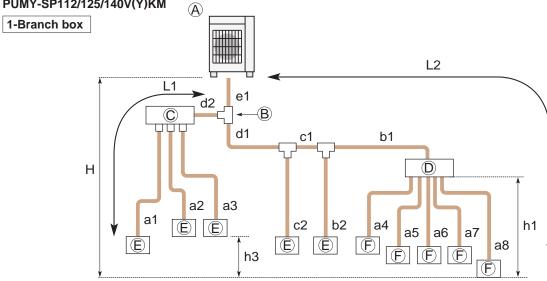
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d,e,f)	25m
Total length (a+b+c+d+e+f)	80m

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



## **PUMY** SERIES

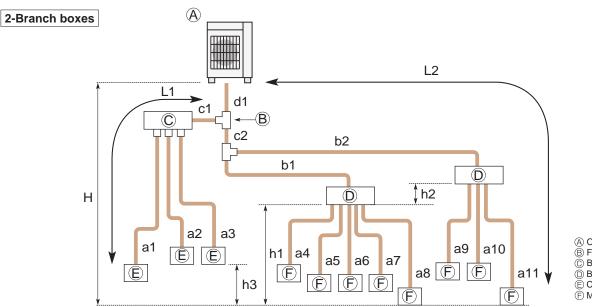
#### PUMY-SP112/125/140V(Y)KM



 Outdoor Unit
 B First joint (CMY, MSDD)
 C Branch header (CMY)
 D Branch box (PAC-MK•BC(B)) © CITY MULTI Indoor unit © M/S/P series 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	In indeer/outdoor postion (11)*4	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)						
difference (One-way)	In indoor/outdoor section (H)*1	$H \leq 30$ 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		e1 + d2 + a1 ,  e1 + d2 + a2 ,  e1 + d2 + a3 ,  e1 + d1 + c2 ,  e1 + d1 + c1 + b2 ,  e1 + d1 + c1 + b1 + a4 ,  e1 + d1 + c1 + b1 + a5 ,  e1 + d1 + c1 + b1 + a6 ,  e1 + d1 + c1 + b1 + a7 ,  e1 + d1 + c1 + b1 + a8  $\leq$ 15						

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

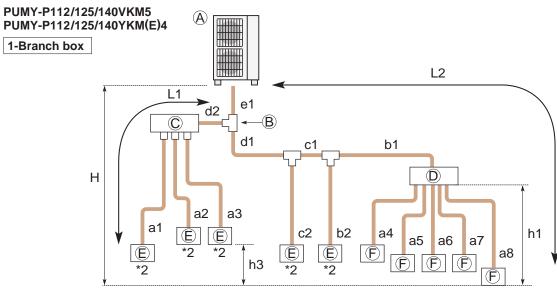


A Outdoor Unit B First joint (CMY, MSDD)
 B Fanch header (CMY)
 Branch box (PAC-MK•BC(B))
 E CITY MULTI Indoor unit

E M/S/P series Indoor unit

Permissible length	Total piping length	d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 120 m						
(One-way)	Farthest piping length (L1)	d1 + c1 + a1 ≦ 70 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 ≦ 50 m						
	Farthest piping length after branch box	a11 ≦ 25 m						
	Farthest branch box from outdoor unit	d1 + c2 + b2 ≦ 55 m						
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 95 m						
Permissible height	In indeer/outdoor contion (1)*4	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)						
difference	In indoor/outdoor section (H)*1	H ≦ 30 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		$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$						

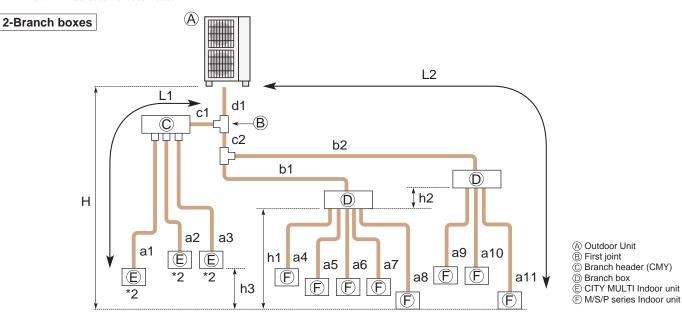
\*1: Branch box should be placed within the level between the outdoor unit and indoor units.



(A) Outdoor Unit B First joint © Branch header (CMY) D Branch box © CITY MULTI Indoor unit © M/S/P series Indoor unit

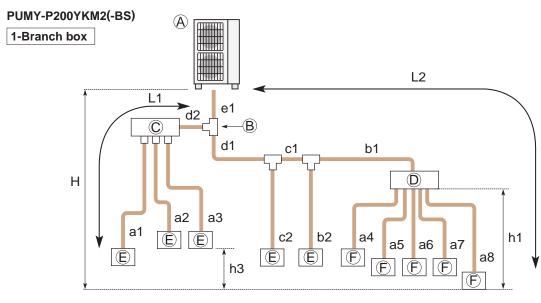
Permissible length	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 ≦ 300 m							
(One-way)	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2 ≦ 85 m							
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8 ≦ 80 m							
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1 ≦ 55 m							
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2 ≦ 30 m							
	Farthest piping length after branch box	a8≦25 m							
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 95 m							
Permissible height	la independent de constitue (LD*4	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)							
difference (One-way)	In indoor/outdoor section (H)*1	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		$\begin{array}{l}  e1+d2+a1 ,  e1+d2+a2 ,  e1+d2+a3 ,  e1+d1+c2 ,  e1+d1+c1+b2 , \\  e1+d1+c1+b1+a4 ,  e1+d1+c1+b1+a5 ,  e1+d1+c1+b1+a6 , \\  e1+d1+c1+b1+a7 ,  e1+d1+c1+b1+a8  \leq 15 \end{array}$							

\*1: Branch box should be placed within the level between the outdoor unit and indoor units. \*2: PKFY and PFFY Series cannot be connected.



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

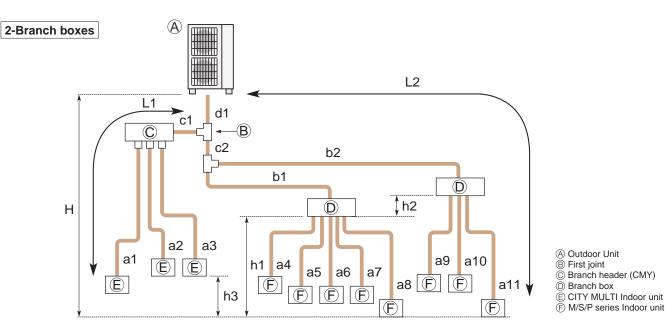
\*1: Branch box should be placed within the level between the outdoor unit and indoor units. \*2: PKFY and PFFY Series cannot be connected.



A Outdoor Unit
First joint
Branch header (CMY)
Branch box
CITY MULTI Indoor unit
M/S/P series Indoor unit

Permissible length	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 ≦ 150 m						
(One-way)	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	In indeer/outdeer contine (LI)*4	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)						
difference (One-way)	In indoor/outdoor section (H)*1	H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)						
	In branch box/indoor unit section (h1)	h1≦15 m						
	In each indoor unit (h3)	h3 ≦ 12 m						
Number of bends		e1 + d2 + a1 ,  e1 + d2 + a2 ,  e1 + d2 + a3 ,  e1 + d1 + c2 ,  e1 + d1 + c1 + b2 ,						
		e1 + d1 + c1 + b1 + a4 ,  e1 + d1 + c1 + b1 + a5 ,  e1 + d1 + c1 + b1 + a6 ,						
		e1 + d1 + c1 + b1 + a7 ,  e1 + d1 + c1 + b1 + a8  ≦ 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 ≦ 150 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 ≦ 95 m						
Permissible height	la independent de se se stiene (LD*A	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)						
difference	In indoor/outdoor section (H)*1	H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)						
(One-way)	In branch box/indoor unit section (h1)	h1 + h2 ≦ 15 m						
	In each branch unit (h2)	h2 ≦ 15 m						
	In each indoor unit (h3)	h3 ≦ 12 m						
Number of bends		d1 + c1 + a1 ,  d1 + c1 + a2 ,  d1 + c1 + a3 ,  d1 + c2 + b1 + a4 ,  d1 + c2 + b1 + a5 ,  d1 + c2 + b1 + a6 ,  d1 + c2 + b1 + a7 ,  d1 + c2 + b1 + a8 ,  d1 + c2 + b2 + a9 ,  d1 + c2 + b2 + a11  ≤ 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
neating	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

Μ	M : M Series S : S Series
c	"S"= Wall-mounted , "F"= Compact floor-standing , "E"= Compact ceiling-concealed ,
S	"L"= 4- or 1-way cassette , "U"= Outdoor unit
Z	"Z"= Inverter heat pump , "H"= Fixed-speed heat pump , "blank"= Cooling only of Non-inverter , "Y"= Cooling only of inverter
_	
F	Series
Н	Generation
25	Rated cooling capacity (kW base)
V	230V / Single phase / 50Hz
	"A"= R410A with new A control , "B"= R410A with conventional control ,
Е	"E"= R410A with new A control & ErP correspondance , "G"=R32 with new A control & ErP correspondance ,
	"F"= R32 with new A control
	"HZ"= Hyper Heating model , "H"= Anti-freeze heater equipped model ,
ΗZ	"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

