

SPLIT-TYPE AIR CONDITIONERS

itsubishi lectric



Full Product Line Catalogue

2018

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

Core Environmental Policy

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

Environmental Vision 2021

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

Preventing Global Warming

- Reduce CO₂ emissions from product usage by 30%
- Reduce total CO₂ emissions from production by 30%
 Aim to reduce CO₂ 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.

Comparison of Global Warming **Potential**

2088

Global warming otential approx

R410A

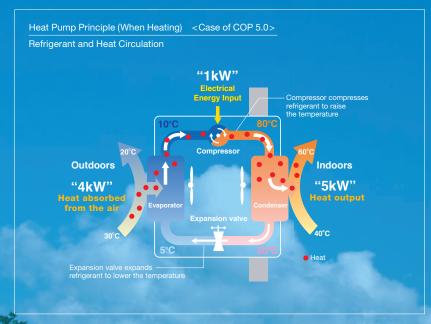
R32

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



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.

Part To	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 room can be detected, energy-saving operation is adjusted or the power is turned off automatically. Efficient air conditioning with less waste is realized.
3. Flash Injection	Achieves high heating capacity even at low temperatures, plus faster start-up compared to conventional inverters.	Expands the region covered by heat pump heating system.

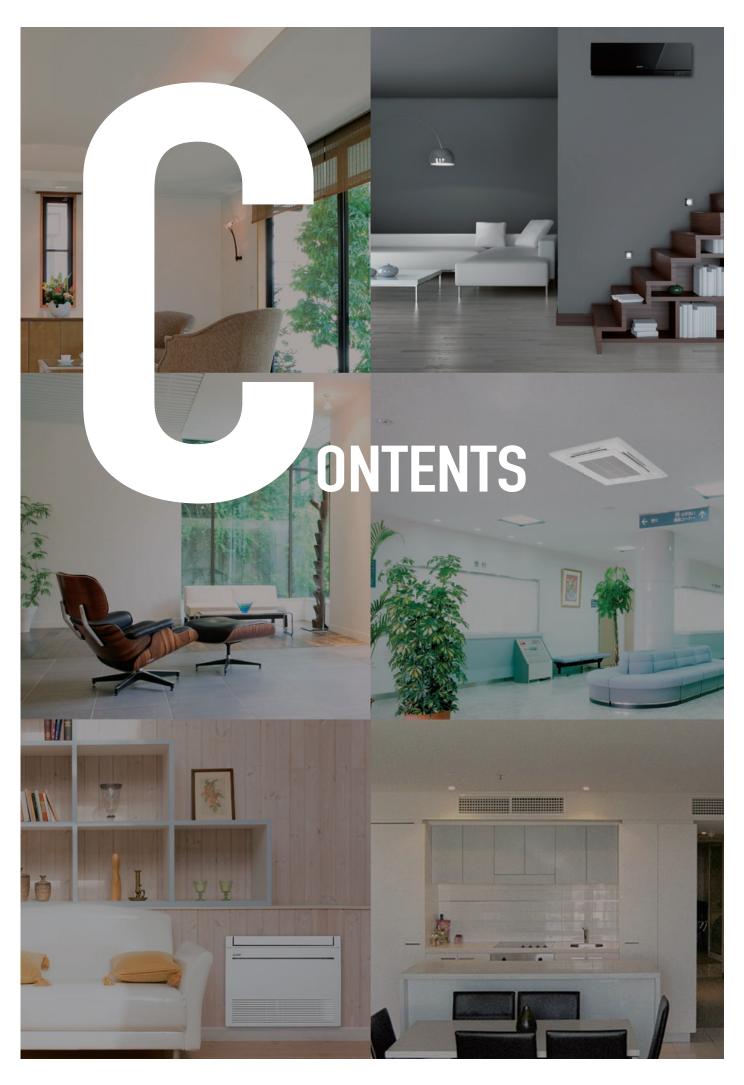
Creating a Recycling-Based Society

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

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

Ensuring Harmony with Nature / Fostering Environmental Awareness

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



Air Conditioners

New releases in 2018	005-006
LINE-UP	007-010
M SERIES	011-046
S SERIES	047-054
P SERIES	055-088
MULTI SPLIT SERIES	089-104
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New release

MSZ-A SERIES





MSZ-AP15/20VF P.19

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

MLZ-KP SERIES



MLZ-KP25/35/50VF P.41

P SERIES Eco-conscious Power Inverter







PLA-ZM35/50/60/71/100/125/140EA P.59



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

PKA-M35/50HA(L)

PKA-M60/71/100KA(L)

R32 R410A

PUZ-ZM35/50VKA P.57











PUZ-ZM60/71VHA P.57

PUZ-ZM100/125/140V(Y)KA P.57

P.**74**



P SERIES Standard Inverter

R410A



MXZ SERIES

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





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

R32



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

PUMY SERIES

R410A



ATW SERIES

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



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

LINE-UP

M SERIES

Model Nan		1.5kW	1.8kW	2.0kW	2.2kW	2.5kW	3.5kW	4.2kW	5.0kW	6.0kW	7.1kW	Page
Wiodel Ival	ne	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	ruge
	MSZ-L Series R32 R410A 11		Multi connection only			W-V-R-B SINGLE	W-Y-R-B SINGLE		W-V-R-B SINGLE	W-V-R-B SINGLE		13
	MSZ-A Series MSZ-AP15-20VF	Multi connection only		Multi connection only								19
	R410A *1					SINGLE	SINGLE	SINGLE	SINGLE			19
	MSZ-F Series					SINGLE	SINGLE		SINGLE			25
	MSZ-E Series R32 *2 R410A		W-S-B Multi connection only		W-S-B Multi connection only	W-S-B SINGLE H	W-S-B SINGLE H	W-S-B SINGLE	W-S-B SINGLE			27
Wall- mounted	MSZ-S Series MSZ-SF15/20VA	Multi connection only		Multi connection only								29
mounted	MSZ-SF25/35/42/50VE3					SINGLE	SINGLE	SINGLE	SINGLE			29
	MSZ-G Series									SINGLE	SINGLE	29
	MSZ-W Series					SINGLE	SINGLE					33
	MSZ-D Series R410A					SINGLE	SINGLE					35
	MSZ-H Series MSZ-HJ60/71 R410A MSZ-HJ25/35/50					SINGLE	SINGLE		SINGLE	SINGLE	SINGLE	37
Compact floor	MFZ Series R410A					SINGLE	SINGLE		SINGLE			39
1-way cassette	MLZ Series R32 R410A					Multi connection only	Multi connection only		Multi connection only			41
floor 1-way	MFZ Series R410A MLZ Series R32	onnection.	Н:	Outdoor ui	hit with free	SINGLE Multi connection only	SINGLE Multi connection only	is available	SINGLE Multi connection only	SINGLE	SINGLE	

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.

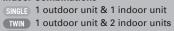
INVERTER Models

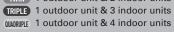
Model Nan	Model Name		2.5kW 1-phase	3.5kW 1-phase	5.0kW 1-phase	6.0kW 1-phase	7.1kW 1-phase	10.0kW 1- & 3-phase	12.5kW 1- & 3-phase	14.0kW 1- & 3-phase	Page
2 x 2 cassette	SLZ Series R32 R410A	Multi connection only	SINGLE	SINGLE	SINGLE	SINGLE	*1 TWIN	TWIN *1 TRIPLE	TWIN *1 TRIPLE *1 QUARDRUPLE	*1 TRIPLE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

^{*1} Only for R410A connection

^{*1:} R410A is for Multi connection. *2: R32 is for MXZ connection.

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





P SERIES

Eco-conscious Power Inverter Models

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

POWER INVERTER Models / STANDARD INVERTER Models

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

* Power Inverter Models only

LINE-UP

MXZ SERIES

INVERTER Models

Model Name		Capacity Class	Page
up to 2 indoor units MXZ-2F33VF	0	3.3kW <1-phase>	91
up to 2 indoor units MXZ-2F42VF	0	4.2kW <1-phase>	91
up to 2 indoor units MXZ-2F53VF(H)	0	5.3kW <1-phase>	91
up to 3 indoor units MXZ-3F54VF	0	5.4kW <1-phase>	91
up to 3 indoor units MXZ-3F68VF	0	6.8kW <1-phase>	91
up to 4 indoor units MXZ-4F72VF	0	7.2kW <1-phase>	91

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

PUMY SERIES

INVERTER Models

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



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

POWERFUL HEATING SERIES

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

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

AIR TO WATER SERIES



		OUTDOOR UNIT	
ackaged type	Small capacity (Under 5kW)*	Medium capacity (7.5kW-14kW)*	Large capacity (≥16kW)*
ZUBADAN		P.U-7-4W112/14D	
POWER INVERTER	PU-IZ-WSO	Coming soon PUNZ-W85 PUNZ-W12	
Split type	Small capacity (Under 5kW)*	Medium capacity (7.5kW-14kW)*	Large capacity (≥16kW)*
ZUBADAN New Goodration		PUHZ-SHW80/12AA PUHZ-SHW80/12/140	PH4Z-SHW230
POWER INVERTER	PUHZ:SW50	PUHZ-SW75 PUHZ-SW75/100AA PUHZ-SW100/120	PUHZ-SM160/200
Eco Inverter	SUHZ-SW45		
ATA/ATW łybrid system	Small capacity (Under 5kW)*	Medium capacity (7.5kW-14kW)*	Large capacity (≥16kW)*
Mr.SLIM+		PUIC-FRP71	
PUMY + ecodan		8	