 H
 Generation

 A
 "A"= A control

## 3) MXZ Series

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

## Refrigerant Amount

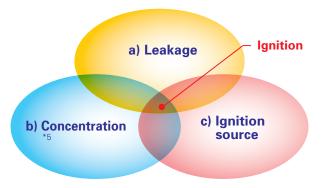
## M/S/P/Multi

	NA-1-1 NL	Refrig	erant	Pre- qu	charged Jantity		added antity		N.4. 1.1.5.1	Refrig	erant	Pre- qu	charged Jantity	Max. added quantity	
	Model Name		GWP	Weight [kg]	CO <sub>2</sub> equivalent [t]	Weight [kg]	CO2 equivalent [t]		Model Name		GWP	Weight [kg]	CO <sub>2</sub> equivalent [t]	Weight [kg]	CO <sub>2</sub> equivalent [t]
	MUZ-LN25VG	R32	675	1.00	0.68	0.26	0.18		SUZ-M25VA	R32	675	0.65	0.44	0.91	0.61
	MUZ-LN25VG2	R32	675	0.8	0.54	0.20	0.135		SUZ-M35VA	R33	675	0.90	0.61	1.16	0.78
	MUZ-LN35VG	R32	675	1.00	0.68	0.26	0.18		SUZ-M50VA	R34	675	1.20	0.81	1.66	1.12
	MUZ-LN35VG2 MUZ-LN50VG	R32 R32	675 675	0.85 1.25	0.57	0.20	0.14		SUZ-M60VA SUZ-M71VA	R35 R36	675 675	1.25 1.45	0.84	1.71 2.37	1.15 1.60
	MUZ-LN50VG2	R32	675	1.25	0.85	0.10	0.07	S-Series	SUZ-KA25VA6	R410A	2088	0.80	1.68	0.39	0.82
	MUZ-LN60VG	R32	675	1.45	0.98	0.46	0.32		SUZ-KA35VA6	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-LN25VGHZ	R32	675	1.00	0.68	0.26	0.18		SUZ-KA50VA6	R410A	2088	1.60	3.35	0.46	0.97
	MUZ-LN35VGHZ	R32	675	1.00	0.68	0.26	0.18		SUZ-KA60VA6	R410A	2088	1.60	3.35	0.46	0.97
	MUZ-LN50VGHZ MUZ-FT25VGHZ	R32 R32	675 675	1.45 0.85	0.98	0.46	0.32		SUZ-KA71VA6 PUZ-ZM35VKA	R410A R32	2088 675	1.80 2.0	3.76 1.35	1.265 0.3	2.65 0.20
	MUZ-FT35VGHZ	R32	675	0.85	0.65	0.25	0.31		PUZ-ZM50VKA	R32	675	2.0	1.35	0.3	0.20
	MUZ-FT50VGHZ	R32	675	0.95	0.65	0.45	0.31		PUZ-ZM60VHA	R32	675	2.8	1.89	0.8	0.54
	MUZ-AP15VG	R32	675	0.49	0.34	0.26	0.18		PUZ-ZM71VHA	R32	675	2.8	1.89	0.8	0.54
	MUZ-AP20VG	R32	675	0.55	0.37	0.26	0.18		PUZ-ZM100VKA	R32	675	4.0	2.70	2.8	1.89
	MUZ-AP25VG	R32	675	0.55	0.37	0.26	0.18		PUZ-ZM100YKA	R32	675	4.0	2.70	2.8	1.89
	MUZ-AP35VG MUZ-AP42VG	R32 R32	675 675	0.55	0.37	0.26	0.18		PUZ-ZM125VKA PUZ-ZM125YKA	R32 R32	675 675	4.0 4.0	2.70	2.8	1.89 1.89
	MUZ-AP50VG	R32	675	1.00	0.47	0.26	0.18		PUZ-ZM140VKA	R32	675	4.0	2.70	2.8	1.89
	MUZ-AP60VG	R32	675	1.05	0.71	0.30	0.20		PUZ-ZM140YKA	R32	675	4.0	2.70	2.8	1.89
	MUZ-AP71VG	R32	675	1.50	1.02	0.30	0.20		PUZ-ZM200YKA	R32	675	6.3	4.25	9.2	6.21
	MUZ-AP25VGH	R32	675	0.55	0.37	0.26	0.18		PUZ-ZM250YKA	R32	675	6.8	4.59	9.2	6.21
	MUZ-AP35VGH	R32	675	0.55	0.37	0.26	0.18		PUHZ-ZRP35VKA2	R410A	2088	2.2	4.60	0.4	0.84
	MUZ-AP42VGH MUZ-AP50VGH	R32 R32	675 675	0.70	0.47	0.26	0.18		PUHZ-ZRP50VKA2 PUHZ-ZRP60VHA2	R410A R410A	2088 2088	2.4 3.5	5.02 7.31	0.4	0.84 2.51
	MUZ-EF25VG(H)	R32	675	0.62	0.42	0.26	0.18		PUHZ-ZRP71VHA2	R410A	2088	3.5	7.31	1.2	2.51
	MUZ-EF35VG(H)	R32	675	0.74	0.50	0.26	0.18		PUHZ-ZRP100VKA3	R410A	2088	5.0	10.44	2.4	5.02
- - - - - - - - - - - - - - - - - - -	MUZ-EF42VG	R32	675	0.74	0.50	0.26	0.18		PUHZ-ZRP100YKA3	R410A	2088	5.0	10.44	2.4	5.02
	MUZ-EF50VG	R32	675	1.05	0.71	0.46	0.32		PUHZ-ZRP125VKA3	R410A	2088	5.0	10.44	2.4	5.02
	MUZ-BT20VG	R32	675	0.45	0.30	0.26	0.18		PUHZ-ZRP125YKA3	R410A	2088	5.0	10.44	2.4	5.02
	MUZ-BT25VG MUZ-BT35VG	R32 R32	675 675	0.50	0.34	0.26	0.18		PUHZ-ZRP140VKA3 PUHZ-ZRP140YKA3	R410A R410A	2088 2088	5.0 5.0	10.44	2.4	5.02 5.02
	MUZ-BT50VG	R32	675	0.50	0.34	0.26	0.18	P-Series	PUHZ-ZRP1401KA3	R410A	2088	7.1	10.44	3.6	7.52
	MUZ-HR25VF	R32	675	0.40	0.47	0.26	0.18	1 001100	PUHZ-ZRP250YKA3	R410A	2088	7.7	16.08	4.8	10.03
	MUZ-HR35VF	R32	675	0.45	0.30	0.26	0.18		PUZ-M100VKA	R32	675	3.1	2.09	4.1	2.77
	MUZ-HR42VF	R32	675	0.70	0.47	0.26	0.18		PUZ-M100YKA	R32	675	3.1	2.09	4.1	2.77
	MUZ-HR50VF	R32	675	0.80	0.54	0.26	0.18		PUZ-M125VKA	R32	675	3.6	2.43	5.0	3.38
	MUZ-HR60VF	R32	675	1.05	0.71	0.46	0.32		PUZ-M125YKA	R32	675	3.6	2.43	5.0	3.38
	MUZ-HR71VF MUY-TP35VF	R32 R410A	675	1.05	0.71	0.46	0.32		PUZ-M140VKA	R32	675	3.6	2.43	5.0	3.38
	MUY-TP35VF MUY-TP50VF	R410A	2088 2088	0.85 0.85	0.57	0.13	0.09		PUZ-M140YKA PUZ-M200YKA	R32 R32	675 675	3.6 5.6	2.43 3.78	5.0 7.2	3.38 4.86
	MUZ-FH25VE	R410A	2088	1.15	2.41	0.39	0.82		PUZ-M250YKA	R32	675	6.8	4.59	9.2	6.21
	MUZ-FH35VE	R410A	2088	1.15	2.41	0.39	0.82		PUHZ-P100VKA	R410A	2088	3.3	6.89	1.2	2.51
	MUZ-FH50VE	R410A	2088	1.55	3.24	0.46	0.97		PUHZ-P100YKA	R410A	2088	3.3	6.89	1.2	2.51
	MUZ-FH25VEHZ	R410A	2088	1.15	2.41	0.39	0.82		PUHZ-P125VKA	R410A	2088	3.8	7.93	1.2	2.51
	MUZ-FH35VEHZ MUZ-FH50VEHZ	R410A R410A	2088 2088	1.15 1.55	2.41 3.24	0.39	0.82		PUHZ-P125YKA PUHZ-P140VKA	R410A R410A	2088 2088	3.8 3.8	7.93 7.93	1.2	2.51 2.51
	MUZ-SF25VE(H)	R410A	2088	0.70	1.47	0.39	0.82		PUHZ-P140VKA	R410A	2088	3.8	7.93	1.2	2.51
M-Series	MUZ-SF35VE(H)	R410A	2088	0.80	1.68	0.39	0.82		PUHZ-P200YKA3	R410A	2088	6.5	13.58	3.6	7.52
	MUZ-SF42VE(H)	R410A	2088	1.15	2.41	0.39	0.82		PUHZ-P250YKA3	R410A	2088	7.7	16.08	4.8	10.03
	MUZ-SF50VE(H)	R410A	2088	1.55	3.24	0.46	0.97		PUHZ-SHW112VHA	R410A	2088	5.5	11.49	2.4	5.02
	MUZ-GF60VE	R410A	2088	1.55 1.90	3.24	0.40	0.84		PUHZ-SHW112YHA	R410A	2088 2088	5.5	11.49	2.4	5.02 5.02
	MUZ-GF71VE MUZ-WN25VA	R410A R410A	2088 2088	0.70	3.97 1.47	1.10 0.26	2.30		PUHZ-SHW140VHA PUHZ-SHW140YHA	R410A R410A	2088	5.5 5.5	11.49 11.49	2.4	5.02
	MUZ-WN35VA	R410A	2088	0.70	1.47	0.26	0.55		PUHZ-FRP71VHA	R410A	2088	3.8	7.94	1.8	3.76
	MUZ-DM25VA	R410A	2088	0.70	1.47	0.26	0.55		PUMY-SP112VKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	MUZ-DM35VA	R410A	2088	0.72	1.51	0.26	0.55		PUMY-SP112YKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	MUZ-HJ25VA	R410A	2088	0.70	1.47	0.26	0.55		PUMY-SP125VKM(-BS)	R410A		3.5	7.31	9.0	18.79
	MUZ-HJ35VA MUZ-HJ50VA	R410A R410A	2088 2088	0.72	1.51 2.41	0.26	0.55		PUMY-SP125YKM(-BS) PUMY-SP140VKM(-BS)	R410A R410A	2088 2088	3.5 3.5	7.31	9.0 9.0	18.79 18.79
	MUZ-HJ60VA	R410A	2088	1.15	3.76	0.20	0.97		PUMY-SP140YKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	MUZ-HJ71VA	R410A	2088	1.80	3.76	0.46	0.97	PUMY	PUMY-P112VKM5(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	MUFZ-KJ25VE	R410A	2088	1,1	2.30	0.39	0.82		PUMY-P125VKM5(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	MUFZ-KJ35VE	R410A	2088	1,1	2.30	0.39	0.82		PUMY-P140VKM5(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	MUFZ-KJ50VE	R410A	2088	1.50	3.14	0.46	0.97		PUMY-P112YKM(E)4(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	MUFZ-KJ25VEHZ MUFZ-KJ35VEHZ	R410A R410A	2088 2088	1,1 1,1	2.30 2.30	0.39	0.82		PUMY-P125YKM(E)4(-BS) PUMY-P140YKM(E)4(-BS)	R410A R410A	2088 2088	4.8 4.8	10.02 10.02	13.8 13.8	28.81 28.81
	MUFZ-KJ50VEHZ	R410A	2088	1.50	3.14	0.35	0.97		PUMY-P200YKM2 (-BS)	R410A	-	7.3	15.24	13.1	27.35
	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 2088	2.7	5.64 5.64	0.4	0.84								
	MXZ-4E83VA	R410A	2088	2.7	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-2F33VF3	R32	675	0.8	0.54	0.8	0.54								
	MXZ-2F42VF3	R32	675	1.0 1.0	0.675	1.0	0.675								
	MXZ-2F53VF(H)3 MXZ-3F54VF3	R32 R32	675 675	2.4	0.675	1.0 2.4	0.675								
	MXZ-3F68VF3	R32	675	2.4	1.62	2.4	1.62								
	MXZ-4F72VF3	R32	675	2.4	1.62	2.4	1.62								
	MXZ-4F80VF3	R32	675	2.4	1.62	2.4	1.62								
	MXZ-4F83VF	R32	675	2.4	1.62	2.4	1.62								
	MXZ-5F102VF	R32	675	2.4	1.62	2.4	1.62								
	MXZ-6F122VF MXZ-2F53VFHZ	R32 R32	675 675	2.4 2.4	1.62 1.62	2.4	1.62								
	MXZ-4F83VFHZ	R32	675	2.4	1.62	2.4	1.62								
		-				0.2	0.42								
	MXZ-2E53VAHZ	R410A	2088	2.0	4.18	0.2	0.42								
	MXZ-2E53VAHZ MXZ-4E83VAHZ	R410A R410A	2088	2.0 3.9	8.15	0.2	1.88								
	MXZ-4E83VAHZ MXZ-2DM40VA	R410A R410A	2088 2088	3.9 0.95	8.15 1.99	0.9 0.2	1.88 0.42								
	MXZ-4E83VAHZ MXZ-2DM40VA MXZ-3DM50VA	R410A R410A R410A	2088 2088 2088	3.9 0.95 2.7	8.15 1.99 5.64	0.9 0.2 0.2	1.88 0.42 0.42								
	MXZ-4E83VAHZ MXZ-2DM40VA	R410A R410A	2088 2088	3.9 0.95	8.15 1.99	0.9 0.2	1.88 0.42								

# **R32 REFRIGERANT**

## **R32 REFRIGERANT PROPERTIES**

Under the conditions shown below, there is a possibility that R32 could ignite.



	R32	R410A	R22
Chemical formula	CH <sub>2</sub> F <sub>2</sub>	CH <sub>2</sub> F <sub>2</sub> /CHF <sub>2</sub> CF <sub>3</sub>	CHCIF <sub>2</sub>
Composition (blend ratio wt. %)	Single composition	R32/R125 (50/50 wt %)	Single composition
Ozone depletion potential (ODP)	0	0	0.055
Global warming potential (GWP) *1	675	2088	1810
LFL(vol.%) *2	13.3	-	-
UFL(vol.%) *3	29.3	-	-
Flammability *4	Lower flammability (2L)	No flame propagation (1)	No flame propagation (1)

\*1 IPCC 4th assessment report.

\*2 LFL : Lower flammable limit

\*3 UFL : Upper flammable limit

\*4 ISO 817:2014

\*5 R32 consistency is higher than LFL\*1 and lower than UFL\*2.

Although R32 is classified as low flammability, the possibility of igniting can be eliminated by ensuring the following three points.

#### a) Do not leak refrigerant.

<Installation> ·Vacuum drying should be done. Air purging is prohibited.

·Follow "4. Installation Points of Refrigerant Piping Work".

<Repair/Relocation/Removal> ·Pump down or recovering refrigerant should be done.

#### b) Prevent concentration.

•Ventilate during installation and servicing, such as open the door or window and use a fan. •Follow "2. Installation Restrictions".

#### c) Keep ignition source away from the unit.

Do not braze pipe and unit which contain refrigerant. Before brazing, refrigerant should be recovered.
Do not install unit while the electricity is turned on. Turn off electricity at the fuse box and check the wiring using a tester.
Do not smoke when working or during transportation of the product.

## 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\*.

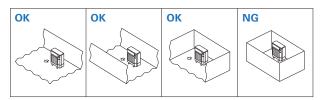
#### \* Refer to table and drawings below.

<m se<="" th=""><th colspan="2">ries&gt;</th><th><p ser<="" th=""><th>ies&gt;</th><th colspan="2"><mxz series=""></mxz></th><th><only< th=""><th>for MFZ-K</th></only<></th></p></th></m>	ries>		<p ser<="" th=""><th>ies&gt;</th><th colspan="2"><mxz series=""></mxz></th><th><only< th=""><th>for MFZ-K</th></only<></th></p>	ies>	<mxz series=""></mxz>		<only< th=""><th>for MFZ-K</th></only<>	for MFZ-K
M[kg]	Amin[m <sup>2</sup> ]		M[kg]	Amin[m <sup>2</sup> ]	M[kg]	Amin[m <sup>2</sup> ]	M[kg]	Amin[m <sup>2</sup> ]
0.7	1.7		1.0	4	1.0	3	1.00	
0.8	2.0		1.5	6	1.5	4.5	1.50	No requirements
0.9	2.2		2.0	8	2.0	6	1.80	
1.0	2.5		2.5	10	2.5	7.5	1.84	3.63
1.1	2.7		3.0	12	3.0	9	1.90	3.75
1.2	3.0		3.5	14	3.5	12	2.00	3.95
1.3	3.2		4.0	16	4.0	15.5	2.10	4.15
1.4	3.4		4.5	20	4.5	20	2.20	4.34
1.5	3.7		5.0	24	5.0	24	2.30	4.54
1.6	3.9		5.5	29	5.5	29	2.40	4.74
1.7	4.2		6.0	35	6.0	35		
1.8	4.4		6.5	41	6.5	41		
1.9	4.6		7.0	47	7.0	47		
2.0	4.9		7.5	54	7.5	54		

Wall-mounted	Ceiling-suspended	
h0≧1.8[m]	h0≧2.2[m]	
Cassette	Ceiling-concealed	Floor-standing
h0≧2.2[m]	h0≧2.2[m]	
		h0: max 0.15[m] 1

#### 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.

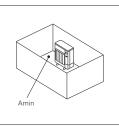


If you unavoidably install a unit in a space where all four sides are blocked or there are depressions, confirm that one of these situations (A, B or C) is satisfied.

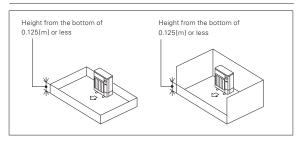
#### A Secure sufficient installation space (minimum installation area Amin).

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



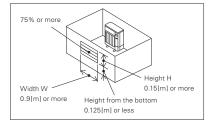
#### **B** Install in a space with a depression height of $\leq 0.125$ [m].



#### C Create an appropriate open ventilation area.

Make sure that the width of the open area is 0.9[m] or more and the height of the open area is 0.15[m] or more.

However, the height from the bottom of the installation space to the bottom edge of the open area should be 0.125[m] or less. More than 75% of the ventilation area should be open to allow air circulation.



Note These countermeasures (A, B or C) are for keeping safety not for specification guarantee.

# IOSSNAY SYSTEM







## **LOSSNAY LINEUP**

Applica	ation	Model	Airflow	50 CMH	100 CMH	150 CMH	250 CMH	350 CMH	500 CMH	650 CMH	800 CMH	1000 CMH	1500 CMH	2000 CMH	2500 CMH
Centralized Ventilation Ceiling Concealed		LGH-RVX Series					•			•		•	•	•	
	pe	LGH-RVXT Series	2										•	•	
	onceale	GUF Series							•						
	Ceiling Co	GUG Series (Dx-coil unit for Lossnay LGH-RVX/RVXT Series)							•	•		•	•	•	•
Centr		VL-220CZGV-E					•								
	Vertical Type	VL-CZPVU Series					•	•							
alized ation	ounted	VL-100(E)U5-E			•										
Decentralized Ventilation Wall Mounted Type	VL-50(E)S2-E VL-50SR2-E														

#### LGH-RVX Series

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

### LGH-RVXT Series

Thin, large airflow models of the LGH series that deliver high performance and functions.

#### **GUF** Series

Heat recovery units with a heating and cooling system that uses the City Multi outdoor unit as a heat source.

#### **Dx-coil unit (GUG Series)**

Temperature control equipment that works with Lossnay units and Mr. Slim outdoor units.

## **VL-CZPVU Series**

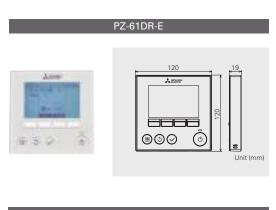
Vertical type for residential use centralized ventilation with sensible heat exchange.

## VL-220CZGV-E

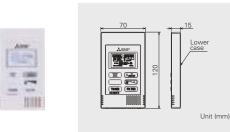
Centralized ventilation with sensible heat exchange, for residential use.

## VL-100(E)U5-E, VL-50(E)S2-E, VL-50SR2-E

Wall-mounted models. Particularly suitable for houses and small offices.



PZ-43SMF-E



Function	PZ-61	IDR-E	PZ-43	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 part P-133DUE-E)	Energy recovery / Bypass / Auto	Heat recovery / Bypass / Auto (available with optional part P-133DUE-E)
Night-purge setting (time and fan speed)	Yes	No	No	No
Function setting from RC	Yes	Yes	No	No
Bypass temp. free setting	Yes	Yes (available with optional part 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 part 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	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

## REMOTE CONTROLLER

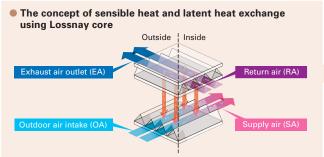
# LOSSNAY

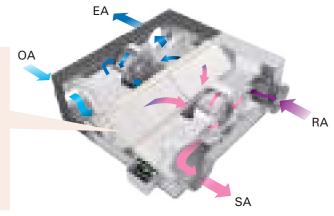
Lossnay ventilation systems are renowned industry-wide for their efficiency. They offer environment-friendly energy recovery and humidity control, and enable air conditioning systems to simultaneously provide optimum room comfort and energy savings.



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

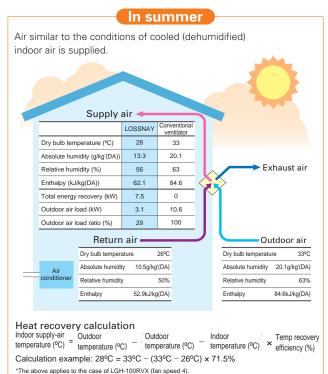
Lossnay is a total heat exchange ventilation system that uses paper characteristics to perform temperature (sensible heat) and humidity (latent heat) exchange.

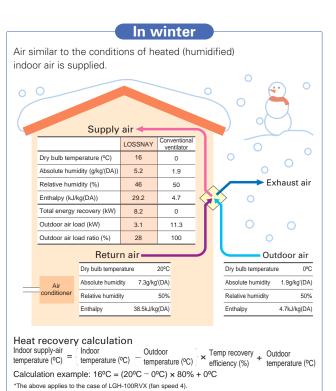




## What Can Be Improved by Introducing Lossnay?

#### Ventilation with maximized comfort



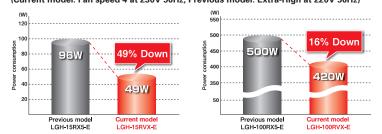


## Commercial Use Lossnay

## LGH-RVX Series (Standard model)

## Power consumption reduced further with the introduction of a DC motor

Low power consumption is realised with the introduction of a high efficiency brushless DC motor. Compared to models with an AC motor, power consumption is reduced. Comparison between current and previous power consumption (Current model: Fan speed 4 at 230V 50Hz, Previous model: Extra-High at 220V 50Hz)



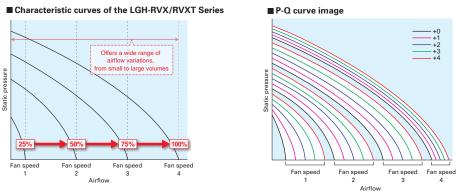
#### Improved airflow range

#### Wide airflow range

Each fan speed has a range setting of 25, 50, 75 and 100%, allowing much finer airflow control. When used in combination with the CO<sub>2</sub> sensor or timer function, airflow can be controlled according to conditions that realize better performance and reduce power consumption.

#### Fan speed adjustment function

The default fan speed value can be adjusted slightly. Use the PZ-61DR-E remote controller to reset the speed. 1) Considering the total hours of Lossnay operation (filter clogging), fan power can be adjusted automatically after a given period of time. 2) After the unit is installed, fine adjustments can be made if the airflow is slightly lower than the desired airflow.



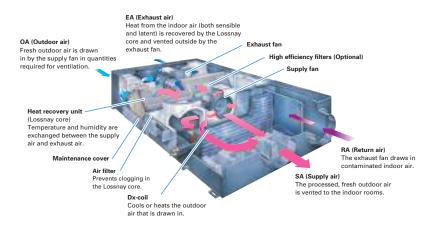
#### LGH-RVXT Series (Thin body type)

The LGH-RVXT series has a large airflow of 1500 - 2500 CMH but a thin body of approximately 500mm. Therefore, installing the unit in 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**

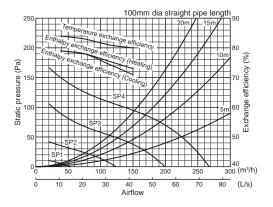
#### **RVX Series**

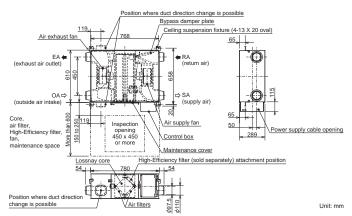
#### LGH-15RVX-E

Electrical power supply				2	20-240V/50H	Hz, 220V/60H	Ηz		
Ventilation mode			Heat recovery mode Bypass mode						
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		0.40	0.24	0.15	0.10	0.41	0.25	0.15	0.10
Input power (W)	Input power (W)			14	7	52	28	14	8
Airflow	(m <sup>3</sup> /h)	150	113	75	38	150	113	75	38
AITTOW	(L/s)	42	31	21	10	42	31	75 21 24	10
External static pressure (Pa)		95	54	24	6	95 54 24 6			6
Temperature exchange efficiency (	%)	80 81 83 84			-				
Enthalpy exchange efficiency (%)	Heating	73	75.5	78	79	-	-	-	-
Entralpy exchange entciency (%)	Cooling	71	74.5	78	79	-	-	-	-
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	28	24	19	17	29	24	19	18
Weight (kg)		20							
Specific energy consumption class					A	4			

#### **Characteristic Curves**

#### Dimensions

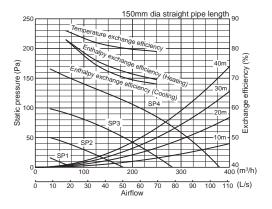




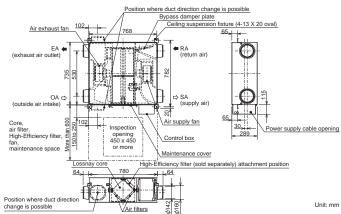
#### LGH-25RVX-E

Electrical power supply		220-240V/50Hz, 220V/60Hz								
Ventilation mode			Heat recov	very mode	20 2 10 1/001			s mode		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	
Running current (A)		0.48	0.28	0.16	0.10	0.48	0.29	0.16	0.11	
Input power (W)		62	33	16	7.5	63	35	17	9	
Airflow	(m <sup>3</sup> /h)	250	188	125	63	250	188	125	63	
	(L/s)	69	52	35	17	69	52	35	17	
External static pressure (Pa)		85	85 48 21 5 85 48 21 5			5				
Temperature exchange efficiency (	%)	79	80	82	86	-	-	-	-	
Enthalpy exchange efficiency (%)	Heating	69.5	72	76	83	-	-	-	-	
Entitalpy exchange enciency (%)	Cooling	68	70	74.5	83	-	-	-	-	
Noise (dB) (Measured at 1.5m under	ise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		22	20	17	27.5	23	20	17	
Weight (kg)		23								
Specific energy consumption class					/	Ą				

#### **Characteristic Curves**



#### **Dimensions**



For LGH-RVX and LGH-RVXT series

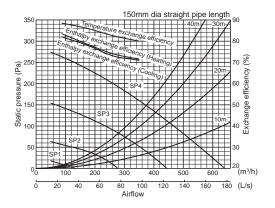
The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.
 \*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.
 \*For specifications at other frequencies, contact your dealer.

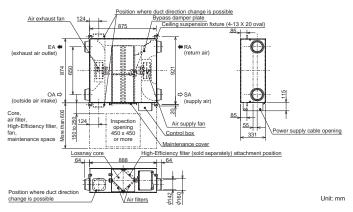
## LGH-35RVX-E

Electrical power supply				2	20-240V/50H	lz, 220√/60ŀ	Ηz		
Ventilation mode			Heat reco	very mode			Bypass	s mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP4 SP3 SP2 S		
Running current (A)		0.98	0.54	0.26	0.12	0.98 0.56 0.28 0.			0.13
Input power (W)		140	70	31	11	145 72 35			13
Airflow	(m <sup>3</sup> /h)	350	263	175	88	350	263	175	88
AITTOW	(L/s)	97	73	49	24	97	73	49	24
External static pressure (Pa)		160	90	40	10	160	90	40	10
Temperature exchange efficiency (	%)	80	82.5	86	88.5	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	71.5	74	78.5	83.5	-	-	-	-
Entraipy exchange efficiency (76)	Cooling	71	73	78	82	-	-	-	-
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	ber) 32 28 20 17 32.5 28 20			18				
Weight (kg)	Weight (kg)		30						

## **Characteristic Curves**

## Dimensions

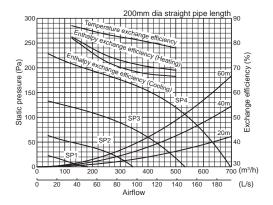




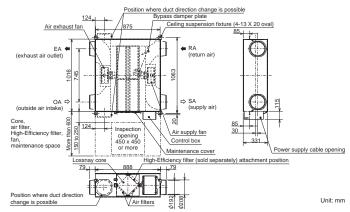
## LGH-50RVX-E

r									
Electrical power supply				2	20-240V/50H	lz, 220V/60H	Ηz		
Ventilation mode		Heat recovery mode			Bypass mode				
Fan speed		SP4	SP3	SP2	SP1	1 SP4 SP3 SP2			SP1
Running current (A)		1.15	0.59	0.26	0.13	1.15 0.59 0.27 0			0.13
Input power (W)		165	78	32	12	173	81	35	14
Airflow	(m <sup>3</sup> /h)	500	375	250	125	500	375	250	125
AITTOW	(L/s)	139	104	69	35	139	104	69	35
External static pressure (Pa)		120	68	30	8	120	68	30	8
Temperature exchange efficiency (	%)	78	81	83.5	87	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	69	71	75	82.5	-	-	-	-
Enthalpy exchange entitiency (78)	Cooling	66.5	68	72.5	82	-	-	-	-
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	amber) 34 28 19 18 35 29 20			20	18			
Weight (kg)		33							

### **Characteristic Curves**



## **Dimensions**



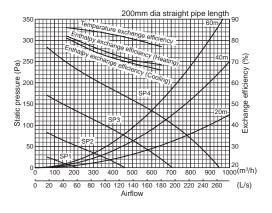
For LGH-RVX and LGH-RVXT series
 \*The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.
 \*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.
 \*For specifications at other frequencies, contact your dealer.

## **Commercial Use Lossnay Specifications**

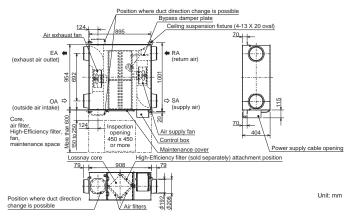
## LGH-65RVX-E

Electrical power supply				2	20-240V/50H	Hz, 220V/60H	Ηz		
Ventilation mode		Heat recovery mode				Bypass	s mode		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		1.65	0.90	0.39	0.15	1.72 0.86 0.38 0			0.16
Input power (W)		252	131	49	15	262 131 47			17
Airflow	(m <sup>3</sup> /h)	650	488	325	163	650	488	325	163
AITTIOW	(L/s)	181	135	90	45	181	135	90	45
External static pressure (Pa)		120	68	30	8	120	68	30	8
Temperature exchange efficiency (	%)	77	81	84	86	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	68.5	71	76	82	-	-	-	-
Entralpy exchange eniciency (%)	Cooling	66	69.5	74	81	-			-
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	34.5	29	22	18	35.5 29 22 18			18
Weight (kg)		38							

## **Characteristic Curves**



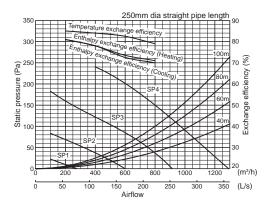
## Dimensions



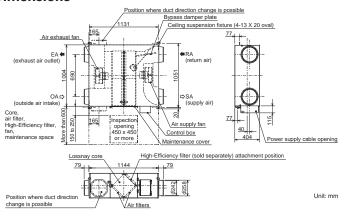
## LGH-80RVX-E

Electrical power supply				2	20-240V/50H	Hz, 220V/60H	Hz		
Ventilation mode			Heat recovery mode				Bypass	s mode	
Fan speed		SP4	SP3	SP2	SP1	SP4 SP3 SP2 S			SP1
Running current (A)		1.82	0.83	0.36	0.15	1.97 0.86 0.40 0.			0.15
Input power (W)		335	151	60	18	340 151 64			20
Airflow	(m <sup>3</sup> /h)	800	600	400	200	800	600	400	200
AITIOW	(L/s)	222	167	111	56	222	167	111	56
External static pressure (Pa)		150	85	38	10	150	85	38	10
Temperature exchange efficiency (	%)	79	82.5	84	85	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	71	73.5	78	81	-	-	-	-
Cooling		70	72.5	78	81	-	-	-	-
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	er) 34.5 30 23 18 36 30 23				18			
Weight (kg)		48							

## **Characteristic Curves**



## Dimensions



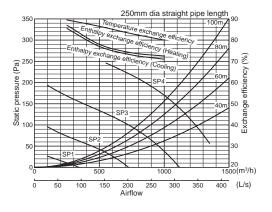
For LGH-RVX and LGH-RVXT series

\*The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz. \*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method. \*For specifications at other frequencies, contact your dealer.