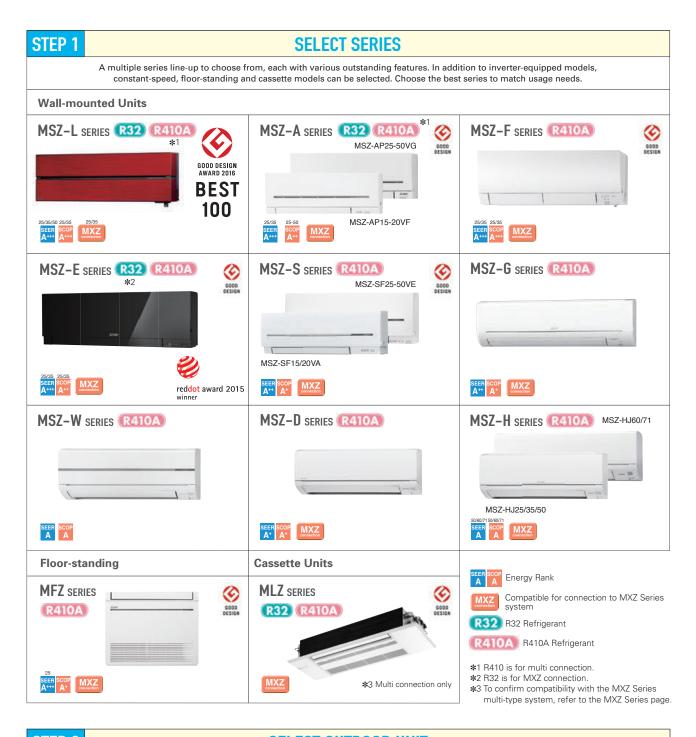






SELECTION

Choose the model that best matches room conditions.





SELECT OUTDOOR UNIT

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

Heater Installed

MUZ-AP25/35/42/50VGH MUZ-EF25/35VEH MUZ-SF25/35/42/50VEH



MUZ-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)
- 2) Areas where dew forms easily (in the mountains, valleys(surrounded by mountains), near a forest, near unfrozen lakes, ponds, rivers or hot springs), or areas with snowfall

To prevent water from freezing in the base, it is recommended that a unit with a built-in heater be purchased. Please ask your dealer representative about the best model for you.



MSZ-



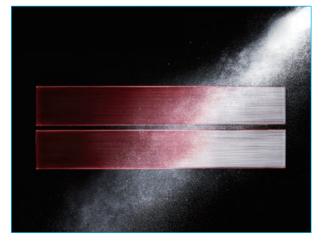


Developed to complement modern interior room décor, the LN Series is available in four colours specially chosen to blend in naturally wherever installed. Not only the sophisticated design, but also the optimum energy efficiency and operational comfort add even more value to this series.



Luminous and Luxurious Design

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



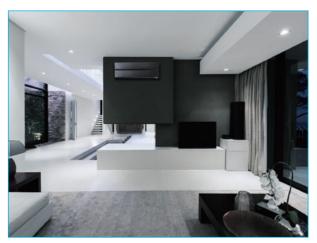
Master craftsmanship painting technology has resulted in a refined design, giving the finish deep colour and a premium quality feel.



Pearl White blends in with any interior.



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



Onyx Black matches darker interiors, creating a comfortable environment.

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







Natural

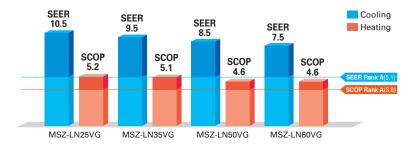
High Energy Efficiency





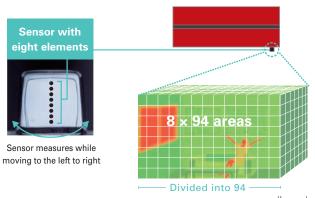


Optimum cooling/heating performance is another feature for the LN series. Models from capacities 25 to 50 have achieved the "Rank A+++" for SEER, and models for capacities 25 and 35 have achieved the "Rank A+++" for SCOP as well.



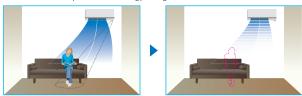
3D i-see Sensor

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



No occupancy energy-saving mode

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



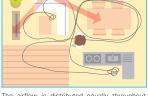
The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60 minutes.

Indirect Airflow

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



Even Airflow *LN Series only Normal swing mode



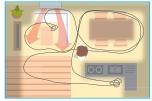
The airflow is distributed equally throughout

Direct Airflow

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



Even airflow mode



The 3D i-see sensor memorizes human movedistributes airfloy

No occupany Auto-OFF mode *LN Series only

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

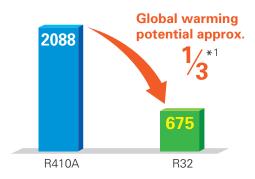




R32 Refrigerant

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

Comparison of Global Warming Potential



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

Plasma Quad Plus

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

Bacteria



Test results have confirmed that Plasma Quad Plus neutralizes 99% of bacteria in 162 minutes in a 25m³ test space.

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

Viruses



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

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

Molds



Test results have confirmed that Plasma Quad Plus neutralizes 99% of mold in 135 minutes in a $25 \mathrm{m}^3$ test space.

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

Allergens



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

<Test No.> ITEA Report No. T1606028

PM2.5



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

<In-company investigation>

Dust



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

<Test No.> ITEA Report No. T1606028

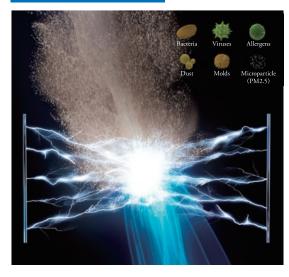
Model	Name	Method	Bacteria	Viruses	Molds	Allergens	Dust	PM2.5*
FH Series	Plasma Quad	One-Stage Plasma	А	А	В	В	С	
LN Series	Plasma Quad Plus	Two-Stage Plasma	А	А	А	А	А	А

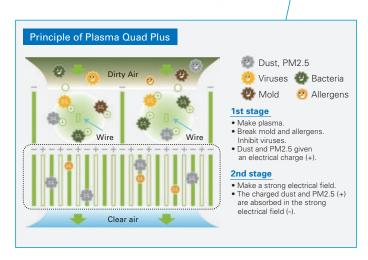
- A: Highly effective
- B: Effective
- C: Partially effective

*PM2.5

Particles smaller than 2.5µm

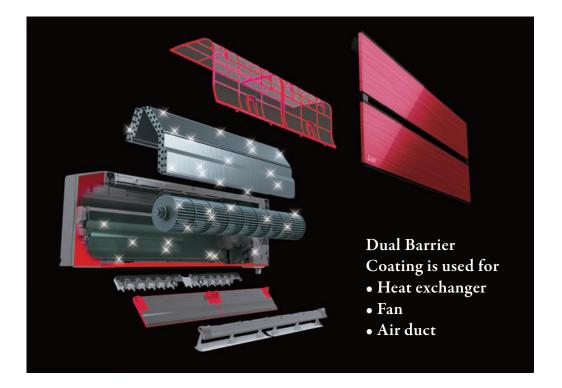
Image of Plasma Quad Plus





Dual Barrier Coating

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



State-of-the-art coating technology

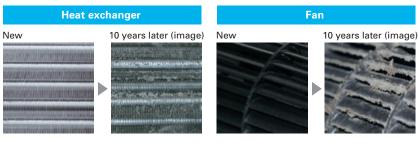
Dirt is generally classified into two groups: hydrophilic dirt such as fiber dust and sand dust, and hydrophobic dirt such as oil and cigarette smoke. Mitsubishi Electric's dual barrier coating works as a two-barrier coating with blended "fluorine particles" that prevent hydrophilic dirt penetration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



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







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

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

Double Flap

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

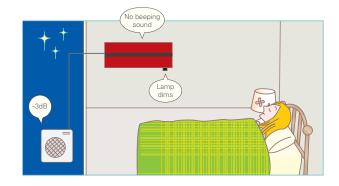




Night Mode

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

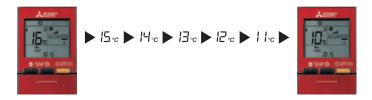
- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will drop to 3dB lower than the rated operating noise specification.