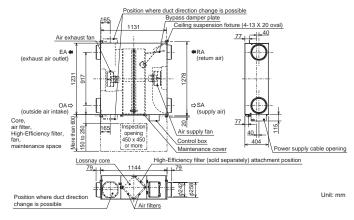
## LGH-100RVX-E

Electrical power supply				2	20-240V/50H	lz, 220V/60H	Ηz		
Ventilation mode			Heat recovery mode				Bypass	mode	
Fan speed		SP4	SP3	SP2	SP1	SP4 SP3 SP2 SF			SP1
Running current (A)		2.50	1.20	0.50	0.17	2.50 1.20 0.51 0.1			0.19
Input power (W)		420	200	75	21	420 200 75 2			23
Airflow	(m <sup>3</sup> /h)	1000	750	500	250	1000	750	500	250
AITIOW	(L/s)	278	208	139	69	278	208	139	69
External static pressure (Pa)		170	96	43	11	170	96	43	11
Temperature exchange efficiency (	%)	80	83	86.5	89.5	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	72.5	74	78	87	-	-	-	-
Entralpy exchange entclency (78)	Cooling	71	73	77	85.5		-	-	
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	er) 37 31 23 18 38 32 24				18			
Weight (kg)		54							

## **Characteristic Curves**



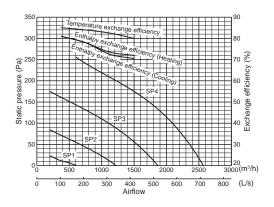
### **Dimensions**



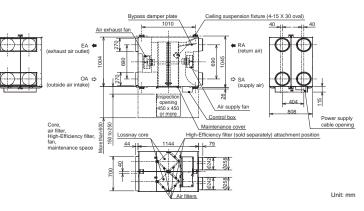
## LGH-150RVX-E

Electrical power supply				2	20-240V/50H	Hz, 220V/60H	Ηz		
Ventilation mode		Heat recovery mode				Bypass	s mode		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP4 SP3 SP2 S		
Running current (A)		3.71	1.75	0.70	0.29	3.85 1.78 0.78 0			0.30
Input power (W)		670	311	123	38	698 311 124			44
Airflow	(m <sup>3</sup> /h)	1500	1125	750	375	1500	1125	750	375
	(L/s)	417	313	208	104	417	313	208	104
External static pressure (Pa)		175	98	44	11	175	98	44	11
Temperature exchange efficiency (	%)	80	82.5	84	85	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	72	73.5	78	81	-	-	-	-
Enthalpy exchange entitiency (78)	Cooling	70.5	72.5	78	81	-	-	-	-
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	er) 39 32 24 18 40.5 33 26				18			
Weight (kg)		98							

## **Characteristic Curves**



## **Dimensions**



For LGH-RVX and LGH-RVXT series
 \*The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.
 \*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.
 \*For specifications at other frequencies, contact your dealer.

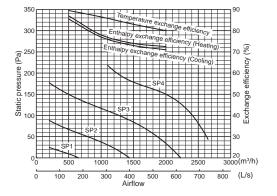
## **Commercial Use Lossnay Specifications**

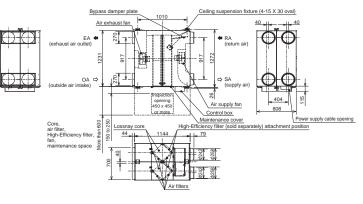
## LGH-200RVX-E

Electrical power supply				2	20-240V/50H	Hz, 220V/60H	Ηz		
Ventilation mode		Heat recovery mode				Bypass	s mode		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		4.88	2.20	0.88	0.33	4.54 2.06 0.87 0			0.35
Input power (W)		850	400	153	42	853 372 150 4			49
Airflow	(m <sup>3</sup> /h)	2000	1500	1000	500	2000	1500	1000	500
AITTOW	(L/s)	556	417	278	139	556	417	278	139
External static pressure (Pa)		150	84	38	10	150	84	38	10
Temperature exchange efficiency (	%)	80	83	86.5	89.5	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	72.5	74	78	87	-	-	-	-
Entralpy exchange enciency (70)	Cooling	71	73	77	85.5			-	
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	40	36	28	18	3 41 36 27 19			19
Weight (kg)		110							

## **Characteristic Curves**

## **Dimensions**





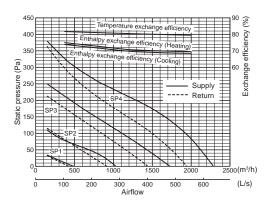
Unit: mm

## **RVXT Series**

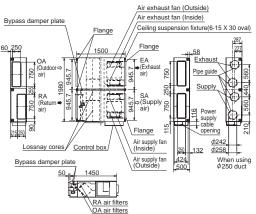
## LGH-150RVXT-E

Electrical power supply				2	20-240V/50H	Hz, 220V/60H	Ηz		
Ventilation mode		Heat recovery mode				Bypass	s mode		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		4.30	2.40	1.10	0.36	3.40	3.40 1.80 0.77 0.		
Input power (W)		792	421	176	48	625 334 134 3			37
Airflow	(m <sup>3</sup> /h)	1500	1125	750	375	1500	1125	750	375
Altriow	(L/s)	417	313	208	104	417	313	208	104
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11
External static pressure (r a)	Return	100	56	25	6	100	56	25	6
Temperature exchange efficiency (	%)	80	80.5	81	81.5	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	70	71	73	75	-	-	-	-
Entraipy exchange enciency (%)	Cooling	69	70	72	74	-	-	-	-
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	er) 39.5 35.5 29.5 22 39 33 26.5			20.5				
Weight (kg)	Weight (kg)		156						

## **Characteristic Curves**



## **Dimensions**



Unit: mm

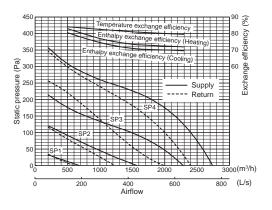
For LGH-RVX and LGH-RVXT series

\*The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz. \*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method. \*For specifications at other frequencies, contact your dealer.

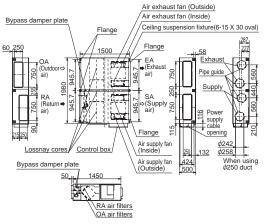
## LGH-200RVXT-E

Electrical power supply				2	20-240V/50H	Hz, 220V/60H	lz		
Ventilation mode			Heat recov	very mode			Bypass	s mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		5.40	2.70	1.10	0.39	5.00	5.00 2.20 0.85 0		
Input power (W)		1000	494	197	56	916 407 150 4			45
Airflow	(m <sup>3</sup> /h)	2000	1500	1000	500	2000	1500	1000	500
AITIOW	(L/s)	556	417	278	139	556	417	278	139
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11
External static pressure (Fa)	Return	100	56	25	6	100	56	25	6
Temperature exchange efficiency (	%)	80	81	82.5	84	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	72.5	73.5	77	83	-	-	-	-
Entralpy exchange enciency (%)	Cooling	70	71	74.5	80.5	-	-	-	-
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	ar) 39.5 35.5 28 22 40.5 34.5 27				20.5			
Weight (kg)		159							

## **Characteristic Curves**



### **Dimensions**

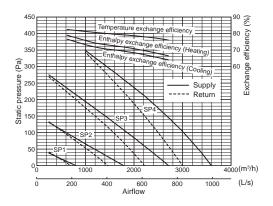


Unit: mm

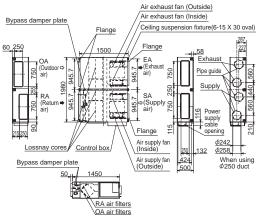
## LGH-250RVXT-E

Electrical power supply		220-240V/50Hz, 220V/60Hz							
					20-2407/501	1Z, ZZUV/60F			
Ventilation mode		Heat recovery mode				Bypass	mode		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		7.60	3.60	1.40	0.57	6.90	6.90 3.10 1.30 0.		
Input power (W)		1446	687	244	82	1298 587 212 6			69
Airflow	(m <sup>3</sup> /h)	2500	1875	1250	625	2500	1875	1250	625
AITIOW	(L/s)	694	521	347	174	694	521	347	174
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11
External static pressure (Fa)	Return	100	56	25	6	100	56	25	6
Temperature exchange efficiency (	%)	77	79	80.5	82.5	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	68	71.5	74	79	-	-	-	-
Enthalpy exchange enciency (78)	Cooling	65.5	69	71.5	76.5	-	-	-	-
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	43	39	32	24	44 38.5 31 22.			22.5
Weight (kg)			198						

## **Characteristic Curves**



## **Dimensions**



Unit: mm

## For LGH-RVX and LGH-RVXT series

For control and Control series
 For uning current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.
 \*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.
 \*For specifications at other frequencies, contact your dealer.

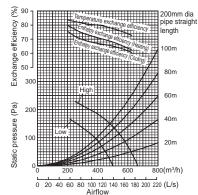
## **Commercial Use Lossnay Specifications**

## **GUF** Series

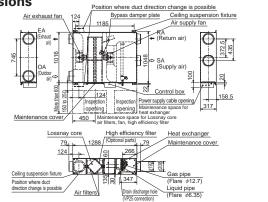
## GUF-50RD4

Electrical power supply			000.044	2) //= 011			
1 11 /				0V/50Hz			
Ventilation mode		Heat reco	very mode	Bypas	s mode		
Fan speed		High	Low	High	Low		
Running current (A)		1.15	1.15 0.70		0.70		
Input power (W)		235-265	150-165	235-265	150-165		
Airflow	(m <sup>3</sup> /h)	500	400	500	400		
AITIOW	(L/s)	139	111	139	111		
External static pressure (Pa)		140	90	140	90		
Temperature exchange efficiency (	77.5	80	-	-			
Enthalpy exchange efficiency (%)	Heating	68	71	-	-		
Enthalpy exchange enciency (76)	Cooling	65	67	-	-		
Cooling capacity (kW)			5.57	(1.94)	235-265         150-165           500         400           139         111           140         90           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -		
Heating capacity (kW)			6.21	(2.04)			
Capacity equivalent to the indoor u	nit		P	32			
Humidifying			-	-			
Humidifier Humidifying	capacity (kg/h)			-			
Water suppl	y pressure			-			
Noise (dB) (Measured at 1.5m u	nder the center of the unit in an anechoic chamber)	33.5-34.5	29.5-30.5	35-36	29.5-30.5		
Veight (kg)			. 4	8	140 90   )		

## **Characteristic Curves**



#### **Dimensions**

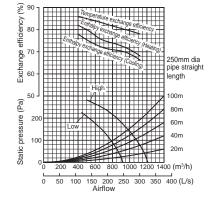


Unit: mm

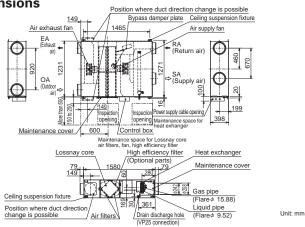
## **GUF-100RD4**

Electrical power supply	r			220-240	)V/50Hz			
Ventilation mode			Heat reco	very mode		mode		
Fan speed			High	Low	High	Low		
Running current (A)			2.20	1.73	2.25	1.77		
Input power (W)			480-505	370-395	490-515	385-410		
Airflow		(m <sup>3</sup> /h)	1000	800	1000	800		
AITIOW		(L/s)	278	222	278	222		
External static pressure	e (Pa)		140	90	140	90		
Temperature exchange	efficiency (%)		79.5	81.5	-	-		
Enthalpy exchange effic	aionay (9/ )	Heating	71	74	-	-		
Entralpy exchange entr	ciency (70)	Cooling	69	69 71		-		
Cooling capacity (kW)					(4.12)			
Heating capacity (kW)				12.56	(4.26)			
Capacity equivalent to t	the indoor unit			P6	33			
ŀ	Humidifying			-	-			
Humidifier H	Humidifying cap	acity (kg/h)		-	-			
1	Water supply pressure			-	-			
Noise (dB) (Measured	d at 1.5m unde	r the center of the unit in an anechoic chamber)	38-39	34-35	38-39 35-36			
Weight (kg)				8	2	•		

## **Characteristic Curves**



## **Dimensions**



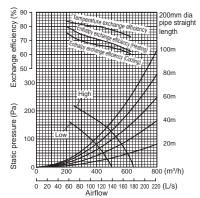
#### For GUF series

■ For GUP series Cooling/Leading capacity indicates the maximum value at operation under the following condition. Cooling: Indoor: 27°C DB/19°C WB Outdoor: 35°C DB/24°C WB Heating: Indoor: 20°C DB/13.8°C WB Outdoor: 7°C DB/6°C WB \*The figures in ( ) indicates heat 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.