10°C Heating

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

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



Quiet Operation

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



Built-in Wi-Fi Interface

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

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



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





















MUZ-LN50VG





















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

















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























ow Temp Cooling	Optional	Group Control Optional	M-NET connection Optional	Wi-Fi)) Interface	connection 25/35	10°C	Indoor	Night	Cleaning-free, pipe reuse	Hare connection	Self Diagnosis	Failure Recall	

Type	уре				Inverter Heat Pump			
Indoor U	nit			MSZ-LN18VG (W) (V) (R) (B)	MSZ-LN25VG (W) (V) (R) (B)	MSZ-LN35VG (W) (V) (R) (B)	MSZ-LN50VG (W) (V) (R) (B)	MSZ-LN60VG (W) (V) (R) (B)
Outdoor	Unit			for MXZ connection	MUZ-LN25VG	MUZ-LN35VG	MUZ-LN50VG	MUZ-LN60VG
Refrigera	nt				Sir	ngle: R32(*1) / Multi: R410A or R32	2(*1)	
Power	Source					Outdoor Power Supply		
Supply	Outdoor (V / Ph	250 / Hz \				230 / Single / 50		
	Design load	uoo / 112 /	kW	_	2.5	3.5	5.0	6.1
	Annual electricity	concumption (*2)	kWh/a		83	128	205	285
	SEER (*4)	Consumption	KVVII/a		10.5	9.5	8.5	7.5
Cooling	SLLN	Energy efficiency class			A+++	A+++	A+++	A++
Cooling		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
		-	kW		0.485	0.8 - 4.0	1.0 - 6.0	1.4 - 6.9
	Total Input	Rated						
	Design load		kW	-	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	6.0(-10°C)
	Declared	at reference design temperature	kW		3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	6.0(-10°C)
	Capacity	at bivalent temperature	kW		3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	6.0(-10°C)
		at operation limit temperature	kW	-	2.5(-15°C)	3.2(-15°C)	4.2(-15°C)	6.0(-15°C)
Heating	Back up heating		kW	_	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)
(Average	Annual electricity	consumption (*2)	kWh/a	_	794	974	1369	1826
Season)(*5)	SCOP (*4)			_	5.2	5.1	4.6	4.6
		Energy efficiency class		-	A+++	A+++	A++	A++
	Capacity	Rated	kW	-	3.2	4.0	6.0	6.8
	Сараспу	Min-Max	kW	-	0.8 - 5.4	1.0 - 6.3	1.0 - 8.2	1.8 - 9.3
	Total Input	Rated	kW	-	0.580	0.800	1.480	1.810
Operatin	g Current (Max)		Α	-	7.1	9.9	13.9	15.2
	Input	Rated	kW	0.029	0.029	0.029	0.034	0.040
	Operating Curre	nt(Max)	Α	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	J.	kg	15.5	15.5	15.5	15.5	15.5
Indoor	Air Volume (SLo-Lo-	Cooling	m³/min	4.3 - 5.8 - 7.1 - 8.8 - 11.9	4.3 - 5.8 - 7.1 - 8.8 - 11.9	4.3 - 5.8 - 7.1 - 8.8 - 12.8	5.7 - 7.6 - 8.8 - 10.6 - 13.9	7.1 - 8.8 - 10.6 - 12.7 - 15.7
Unit	Mid-Hi-SHi (+3) (Dry/Wet))	Heating	m³/min	4.0 - 5.7 - 7.1 - 8.5 - 14.4	4.0 - 5.7 - 7.1 - 8.5 - 14.4	4.3 - 5.7 - 7.1 - 8.5 - 13.7	5.4 - 6.4 - 8.5 - 10.7 - 15.7	6.6 - 9.5 - 11.5 - 13.6 - 15.7
	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 - 36 - 45	19 - 24 - 29 - 36 - 45	19 - 24 - 29 - 36 - 45	25 - 29 - 34 - 39 - 47	29 - 37 - 41 - 45 - 49
	Sound Level (PWL)	Cooling	dB(A)	58	58	58	60	65
	Dimensions	H*W*D	mm		550-800-285	550-800-285	714-800-285	880-840-330
	Weight		kg	=	35	35	40	55
	_	Cooling	m³/min	-	31.4	31.4	40.0	50.1
	Air Volume	Heating	m³/min		26.6	31.4	40.5	51.3
Outdoor		Cooling	dB(A)		46	49	40.5	55
Unit	Sound Level (SPL)				49	50	54	
	Sound Level (PWL)	Heating Cooling	dB(A)	<u> </u>	49 60	61	64	55 65
	. ,				6.8			
	Operating Curre	nt (wax)	A	=		9.6	13.5	14.8
	Breaker Size		Α	-	10	10	16	16
Ext.	Diameter	Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7
Piping	Max.Length	Out-In	m		20	20	20	30
	Max.Height	Out-In	m	=	12	12	12	15
	eed Operating	Cooling	°C		-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
Range (C	Outdoor)	Heating	°C	_	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 6482 is 675 in the IPCC 4th Assessment Report.

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

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

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



MSZ-A







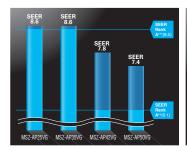
MSZ-AP25/35/42/50VG

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

High energy saving



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







Compact and stylish

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







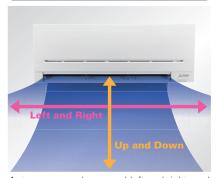


Evolved comfortable convenience function

Horizontal Airflow

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

Auto Vane Control



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

The Function



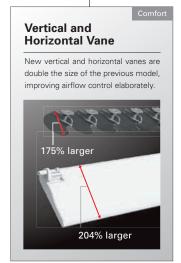


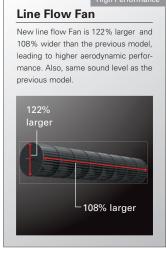


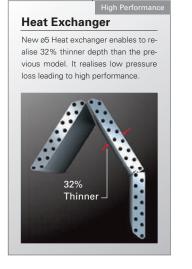
*Only for 25/35/42/50 models.

High performance and compact size are realised by refining all parts









"Weekly Timer"



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

■ Example Operation Pattern (Winter/Heating mode)

	Mor	n.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
6:00	ON 2	20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
				Automatically change	s to high-power opera	tion at wake-up time	I	
8:00								
10:00	0.5	_	055	0.55	0.55	055	ON 4000	ON 4000
15:00	OF	+	OFF	OFF	OFF	OFF	ON 18°C Midday is warmer,	ON 18°C
14:00	L		Automatic	ally turned off during v	vork hours		so the temperatur	
0.00								
15:00								
18:00	ON 2	20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
20:00			Automatically turn	ns on, synchronized wi	th arrival at home		Automatically raises ten	nperature setting to de-air temperature is low
22:00	L		,	,,,			materi time when outsit	de-all temperature is low
(during sleeping hours)	ON 1	IS°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
	OIV I	10 0				ergy-saving operation a		OIV 18 C
			710101110	,				

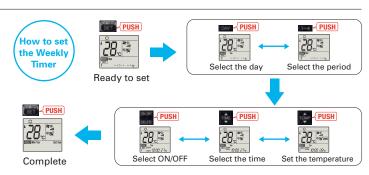
Settings

Pattern Settings: Input up to four settings for each day

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

■ Easy set-up using dedicated buttons





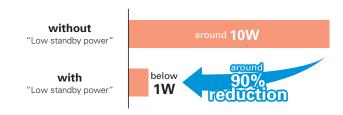
- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired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

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

 •When "Weekly Timer" is set, temperature can not be set 10°C. (only for 15/20 models)

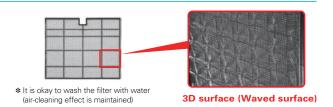
Low Standby Power

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



Air Purifying Filter

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

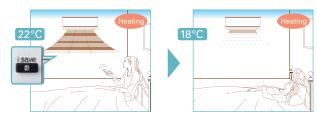


(MSZ-AP25/35/42/50)

"i save" Mode



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



* Temperature can be preset to 10°C when heating in the "i-save" mode. (only for 15/20 models)

Outdoor Units for Cold Region

(MSZ-AP25/35/42/50)

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



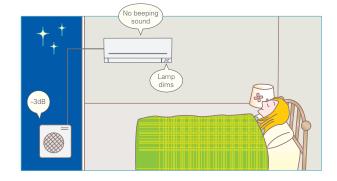
Night Mode

(MSZ-AP25/35/42/50)



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

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



Quiet Operation

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



Built-in Wi-Fi Interface

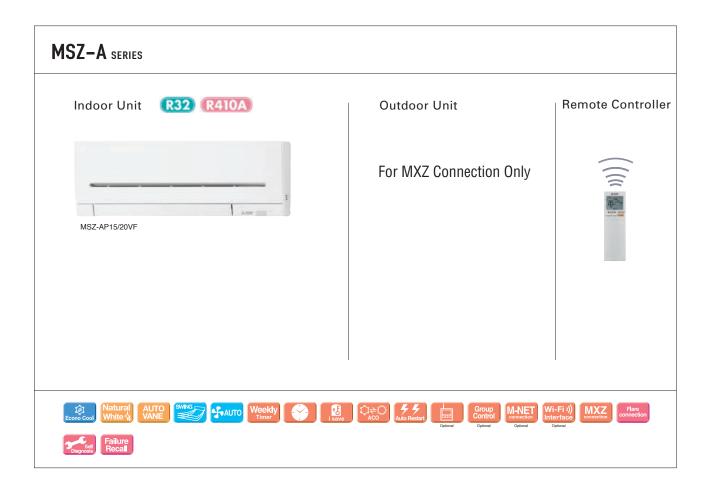
(MSZ-AP25/35/42/50VGK)