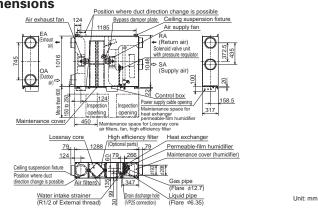
### GUF-50RDH4

Electrical power supply			220-240V/50Hz					
Ventilation mode			Heat recovery mode Bypass mode					
Fan speed			High	Low	High	Low		
Running current (A)			1.15	0.70	1.15	0.70		
Input power (W)			235-265	150-165	235-265	150-165		
Airflow		(m <sup>3</sup> /h)	500	400	500	400		
AITTIOW		(L/s)	139	111	139	111		
External static pressure (Pa)	3)		125	80	125	80		
Temperature exchange effic	ciency (%)		77.5	80	-	-		
Enthalpy exchange efficienc	01/0/1	Heating	68	71	-	-		
Entraipy exchange entcienc	Cy ( 70)	Cooling	65	67	-	-		
Cooling capacity (kW)			5.57 (1.94)					
Heating capacity (kW)			6.21 (2.04)					
Capacity equivalent to the in	indoor unit		P32					
Hum	nidifying			Permeable fi	lm humidifier			
Humidifier Hum	nidifying cap	acity (kg/h)		2.7 (he	eating)			
Wate	er supply pr	essure	Minimum	pressure : $2.0 \times 10^4$ Pa	Maximum pressure : 49.	$0 \times 10^4$ Pa		
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)			33.5-34.5	29.5-30.5	35-36	29.5-30.5		
Weight (kg)			51 (filled with water 55)					

## **Characteristic Curves**



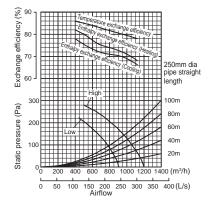
**Dimensions** 

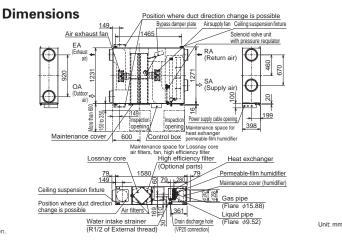


### GUF-100RDH4

Electrical power sup	noly		220-240V/50Hz					
	рру		Heat recovery mode Bypass mode					
Ventilation mode			Heat reco	very mode	Bypass	s mode		
Fan speed			High	Low	High	Low		
Running current (A)			2.20	1.76	2.25	1.77		
Input power (W)			480-505	385-400	490-515	385-410		
Airflow		(m³/h)	1000	800	1000	800		
AITIOW		(L/s)	278	222	278	222		
External static press	sure (Pa)		135	86	135	86		
Temperature exchar	nge efficiency (%)		79.5	81.5	-	-		
Enthalpy exchange	officionov (9/)	Heating	71	74	-	-		
Enthalpy exchange	enciency (%)	Cooling	69	71	-	-		
Cooling capacity (kV	V)		11.44 (4.12)					
Heating capacity (k)	<b>∧</b> )		12.56 (4.26)					
Capacity equivalent	to the indoor unit		P63					
	Humidifying			Permeable fi	lm humidifier			
Humidifier	Humidifying cap	bacity (kg/h)		5.4 (he	eating)			
	Water supply pr	essure	Minimum	pressure : $2.0 \times 10^4$ Pa	Maximum pressure : 49.	0 × 10 <sup>4</sup> Pa		
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)			38-39	34-35	38-39	35-36		
Weight (kg)			88 (filled with water 96)					

## **Characteristic Curves**





 Aurthow
 Water intake strainer

 \*Cooling/Heating capacity indicates the maximum value at operation under the following condition.
 (R1/2 of External threa

 Cooling: Indoor: 20°C DB/19°C WB
 Outdoor: 30°C DB/24°C WB
 (R1/2 of External threa

 Heating: Indoor: 20°C DB/13°C WB
 Outdoor: 7°C DB/6°C WB
 (R1/2 of External threa

 \*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.

## **Optimized System Integration**

### List of Remote Controller Settings and Functions

The remote controller provides a wide range of functions and features in addition to the main functions described below, such as sophisticated energy saving control and easy user interface.

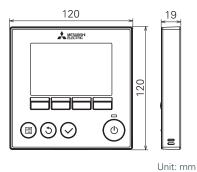
Function (Communicating mode)	PZ-61DR-E	PZ-43SMF-E
Fan speed selection	4 fan speeds	2 of 4 fan speeds
Ventilation mode selection	Energy recovery / Bypass / Auto	Energy recovery / Bypass / Auto
Night-purge setting (time and fan speed)	Yes	No
Function setting from RC	Yes	No
Bypass temp. free setting	Yes	No
Heater-On temp. free setting	Yes	No
Fan power up after installation	Yes	No
0 - 10VDC external input	Yes	Yes
ON/OFF timer	Yes	Yes
Auto-Off timer	Yes	No
Weekly timer	Yes	No
Operation restrictions (ON/OFF, Ventilation mode, fan speed)	Yes	No
Operation restrictions (Fan speed skip setting)	Yes	No
Screen contrast adjustment	Yes	No
Language selection	Yes (8 languages)*	No (English only)
Initializing	Yes	No
Filter cleaning sign	Yes	Yes
Lossnay core cleaning sign	Yes	No
Error indication	Yes	Yes
Error history	Yes	No
OA/RA/SA temp. display	Yes	No

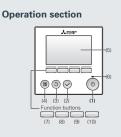
\*The 8 languages are English, German, French, Spanish, Italian, Portuguese, Russian and Swedish.

## **Controllers**

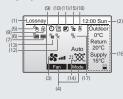
#### Lossnay Remote Controller (PZ-61DR-E)







#### **Display section**



- (1) Press to turn ON/OFF the Lossnay unit.
- (2) Press to save the setting.(3) Press to return to the previous screen.(4) Press to bring up the Main menu.

- (5) Operation settings will appear. When the backlight is off, pressing any button turns the backlight on and it will stay lit for a certain period of time depending on the screen.
- (6) This lamp lights up in green while the unit is in operation. It blinks while the remote controller is starting up or when there is an error.
   (7) Main menu: Press to move the cursor down.
- (8) Main display: Press to change the fan speed. Main menu: Press to move the cursor up.
- (9) Main menu. Press to move the curso up.
   (9) Main menu: Press to go to the previous page.
   (10) Main menu: Press to go to the next page.
- (1) Lossnay is always displayed.

- Lossnay is always displayed.
   Current time appears here.
   Fan speed setting appears here.
   Functions of the corresponding buttons appear here.
   Appears when the ON/OFF operation is centrally controlled.
   Appears when the filter reset function is centrally controlled.

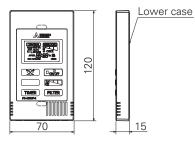
- (6) Appears when the filter reset function is centrally controlled.
  (7) Indicates when the filter and/or Lossnay core needs maintenance.
  (8) Appears when the buttons are locked and/or a fan speed is skipped.
  (9) Appears when the Unottons are locked and/or a fan speed is skipped.
  (10) Appears when the Weekly timer is enabled.
  (11) Appears when the night-purge function is available.
  (12) Appears when performing operation to protect the equipment.
  (13) Appears when performing the power supply/exhaust function or the delay operation at the start of operation.
  (14) Indicates the ventilation mode setting.
  (15) Appears when operation is interlocked with the external unit.
  (17) Appears when external fan speed operation.

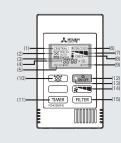
- (17) Appears when external ventilation mode operation.
   (18) Displays the outdoor temperature, return temperature, and supply temperature (calculated value).

alized

#### Lossnay Remote Controller (PZ-43SMF-E)







<ol> <li>Displayed during remote operation control unit, etc.</li> </ol>	tion is prohibited by the centralized
(2) Displays the ventilation mode st	atus.
Heat exchange	*** HEAT EX.
By-pass	BY-PASS
Automatic (HEAT EX./BY-PASS)	AUTO OF SY PASS
<ul><li>(3) Displayed while the Lossnay rer</li><li>(4) Displays on-timer or off-timer du</li><li>(5) When a button is pressed for</li></ul>	
cannot perform, this display flas the function.	shes concurrently with the display of
external signal.	arts off by interlocked indoor unit or
(7) Displays the selected fan speed	
(8) Displayed together with the malf code (4 digits).	unctioning unit (3 digits) and an error
(9) Displayed when the accumulate set for filter maintenance.	ed operating time reaches the time
<li>(10) Used to select the ventilation n or automatic.</li>	node among heat exchange, by-pass
<li>(11) Increasing 0:30 by pressing it fast-forwarding.</li>	once. Keep pressing the button for
(12) Switch for start and stop.	
(13) On during operation. Flashes w	
(14) Used to select the fan speed e	ither "Low" or "High".
Low 🕵 📥	High

Unit: mm

(15) Press twice to reset the filter sign display.

## **Filters**

### **Standard Filters**

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



		Filter			Lossnay		
Filter	Classif	ication	Model Name	Included	Applicable model	Required	
Material	ISO 16890	EN779 (2012)	Iviodel Name	piece/set	Applicable model	filter pieces	
	Coarse 35%	G3*	PZ-15RF8-E	2	LGH-15RVX-E	2	
			PZ-25RF8-E	4	LGH-25RVX-E	4	
			PZ-35RF8-E	4	LGH-35RVX-E	4	
			PZ-50RF8-E	4	LGH-50RVX-E, GUF-50RD4, GUF-50RDH4	4	
			PZ-65RF8-E	4	LGH-65RVX-E	4	
Non-woven Fabrics			PZ-80RF8-E	4	LGH-80RVX-E	4	
1 451100			FZ-OUNF8-E	4	LGH-150RVX-E	8	
			PZ-100RF8-E	4	LGH-100RVX-E, GUF-100RD4, GUF-100RDH4	4	
			PZ-100RF8-E	4	LGH-200RVX-E	8	
		63	PZ-150RTF-E	4	LGH-150RVXT-E	4	
	Coarse 50%	G3	PZ-250RTF-E	4	LGH-200RVXT-E, LGH-250RVXT-E	4	

\*The classification in EN779 (2002) is G3.

## High-efficiency Filters Optional

These high-efficiency filters can be easily inserted in the Lossnay unit without the need to attach external parts.



		Filter			Lossnay		
Filter	Classif	ication	Model Name	Included	Applicable model	Required	
Material	ISO 16890	EN779 (2012)	Would Marrie	piece/set	Applicable model	filter pieces	
	ePM1075%	M6*	PZ-15RFM-E	1	LGH-15RVX-E	1	
			PZ-25RFM-E	2	LGH-25RVX-E	2	
			PZ-35RFM-E	2	LGH-35RVX-E	2	
			PZ-50RFM-E	2	LGH-50RVX-E, GUF-50RD4, GUF-50RDH4	2	
Synthetic fiber			PZ-65RFM-E	2	LGH-65RVX-E	2	
			PZ-80RFM-E	2	LGH-80RVX-E	2	
			FZ-OUNT MEL	2	LGH-150RVX-E	4	
			PZ-100RFM-E	2	LGH-100RVX-E, GUF-100RD4, GUF-100RDH4	2	
			r 2-100NFIVI-E	2	LGH-200RVX-E	4	

\*The classification in EN779 (2002) is F7.

### Advanced High-efficiency Filters (For LGH-RVX and GUF Series) Optional

These advanced high-efficiency filters are designed to remove approx. 99.7% of airborne particulates that are 0.5 $\mu$ m or larger. \*GB/T14295-2008 : YG class, 99.7% ( Collecting efficiency for particles that are 0.5 $\mu$ m or larger )



		Filter			Lossnay		
Filter	Classif	ication		Included		Required	
Material	ISO 16890	ASHRAE 52.2 (2017)	Model Name	piece/set	Applicable model	filter pieces	
	ePM1 75%		PZ-15RFP <sub>2</sub> -E	1	LGH-15RVX-E	1	
		MERV16	PZ-25RFP <sub>2</sub> -E	2	LGH-25RVX-E	2	
			PZ-35RFP2-E	2	LGH-35RVX-E	2	
			PZ-50RFP <sub>2</sub> -E	2	LGH-50RVX-E, GUF-50RD4, GUF-50RDH4	2	
Synthetic fiber	ePM2.5 80%		PZ-65RFP2-E	2	LGH-65RVX-E	2	
	ePM10 95%		PZ-80RFP2-E	2	LGH-80RVX-E	2	
		-	FZ-OUNFF2-E	2	LGH-150RVX-E	4	
			PZ-100RFP2-E	2	LGH-100RVX-E, GUF-100RD4, GUF-100RDH4	2	
			FZ-TOUNFF2-E	2	LGH-200RVX-E	4	

### Advanced High-efficiency Filters (For LGH-RVXT Series) Optional

These advanced high-efficiency filters can be easily inserted in the Lossnay unit without the need to attach external parts.



			Filter		Lossnay			
	Filter	Classif	ication	Model Name	Included	Applicable model	Required	
	Material	ISO 16890	EN779 (2012)	Would Marrie	piece/set	Applicable model	filter pieces	
	Non-woven Fabrics	ePM10 75%	M6*	PZ-M6RTFM-E	3			
		ePM1 65% ePM2.5 75% ePM10 90%	F8*	PZ-F8RTFM-E	3	LGH-150RVXT-E, LGH-200RVXT-E, LGH-250RVXT-E	3	

\*There is no data for the classification in EN779 (2002).

## Optional Dx-coil Unit for Lossnay

#### **Supply Comfortable Control**

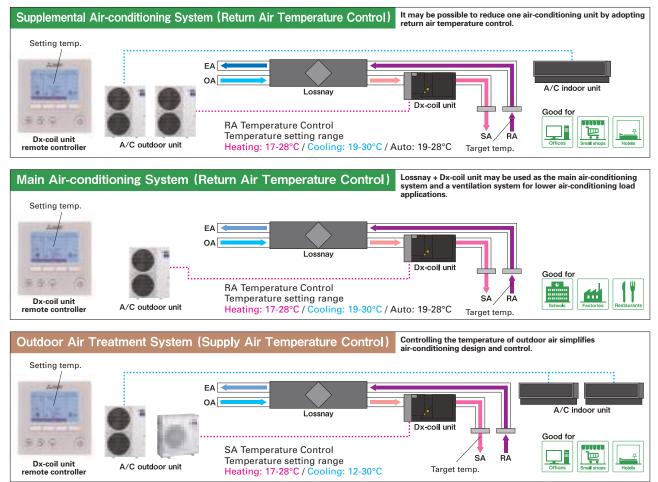
#### **Product Features**

- Lossnay return air and supply air temperature control are possible by connecting the Dx-coil unit to Mr. Slim (power inverter series).
- Connecting the Dx-coil unit will expand Lossnay's temperature control range (500-2,500 CMH).
- Suitable for various applications such as offices, shops and schools etc.

#### Target Applications

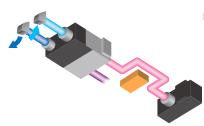


#### **Application Examples**



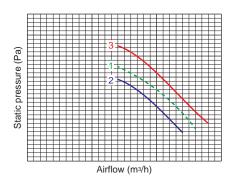
<sup>\*</sup>The above images of using the LGH-RVXT Series are simply examples for reference.

**Flexible Installation** 



#### Flexible Connection to Lossnay

The length of the connection cable (accessory) between the Lossnay and Dx-coil unit is about 6m, so flexible installation is possible (two units can be installed close together or far apart with straight or bent ducting).



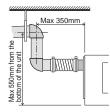
#### To Keep High Static Pressure

- P-Q curve image
- 1. Lossnay unit
- 2. Lossnay unit + Dx-coil unit
- 3. Lossnay unit (fan power-up +4) + Dx-coil unit

Dx-coil unit static pressure loss is kept to a minimum, making it possible to maintain high static pressure using the fan power-up function of the Lossnay. The fan power-up function is only available when used with the PZ-61DR-E Lossnay remote controller.