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

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

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



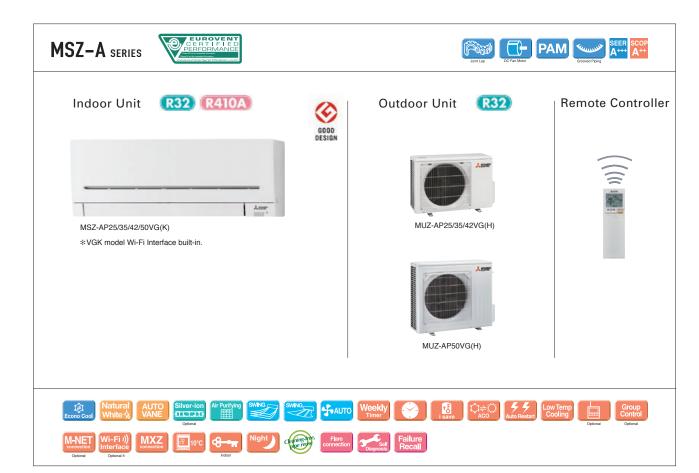
Гуре						Inverter H	leat Pump						
ndoor Ur	nit			MSZ-AP15VF	MSZ-AP20VF	MSZ-AP25VG(K)	MSZ-AP25VG(K)	MSZ-AP35VG(K)	MSZ-AP35VG(K)				
Outdoor l	Jnit			for MXZ o	connection	MUZ-AP25VG	MUZ-AP25VGH	MUZ-AP35VG	MUZ-AP35VGH				
Refrigera	nt			Single: R32 ⁽¹⁾ / Multi: R410A or R32 ⁽¹⁾									
ower	Source			Outdoor Power supply									
Supply	Outdoor (V/Ph	ase / Hz)		230/Single/50									
	Design load		kW	-	-	2.5	2.5	3.5	3.5				
	Annual electricity	consumption (*2)	kWh/a	-	-	101	101	142	142				
	SEER (*4)			-	-	8.6	8.6	8.6	8.6				
Cooling		Energy efficiency class		-	-	A+++	A+++	A+++	A+++				
		Rated	kW	-	-	2.5	2.5	3.5	3.5				
	Capacity	Min-Max	kW	-	-	0.9-3.4	0.9-3.4	1.1-3.8	1.1-3.8				
	Total Input	Rated	kW	-	-	0.600	0.600	0.990	0.990				
	Design load		kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)				
		at reference design temperature	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)				
	Declared	at bivalent temperature	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)				
	Capacity	at operation limit temperature	kW	-	-	2.4 (-15°C)	2.2 (-20°C)	2.6 (-15°C)	2.4 (-20°C)				
leating	Back up heating		kW	-	-	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)				
verage	Annual electricity	consumption (*2)	kWh/a	-	-	698	703	862	873				
Season)(*5)	SCOP (*4)	<u> </u>		-	-	4.8	4.7	4.7	4.6				
		Energy efficiency class		-	-	A++	A++	A++	A++				
		Rated	kW	-	-	3.2	3.2	4.0	4.0				
	Capacity	Min-Max	kW	-	-	1.0-4.1	1.0-4.1	1.3-4.6	1.3-4.6				
	Total Input	Rated	kW	-	-	0.780	0.780	1.030	1.030				
peratin	g Current (Max)		A	-	-	7.1	7.1	8.5	8,5				
	Input	Rated	kW	0.017	0.019	0.026	0.026	0.026	0.026				
	Operating Curre	nt(Max)	А	0.17	0.19	0.3	0.3	0.3	0.3				
	Dimensions	H*W*D	mm	250-760-178	250-760-178	299-798-219	299-798-219	299-798-219	299-798-219				
	Weight		kg	8.2	8.2	10.5	10.5	10.5	10.5				
ndoor	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 - 1				
nit	Mid-Hi-SHi(*3)(Dry/Wet))	Heating	m³/min	3.7 - 4.4 - 5.0 - 6.0 - 6.8	3.7 - 4.4 - 5.0 - 6.0 - 7.3	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 - 1				
	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 - 4				
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 - 24 - 34 - 39 - 45	19 - 24 - 34 - 39 - 45	19 - 24 - 31 - 38 - 45	19 - 24 - 31 - 38 - 4				
	Sound Level (PWL)	Cooling	dB(A)	59	60	57	57	57	57				
	Dimensions	H*W*D	mm	=	-	550-800-285	550-800-285	550-800-285	550-800-285				
	Weight		kg	-	-	31	31	31	31				
	4	Cooling	m³/min	-	-	32.2	32.2	32.2	32.2				
	Air Volume	Heating	m³/min	-	-	29.8	29.8	33.8	33.8				
utdoor		Cooling	dB(A)	-	-	47	47	49	49				
nit	Sound Level (SPL)	Heating	dB(A)	-	-	48	48	50	50				
	Sound Level (PWL)	Cooling	dB(A)	-	-	59	59	61	61				
	Operating Curre	nt (Max)	A	-	-	6.8	6.8	8.2	8.2				
	Breaker Size		А	-	-	10	10	10	10				
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52				
xt.	Max.Length	Out-In	m	-	-	20	20	20	20				
iping	Max.Height	Out-In	m	-	-	12	12	12	12				
auarante	ed Operating	Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46				
ange (Outdoor)	Heating	°C	_	_	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24					