#### **Drain Pump Equipment**

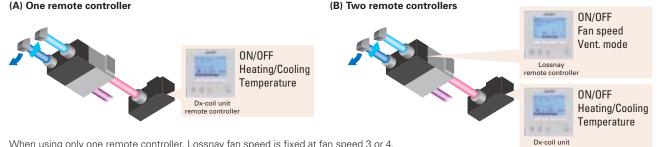
A built-in drain pump makes attaching the drain hose in the ceiling cavity easy, resulting in simple and fast installation.



#### **User-friendly System Control**

Flexible Remote Controller Selection

(A) One remote controller



When using only one remote controller, Lossnay fan speed is fixed at fan speed 3 or 4.

When using two remote controllers, all Lossnay functions are available.

\*1: Lossnay unit and Dx-coil unit both will synchronously switch on and off.

\*2: When one of the two remote controllers is turned ON, the other remote controller turns ON synchronously.

#### **Priority Mode Selection**

Temperature priority mode (factory setting) or Fan speed priority mode are selectable when Lossnay unit fan speed is controlled by a CO2-sensor or a BMS (analog input (0 - 10 VDC) or a volt-free input).

\*During fan speed 1 or 2, the Dx-coil unit is always set to thermo-OFF

Operation	Fan speed order	Actual fan speed				
mode	from external input	Temp. priority	Fan speed priority			
	FS4	FS4	FS4			
Heating	FS3	FS3	FS3			
or Cooling	FS2	FS3	FS2			
Cooling	FS1	FS3	FS1			
	FS4	FS4	FS4			
Fan	FS3	FS3	FS3			
Fan	FS2	FS2	FS2			
	FS1	FS1	FS1			

remote controller

## **Specifications**

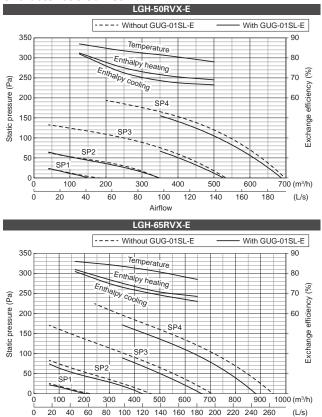
## GUG-01SL-E (Connection to LGH-50RVX-E or LGH-65RVX-E)



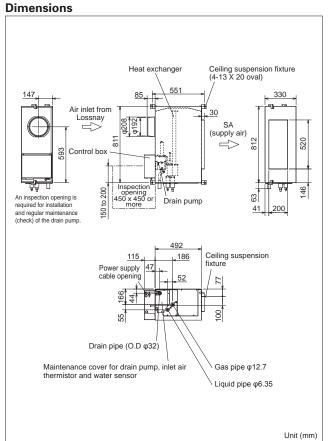
GUG-01SL-E

Refrigerant R410A									
Electrical power supp	bly	220-240V / 50Hz	220V / 60Hz (Sup	plied from outdoor	r unit)				
Input power		Heating / Fan: 2.5	W, Cooling: 12.4W	I					
Running current		Less than 0.1A							
Weight		21kg *Accesso	ries: Approx. 1kg						
Europhice.		Heating / Cooling	/ Auto / Fan *Au	ito is only available	for RA temperatu	re control			
Function		RA (Return Air) te	emperature control						
					RA (Return Air) te	emperature control			
Connectable Lossnay	/ unit		LGH-50	RVX-E			LGH-6	5RVX-E	
Capacity [kW]	Heating		6.5 ( 2.4	1 + 4.1 )			7.7 ( 3.2	2 + 4.5 )	
	Cooling		5.6 ( 2.0	) + 3.6 )		6.6 ( 2.6 + 4.0 )			
SHF			0.0	66		0.69			
De la companya de la companya	Heating		4.0	09		4.72			
Performance index	Cooling		4.0	69		5.03			
Airflow range at SP3	and SP4		350 - 6	95 m³/h		350 - 900 m³/h			
Connectable outdoor	unit		PUHZ-	ZRP35		PUHZ-ZRP35			
Est alata a			Diameter Liquid	/ Gas: 6.35 / 12.7		Diameter Liquid / Gas: 6.35 / 12.7			
Ext. piping		Max	imum length: 50m,	Maximum height:	30m	Maximum length: 50m, Maximum height: 30m			
					Ventilation s	pecifications			
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Airflow	[m <sup>3</sup> /h]	500	375	250	125	650	488	325	163
AITIOW	[L/s]	139	104	69	35	181	135	90	45
External static pressu	ire [Pa]	105	59	26	7	95	53	24	6

#### **Characteristic Curves**



Airflow



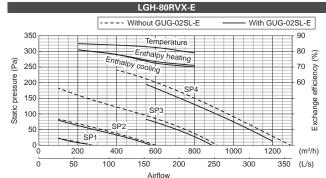
## GUG-02SL-E (Connection to LGH-80RVX-E or LGH-100RVX-E)

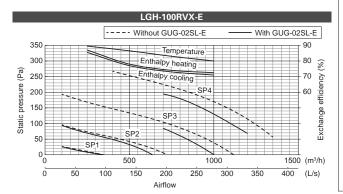


GUG-02SL-E

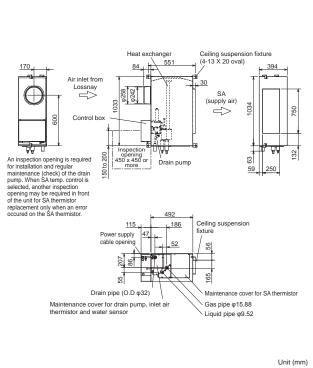
Refrigerant		R410A										
Electrical power supp	oly	220-240V / 50Hz	, 220V / 60Hz (Sup	plied from outdoor	r unit)							
Input power		Heating / Fan: 2.5	W, Cooling: 12.4W	İ								
Running current		Less than 0.1A										
Weight		26kg *Accesso	26kg *Accessories: Approx. 1kg									
		Heating / Cooling	/ Auto / Fan *Au	ito is only available	for RA temperatur	e control						
Function		RA (Return Air) te [Must be set at in	emperature control itial setting and not	/ SA (Supply Air) to t possible to chang	emperature control e from remote con	troller]						
		-			RA (Return Air) te	mperature control						
Connectable Lossna			LGH-80					0RVX-E				
Capacity [kW]	Heating		10.0 ( 4.					.1 + 8.1 )				
, ,, ,	Cooling		8.3 ( 3.3				11.3 ( 4.					
SHF			0.					66				
Performance index	Heating		4.0					42				
	Cooling		4.					98				
Airflow range at SP3				200 m³/h				200 m³/h				
Connectable outdoor	unit			ZRP50		PUHZ-ZRP71						
Ext. piping				/ Gas: 6.35 / 12.7				/ Gas: 9.52 / 15.88				
Ext. pipilig				Maximum height:		Max	imum length: 50m,	, Maximum height:	30m			
Required optional pa	rts		PAC-SH30RJ-E and PAC-SH50RJ-E									
		SA (Supply Air) temperature control										
Connectable Lossnay			LGH-80			LGH-100RVX-E						
Capacity [kW]	Heating		10.0 ( 4.			11.4 ( 5.1 + 6.3 )						
, ,, ,	Cooling		8.3 ( 3.3			9.5 ( 4.2 + 5.3 )						
SHF			0.			0.73						
Performance index	Heating		4.0			5.09						
	Cooling		4.				5.43					
Airflow range at SP3				200 m³/h				200 m³/h				
Connectable outdoor	unit		PUHZ-					ZRP50				
Ext. piping				/ Gas: 6.35 / 12.7		Diameter Liquid / Gas: 6.35 / 12.7						
				Maximum height:				, Maximum height:	30m			
Required optional pa	rts		PAC-SH30RJ-E ar	nd PAC-SH50RJ-E			PAC-SH30RJ-E a	nd PAC-SH50RJ-E				
				Ventilation spec	ifications							
Connectable Lossnay	y unit		LGH-80			LGH-100RVX-E						
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1			
	[m <sup>3</sup> /h]	800	600	400	200	1,000	750	500	250			
Airflow												
Airflow External static pressu	[L/s]	222 130	167 73	111 33	56 8	278 130	208 73	139 33	69 8			

#### **Characteristic Curves**





#### Dimensions



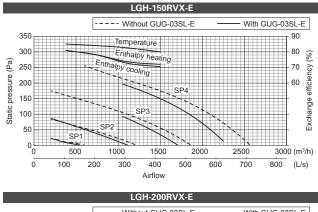
## Specifications GUG-03SL-E (Connection to LGH-150RVX-E or LGH-200RVX-E)

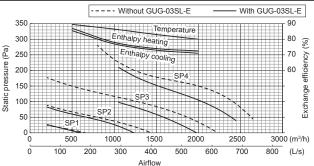


GUG-03SL-E

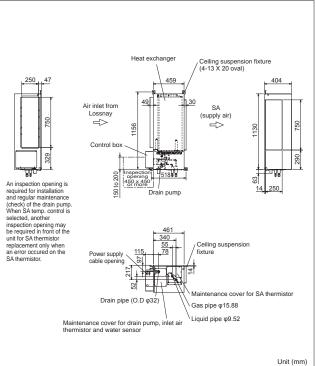
Refrigerant		R410A								
Electrical power supp	bly		, 220V / 60Hz (Sup	plied from outdoo	unit)					
Input power		Heating / Fan: 2.5W, Cooling: 12.4W								
Running current		Less than 0.1A								
Weight		28kg *Accesso	ories: Approx. 1kg							
		Heating / Cooling	/ Auto / Fan *Au	uto is only available	for RA temperatur	re control				
Function		RA (Return Air) te [Must be set at in	emperature control itial setting and no	/ SA (Supply Air) t t possible to chance	emperature contro e from remote con	l troller]				
		-			RA (Return Air) te	mperature control				
Connectable Lossnay	/ unit		LGH-15	0RVX-E			LGH-20	0RVX-E		
Capacity [kW]	Heating		20.7 ( 7.7	7 + 13.0 )			23.8 ( 10.	.3 + 13.5 )		
Capacity [KVV]	Cooling		15.8 ( 6.	3 + 9.5 )			18.4 ( 8.4	4 + 10.0 )		
SHF			0.					.76		
Performance index	Heating			24			•••	.02		
	Cooling		5.					.86		
Airflow range at SP3				250 m³/h		1050 - 2600 m³/h				
Connectable outdoor	unit			ZRP100		PUHZ-ZRP100				
Ext. piping				/ Gas: 9.52 / 15.88				/ Gas: 9.52 / 15.88		
Ext. piping		Max	imum length: 75m,	Maximum height:			imum length: 75m,	, Maximum height:	30m	
		SA (Supply Air) temperature control								
Connectable Lossnay			LGH-15	-		LGH-200RVX-E				
Capacity [kW]	Heating		16.6 ( 7.			19.5 ( 10.3 + 9.2 )				
	Cooling		13.4 ( 6.	- /				.5 + 7.4 )		
SHF			0.				•.	.90		
Performance index	Heating			46		6.30				
	Cooling		5.	-				85		
Airflow range at SP3				250 m³/h				600 m³/h		
Connectable outdoor	unit		PUHZ-					-ZRP71		
Ext. piping				/ Gas: 9.52 / 15.88				/ Gas: 9.52 / 15.88		
Ext. piping		Max	imum length: 50m,	Maximum height:			imum length: 50m,	, Maximum height:	30m	
		Ventilation specifications								
Connectable Lossnay	/ unit		LGH-15			LGH-200RVX-E				
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	
Airflow	[m <sup>3</sup> /h]	1,500	1,125	750	375	2,000	1,500	1,000	500	
	[L/s]	417	313	208	104	556	417	278	139	
External static pressure [Pa] 150 84 38 9					105	59	26	7		

### **Characteristic Curves**



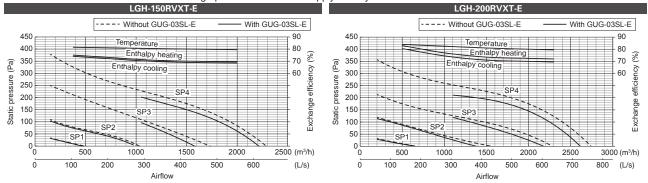


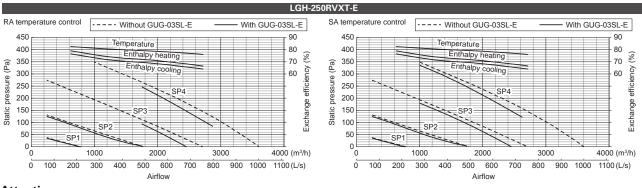
#### Dimensions



Refrigerant		R410A												
	du c		E0H- 000V	( COLI - ( C	oplied from o	utdoor un:+)								
Electrical power supp	лу					uldoor unit)								
Input power		Less than (	an: 2.5W, Co	oling: 12.4W	V									
Running current														
Weight			cessories: A											
		<u> </u>	ooling / Auto			railable for RA temperature control								
Function		RA (Return	Air) tempera et at initial se	ature control etting and no	/ SA (Supply t possible to	or the second								
		-				RA (F	Return Air) te	emperature c	ontrol					
Connectable Lossnay	/ unit		LGH-150	RVXT-E			LGH-20	DRVXT-E			LGH-25	0RVXT-E		
Capacity [kW]	Heating		20.4 ( 7.4	+ 13.0 )			23.8 ( 10.	3 + 13.5 )			26.1 (12	.1 + 14.0 )		
Capacity [KVV]	Cooling		15.7 ( 6.	2 + 9.5 )			18.4 ( 8.4	4 + 10.0)			22.3 ( 9.	8 + 12.5 )		
SHF			0.68				0.	76			0.	.87		
Performance index	Heating		4.0	07			4.	86			4.	75		
Fenormance index	Cooling	5.03			5.59				4.59					
Airflow range at SP3		SP4 1050 - 2250 m <sup>3</sup> /h					600 m³/h		1750 - 2880 m³/h					
Connectable outdoor	putdoor unit PUHZ-ZRP100					PUHZ-2	ZRP100			PUHZ-	ZRP125			
Ext. piping		Diame	ter Liquid	/ Gas: 9.52 /	/ 15.88	Diame	eter Liquid	/ Gas: 9.52	/ 15.88	Diame	eter Liquid	/ Gas: 9.52 /	15.88	
Ext. piping		Maximum	length: 75m,	Maximum h	eight: 30m	Maximum	length: 75m,	Maximum h	eight: 30m	Maximum	length: 75m	, Maximum h	eight: 30m	
						SA (Supply Air) temperature control								
Connectable Lossnay	/ unit		LGH-150	RVXT-E		LGH-200RVXT-E						LGH-250RVXT-E		
Capacity [kW]	Heating		16.3 ( 7.4	4 + 8.9 )			19.5 ( 10	.3 + 9.2 )			21.6 ( 12	2.1 + 9.5 )		
Capacity [KVV]	Cooling		13.3 ( 6.	2 + 7.1 )			15.9 ( 8	.5 + 7.4 )			17.6 ( 9	.8 + 7.8 )		
SHF			0.8	86			0.	90			0.	.95		
Performance index	Heating		5.	16			6.	01			5.	.97		
Fenormance index	Cooling		5.	03			5.	54			5.	31		
Airflow range at SP3	and SP4		1050 - 22	250 m³/h			1050 - 2	600 m³/h			1000 - 2	600 m³/h		
Connectable outdoor	unit		PUHZ-	ZRP71			PUHZ-	ZRP71			PUHZ	-ZRP71		
Fut sising		Diame	ter Liquid	/ Gas: 9.52 /	/ 15.88	Diame	eter Liquid	/ Gas: 9.52	/ 15.88	Diame	eter Liquid	/ Gas: 9.52 /	/ 15.88	
Ext. piping	Ext. piping Maximum length: 50m, Maximum height: 30m		eight: 30m	Maximum	length: 50m,	Maximum h	eight: 30m	Maximum	length: 50m	, Maximum h	eight: 30m			
							Ventilation s	pecifications	;					
Connectable Lossnay	/ unit		LGH-150	RVXT-E			LGH-200	DRVXT-E			LGH-25	0RVXT-E		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	
Airflow	[m³/h]	1,500	1,125	750	375	2,000	1,500	1,000	500	2,500	1,875	1,250	625	
AIIIIOW	[L/s]	417	313	208	104	556	417	278	139	694	521	347	174	
External static pressu	ıre [Pa]	150	84	38	9	145	82	36	9	140	79	35	9	

Characteristic Curves Note The graphs below show the supply air only.





#### Attention

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 for reference purpose only.

Performance index = Total capacity ÷ total power consumption of outdoor unit and Lossnay unit

The external static pressure listed in the tables includes the static pressure loss of the Dx-coil unit when using a 50cm straight duct between the Lossnay and Dx-coil units. When the duct work between the Lossnay and Dx-coil units is longer and/or bent, the pressure loss of the duct work should be included in the pressure loss calculation.
 The designed airflow of the system (Lossnay, Dx-coil and duct work) at fan speed 3 and 4 should be kept within "Airflow range at SP3 and SP4" listed in the tables. This range

is shown as the solid line in graphs of the characteristic curves. If the Lossnay airflow is out of this range, the compressor of the outdoor unit may stop for self-protection purposes. 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" catalog.

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

## **Duct Silencer**

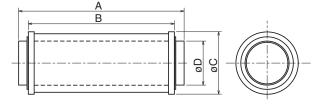
- This duct silencer connects to Lossnay unit to reduce the noise of its airflow.
- There are 4 sizes in order to cover a wide range of duct sizes.



## Specifications

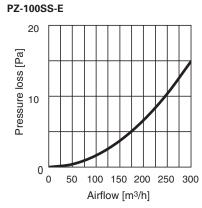
Model	Airflow	Attenuation of sound power level [dB] for center frequency (Discharge)									
Woder	[m <sup>3</sup> /h]	62.5Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz		
PZ-100SS-E	50	0	3	5	7	6	6	6	8		
PZ-10055-E	150	0	3	6	7	7	7	7	9		
PZ-150SS-E	250	0	1	5	8	15	21	20	14		
FZ-15033-E	350	0	1	4	8	14	21	21	16		
PZ-200SS-E	500	0	1	4	7	13	18	16	9		
PZ-20055-E	650	0	1	3	8	12	17	14	6		
PZ-250SS-E	800	0	2	4	12	22	21	14	13		
FZ-23033-E	1000	0	1	4	12	22	20	14	13		

### Dimensions

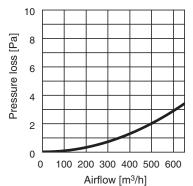


						Unit: mm
Model	A	В	С	D	Connecting duct	Weight (kg)
PZ-100SS-E	450	400	152	99	ø100	1.9
PZ-150SS-E	560	500	202	149	ø150	3.5
PZ-200SS-E	660	600	252	199	ø200	5.3
PZ-250SS-E	660	600	332	249	ø250	8.9

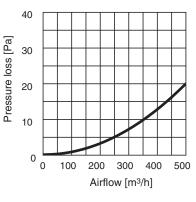
#### **Pressure loss curve**



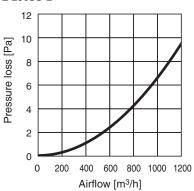
PZ-200SS-E











## **Optional Parts List**

	Lossnay										ш	ш	ш				
	· ·	LGH-15RVX-E	LGH-25RVX-E	LGH-35RVX-E	LGH-50RVX-E	LGH-65RVX-E	LGH-80RVX-E	LGH-100RVX-E	LGH-150RVX-E	LGH-200RVX-E	LGH-150RVXT-E	LGH-200RVXT-E	LGH-250RVXT-E	GUF-50RD4	GUF-50RDH4	GUF-100RD4	GUF-100RDH4
Optional Parts		LGH-1	LGH-2	LGH-3	LGH-5	LGH-6	LGH-8	LGH-1	LGH-1	LGH-2	LGH-1	LGH-2	LGH-2	GUF-5	GUF-5	GUF-1	GUF-1
Lossnay	PZ-61DR-E	٠	•	•	•	•	•	•	•	•	•	•	•				
Remote Controller	PZ-43SMF-E	٠	٠	•	•	•	٠	•	•	•	•	٠	٠				
	PZ-15RF8-E	٠															
	PZ-25RF8-E		٠														
	PZ-35RF8-E			•													
Chan dand	PZ-50RF8-E				٠									•	•		
Standard Filter	PZ-65RF8-E					•											
	PZ-80RF8-E						•		•								
	PZ-100RF8-E							•		•						٠	٠
	PZ-150RTF-E										•						
	PZ-250RTF-E											٠	٠				
	PZ-15RFM-E	•															
	PZ-25RFM-E		•														
	PZ-35RFM-E			•													
High-efficiency Filters	PZ-50RFM-E				•									•	•		
	PZ-65RFM-E					•											
	PZ-80RFM-E						•		•								
	PZ-100RFM-E							•		•						•	•
	PZ-15RFP <sub>2</sub> -E	•															
	PZ-25RFP <sub>2</sub> -E		٠														
	PZ-35RFP2-E			•													
	PZ-50RFP <sub>2</sub> -E				•									•	•		
Advanced High-efficiency	PZ-65RFP <sub>2</sub> -E					•											
Filters	PZ-80RFP2-E						•		•								
	PZ-100RFP <sub>2</sub> -E							•		•						•	•
	PZ-M6RTFM-E										•	•	•				
	PZ-F8RTFM-E										•	•	•				
	PZ-100SS-E	•															
Duct Silencer	PZ-150SS-E		•	•													
Date Grencer	PZ-200SS-E				•	•								•	•		
	PZ-250SS-E						•	•								•	•
WiFi Interface	MAC-567IF-E	•	•	•	•	•	•	•	•	•	•	•	•				
Remote On/Off Adapter	PAC-SE55RA-E	●*1	● <sup>*1</sup>	• <sup>*1</sup>	● <sup>*1</sup>	•*1	● <sup>*1</sup>	•*1	● <sup>*1</sup>	•*1	•*1	● <sup>*1</sup>	•*1	•*1	● <sup>*1</sup>	● <sup>*1</sup>	●*1
Connector Cable for Remote Display	PAC-SA88HA-E	● <sup>*2</sup>	•* <sup>2</sup>	•*2	•*2	•*2	•* <sup>2</sup>	•*2	•* <sup>2</sup>	•*2	•*2	● <sup>*2</sup>	•*2	●*3	● <sup>*3</sup>	● <sup>*3</sup>	● <sup>*3</sup>

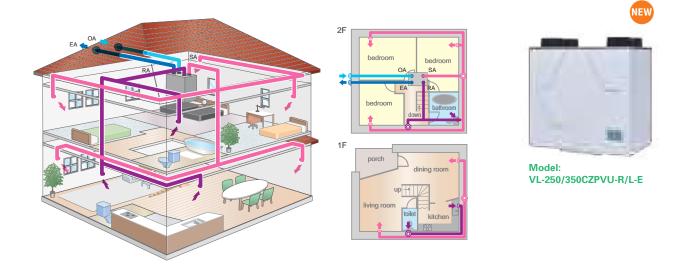
\*1: PAC-SE55RA-E is used for CN32 of Lossnay unit. \*2: PAC-SA88HA-E is used for CN17 and CN26 of Lossnay unit. \*3: PAC-SA88HA-E is used for CN51 and CN52 of Lossnay unit. Note: Please refer to each product page for required number of pieces/sets.

# **Residential Use Lossnay**

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

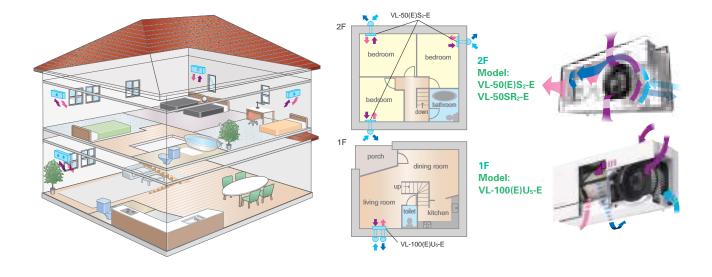
#### **Centralized Ventilation Solution**

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 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.





## VL-250CZPVU-R/L-E, VL-350CZPVU-R/L-E

**VL-CZPVU SERIES** 



#### **Quiet Operation**



Noise is one of the most common concern for residential ventilation. Ultra quiet operation is achieved with the sirocco fan designed by Mitsubishi Electric. The balance between airflow and the static pressure is optimized and the fan rotation is minimized, which leads to a low noise level.

#### **Air Purification**



The optional filter corresponding to NOx and PM2.5 removes the substance and improves the indoor air quality. They can be incorporated inside the unit without any filter box, which saves space. \*NOx: Nitrogen oxide which includes nitric oxide (NO) and nitrogen dioxide (NO<sub>2</sub>) etc. \*PM2.5: Airborne particulates that are 2.5µm or smaller in size.

#### Wi-Fi Control



MELCloud is a Cloud-based solution for controlling Lossnay either locally or remotely by computer, tablet or smartphone via the Internet. You can control and check Lossnay via MELCloud from virtually anywhere an Internet connection is available. With MELCloud, you can use Lossnay much more easily and conveniently.

## **Key Features**

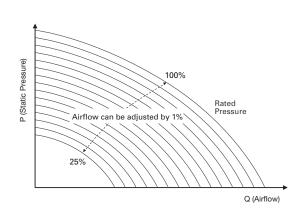
#### **Energy Efficient**

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



#### Variable Airflow Control

The default fan speed value (Fan speed 1: 30%, Fan speed 2: 50%, Fan speed 3: 70%, and Fan speed 4: 100%) of both supply air and exhaust air can be adjusted more flexibly. Within the range between 25% and 100%, airflow can be adjusted by 1% to satisfactorily meet the designed airflow rate. This enables to simplify the airflow setting in commissioning.



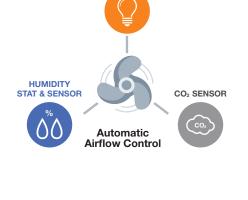
Using a 0-10V signal from the controllers such as the humidity stats and CO2

sensors, the airflow of the Lossnay unit can be changed. It is also connected to the light switch and can change to the boost operation (Input 220-240V). They are connected directly to the Lossnay units allowing the fan speed to automatically change according to the bathroom occupation, the CO<sub>2</sub> level, and the humidity level.

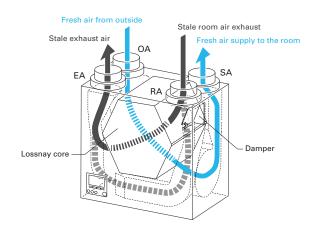
## **External Airflow Control**

**Automatic Bypass Mode** 

It is possible to select manual switching or automatic switching between "Lossnay ventilation (with heat exchange)" and "Bypass ventilation (without heat exchange)". When the outside air is cooler than the indoor air in summer, the unit will bypass the heat exchanger and draw in outside air directly.



LIGHT SWITCH



\* The figure shows VL-350CZPVU-L-E

#### Wide Operating Temperature Range

The VL-CZPVU series operating temperature range is down to -15°C. With a pre-heater, it is available down to -25°C.

\* In areas where the outdoor air is below -20°C, electric shutters (local supply) is required in the OA duct in addition to the pre-heater.

\* With the pre-heater, the OA temperature must be higher than -15°C.

#### **MELCloud for Lossnay**

MELCloud enables fast, easy remote control and monitoring for Lossnay. All you need is wireless computer connectivity in your home where Lossnay is installed and Internet connection on your mobile or fixed terminal. It can also be controlled with room air conditioner/ecodan simultaneously.

#### Key Control and monitoring features

- 1. Turn system on/off
- 2. Change the airflow & operating mode (Heat recovery / Bypass)
- 3. See the status of the filter (Maintenance notification)



#### **New Ventilator Selection Software**

The new selection tool enables the user to see the specification of the duty point including SFP, noise level, and exchange efficiency. It also provides the certification documents and CAD data for each models.

#### Easy 3 steps

- 1. Input the required airflow and pressure.
- 2. Select model which matches the request.
- 3. Output the "Fan Data Sheet" by PDF.



#### YouTube Channel

In the new YouTube channel "Mitsubishi Electric Nakatsugawa Works", videos about ventilation products, remote controller commissioning, how to use the software is available.



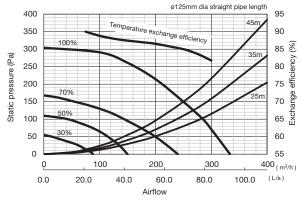
## **Residential Lossnay Specifications**

## VL-250CZPVU-R/L-E

Electrical Power Supply			220-240V/50H	lz, 220V/60Hz		
Ventilation Mode			Heat recov	very mode		
Fan speed		FS4 (100%)	FS3 (70%)	FS2 (50%)	FS1 (30%)	
Running Current (A)		0.76	0.35	0.20	0.12	
Input Power (W)		106	44	23	11	
Airflow	(m <sup>3</sup> /h)	250	175	125	75	
AITIOW	(I/s)	69	49	35	21	
External Static Pressure (P	a)	150	74	38	14	
Temperature Exchange Eff	iciency (%)	85	87	88	90	
Noise Level (dB)		31	22	16	15>	
Energy Efficiency Class			۵	<u>_</u> +		
Weight (kg)	nt (kg) 26					
Dimensions (mm)			(W) 595 × (D)	356 × (H) 565		

The above values are at factory default.
 The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.
 The sound pressure level at 3m is spherical.
 Temperature exchange efficiency (%) is based on winter condition.
 Mitsubishi Electric measures figures in the chart according to EN13141-7:2010, and the characteristic curves are measured by chamber method.

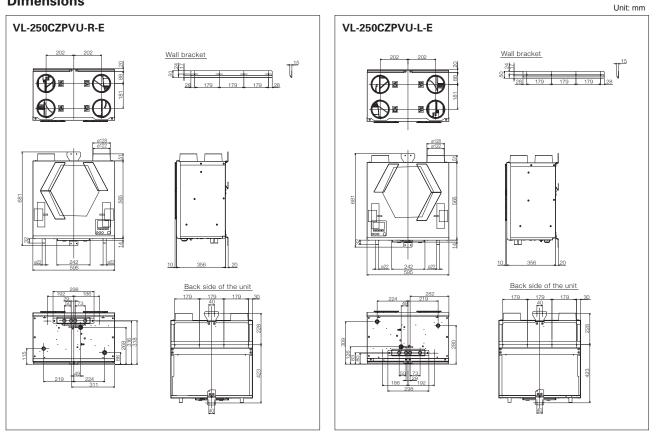
## **Characteristic Curves**



Attention

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

### **Dimensions**



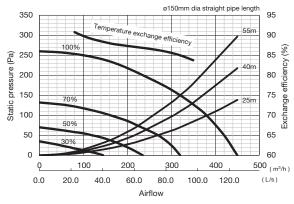
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## VL-350CZPVU-R/L-E

Electrical Power Supply			220-240V/50H	Iz, 220V/60Hz				
Ventilation Mode			Heat recov	very mode				
Fan speed		FS4 (100%)	FS3 (70%)	FS2 (50%)	FS1 (30%)			
Running Current (A)		1.08	0.52	0.31	0.18			
Input Power (W)		155	71	37	19			
Airflow	(m <sup>3</sup> /h)	320	224	160	96			
Airiow	(I/s)	89	62	44	27			
External Static Pressure (P	'a)	150	74	38	14			
Temperature Exchange Eff	iciency (%)	85	87	88	90			
Noise Level (dB)		35	26	19	15>			
Energy Efficiency Class		Á+						
Weight (kg)         32								
Dimensions (mm)			(VV) 658 × (D)	432 x (H) 623				

The above values are at factory default.
 The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.
 The sound pressure level at 3m is spherical.
 Temperature exchange efficiency (%) is based on winter condition.
 Mitsubishi Electric measures figures in the chart according to EN13141-7:2010, and the characteristic curves are measured by chamber method.

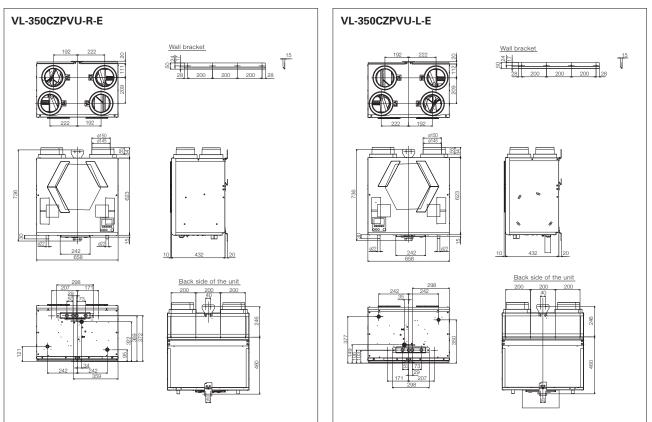
## **Characteristic Curves**



Attention

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

#### **Dimensions**

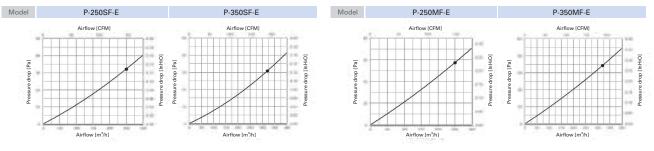


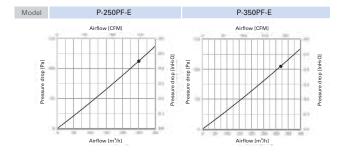
Unit: mm

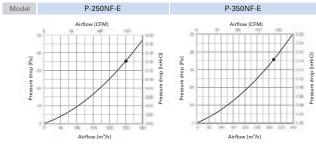
## Filters

Туре	Ð	Replacement Filter	Standard Filter	Medium Efficiency Filter	PM2.5 Filter	NOx Filter
Desiç	Design					
Mod	Model P-250F-E P-350F-E		P-250SF-E P-350SF-E	P-250MF-E P-350MF-E	P-250PF-E P-350PF-E	P-250NF-E P-350NF-E
Classification	EN779 G3 G4		G4	M6	M6	NO2 90%
Classification	ISO 16890	Coarse 55%	Coarse 90%	ePM10 80%	ePM2.5 50%	1402 90 %

## Pressure loss characteristic







#### **Remote Controller Cover**

P-RCC-E With Remote Controller Cover, the remote controller can be installed apart from the unit.



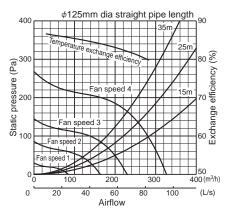
#### Model: VL-220CZGV-E

Model			VL-220CZGV-E						
Electrical power supply			220-240V/50H	Hz 220V/60Hz					
Ventilation mode			Heat reco	very mode					
Fan speed		Fan speed 4	Fan speed 4 Fan speed 3 Fan speed 2 Fa						
Running current		0.60	0.29	0.18	0.11				
Input power (W)		80	35	18.5 8.5					
Airflow	(m³/h)	230	165	120	65				
Aimow	(L/s)	64	46	33	18				
External static pressure (Pa)		164	84	44	13				
Temperature exchange efficier	юу (%)	82	84	85	86				
Noise level (dB)		31	25	19	14				
Weight (kg) 31									
Specific energy consumption class A									

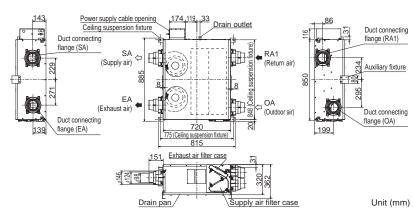
1. The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz. The noise is measured at 1.5m under the center of the unit in an anechoic chamber.

Temperature exchange efficiency (%) is based on winter condition.
 Mitsubishi Electric measures figures in the chart according to Japan Industrial Standard (JIS B 8628), therefore the characteristic curves are measured by chamber method.

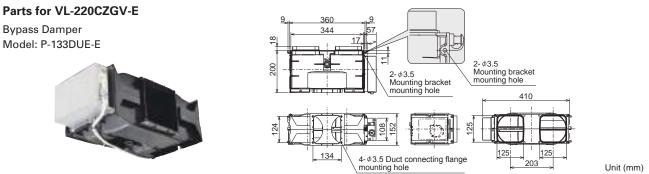
#### **Characteristic Curve**



#### **Dimensions**



## **Optional Parts**

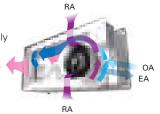


Filters

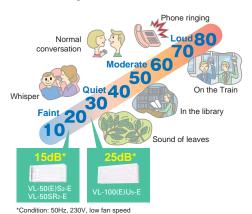
Туре	Standard Replacement Filter	Medium Efficiency Exhaust Air Filter	High Efficiency Supply Air Filter
Design		Optional	Optional
Model	P-220F-E	P-220EMF-E	P-220SHF-E
Classification (EN779:2012)	G3	G4	M6
Classification (ISO16890)	Coarse 35%	ePM10 50%	ePM10 70%

## Decentralized ventilation: VL-50(E)S<sub>2</sub>-E, VL-50SR<sub>2</sub>-E and VL-100(E)U<sub>5</sub>-E

## Product Merit Air supplied and Exhausted Simultaneously Supply and exhaust air simultaneously while transferring the heat.



The low noise level is good for bedrooms and children's rooms.



## **Product Features**

### Stylish Design

Match any interior decor to create a comfortable room.

### Energy Efficient

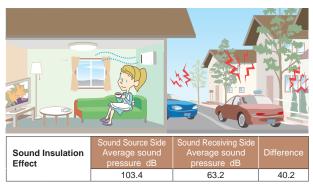
• Total heat exchanger minimizes heat loss.

• Achieve over 80% \* temperature efficiency.

\*VL-100(E)U5-E at low fan speed in 230V 50Hz \*VL-50(E)S2-E at low fan speed in 230V 50Hz

#### Sound Insulation

A sound insulation effect reduces noise generated outside.



\*Tested based on VL-08S2-AE

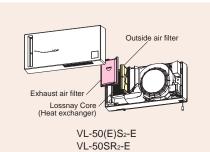
\*Measured by average sound pressure level of more than 30dB in 500Hz according to JIS A1416. VL-08S2-AE is a Japanese dedicated model equivalent to VL-50(E)S2-E



VL-100(E)U5-E

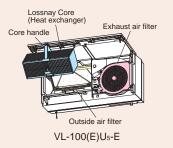
#### **Easy Maintenance**

The only maintenance required is cleaning the outside-air filter and exhaust-air filter. Filters are easily accessible, making quick and thorough cleaning possible.



VL-50(E)S2-E

VL-50SR<sub>2</sub>-E



#### Flexible Installation for Only VL-50(E)S<sub>2</sub>-E and VL-50SR<sub>2</sub>-E

Not only horizontal installation but also vertical installation is available. It can fit various types of rooms with flexible installation.



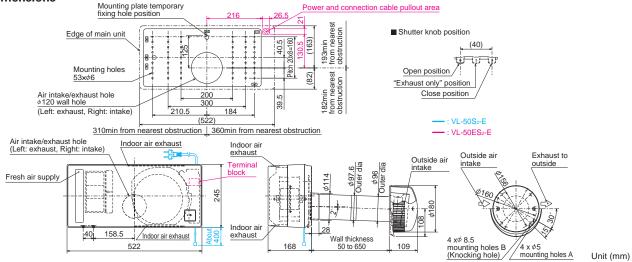
## **Residential Lossnay Specifications**

### Model: VL-50S<sub>2</sub>-E (Pull-Switch Model) and VL-50ES<sub>2</sub>-E (Wall-Switch Model)

Model		VL-50(E)S <sub>2</sub> -E							
Electrical power supply	220V/50Hz 230V/50Hz 240V/5		240V/50Hz		220V	/60Hz			
Fan speed	High	Low	High	Low	High	Low	High	Low	
Airflow (m <sup>3</sup> /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		С							

\*Figures in the chart were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position.

#### Dimensions

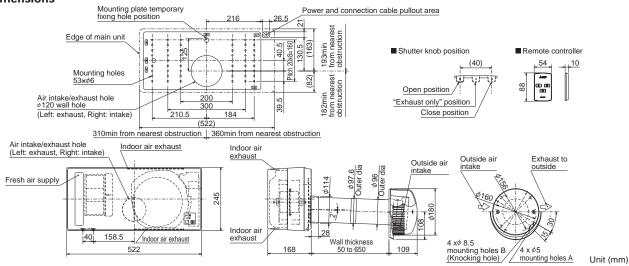


#### Model: VL-50SR<sub>2</sub>-E (Remote Controller Model)

Model		VL-50SR <sub>2</sub> -E							
Electrical power supply	220V,	220V/50Hz		230V/50Hz		/50Hz	220V,	/60Hz	
Fan speed	High	Low	High	Low	High	Low	High	Low	
Airflow (m <sup>3</sup> /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 were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position.

#### Dimensions

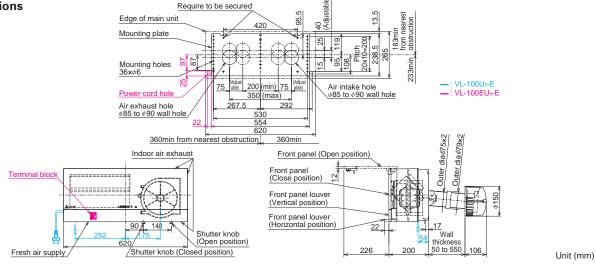


## Model: VL-100U5-E (Pull-Switch Model) and VL-100EU5-E (Wall-Switch Model)

Model		VL-100(E)U₅-E							
Electrical power supply	220	220V/50Hz		230V/50Hz		240V/50Hz		220V/60Hz	
Fan speed	High	Low	High	Low	High	Low	High	Low	
Airflow (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 were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position.

#### Dimensions



## **Optional Parts**

### Optional Parts for VL-50(E)S<sub>2</sub>-E and VL-50SR<sub>2</sub>-E

Filter, Extension Pipe and Stainless Hood

Туре	Replacement Filter	High Efficiency Filter	Extension Pipe	Joint	Stainless Hood
Design			3		
Model	P-50F2-E	P-50HF2-E	P-50P-E	P-50PJ-E	P-50VSQ5-E
Feature	-	_	Total length when connected to the joint is 350mm.	Joint for extension pipe	Stylish stainless hood
Classification (EN779:2012)	G3	-	-	_	_
Classification (ISO16890)	Coarse 35%	ePM10 75%	-	_	_

## Optional Parts for VL-100(E)U5-E

Filter and Extension Pipe

Туре	Replacement Filter	High Efficiency Filter	Extension Pipe	Joint	
Design				$\bigcirc$ $\bigcirc$	
Model	P-100F₅-E	P-100HF5-E	P-100P-E	P-100PJ-E	
Feature	-	-	Total length when connected to the joint is 300mm.	<ul> <li>Joint for extension pipe</li> <li>Screw-in method</li> </ul>	
Classification (EN779:2012)	G3	M6	-	-	
Classification (ISO16890)	Coarse 35%	ePM10 70%	-	-	

## 

- 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.

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