⁽¹⁾ Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 682 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) SET, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

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



Туре				Inverter Heat Pump								
ndoor Ur	nit			MSZ-AP42VG(K)	MSZ-AP42VG(K)	MSZ-AP50VG(K)	MSZ-AP50VG(K)					
Outdoor I	Jnit			MUZ-AP42VG	MUZ-AP42VGH	MUZ-AP50VG	MUZ-AP50VGH					
Refrigera	nt				Single: R32 ⁽¹⁾ / Mu	llti: R410A or R32 ^(*1)						
Power	Source				Outdoor P	ower supply						
Supply	Outdoor (V/Ph	ase / Hz)			230/Si	ingle/50						
	Design load		kW	4.2	4.2	5.0	5.0					
	Annual electricity	consumption (*2)	kWh/a	188	188	236	236					
	SEER (*4)			7.8	7.8	7.4	7.4					
Cooling		Energy efficiency class		A++	A++	A++	A++					
	0	Rated	kW	4.2 4.2		5.0	5.0					
	Capacity	Min-Max	kW	0.9-4.5	0.9-4.5	1.4-5.4	1.4-5.4					
	Total Input	Rated	kW	1.300	1.300	1.550	1.550					
	Design load		kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)					
		at reference design temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)					
	Declared Capacity	at bivalent temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)					
	Сарасіту	at operation limit temperature	kW	4.2 (-15°C)	3.8 (-20°C)	4.7 (-15°C)	4.2 (-20°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	1120	1134	1250	1275					
eason)(*5)	SCOP (*4)			4.7	4.6	4.7	4.6					
	Energy efficiency class			A++	A++	A++	A++					
		Rated	kW	5.4	5.4	5.8	5.8					
	Capacity	Min-Max	kW	1.3-6.0	1.3-6.0	1.4-7.3	1.4-7.3					
-	Total Input	Rated	kW	1.490	1.490	1.600	1.600					
peratin	g Current (Max)		A	9.9	9.9	13.6	13.6					
	Input	Rated	kW	0.032	0.032	0.032	0.032					
	Operating Curre	nt(Max)	А	0.3	0.3	0.3	0.3					
	Dimensions H*W*D		mm	299-798-219	299-798-219	299-798-219	299-798-219					
	Weight		kg	10.5	10.5	10.5	10.5					
door	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					
nit	Mid-Hi-SHi ^(*3) (Dry/Wet))	Heating	m³/min	5.3 - 6.1 - 7.7 - 9.4 - 14.0	5.3 - 6.1 - 7.7 - 9.4 - 14.0	5.6 - 6.5 - 8.2 - 10.0 - 14.0	5.6 - 6.5 - 8.2 - 10.0 - 14.0					
	Sound Level (SPL)	Cooling	dB(A)	21 - 29 - 34 - 38 - 42	21 - 29 - 34 - 38 - 42	28 - 33 - 36 - 40 - 44	28 - 33 - 36 - 40 - 44					
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	21 - 29 - 35 - 40 - 45	21 - 29 - 35 - 40 - 45	28 - 33 - 38 - 43 - 48	28 - 33 - 38 - 43 - 48					
	Sound Level (PWL)	Cooling	dB(A)	57	57	58	58					
	Dimensions	H*W*D	mm	550-800-285	550-800-285	714-800-285	714-800-285					
	Weight		kg	35	35	40	40					
		Cooling	m³/min	30.4	30.4	40.5	40.5					
	Air Volume	Heating	m³/min	32.7	32.7	40.5	40.5					
utdoor nit		Cooling	dB(A)	50	50	52	52					
nit	Sound Level (SPL)	Heating	dB(A)	51	51	52	52					
	Sound Level (PWL)	Cooling	dB(A)	61	61	64	64					
	Operating Curre	nt (Max)	A	9.6	9.6	13.3	13.3					
	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 / 9.52					
xt.	Max.Length	Out-In	m	20	20	20	20					
iping	Max.Height	Out-In	m	12	12	12	12					
auarante	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46					
		Heating	°C	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24					

^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 632 is 675 in the IPCC 4th Assessment Report.

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

(3) SHI: Super High

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

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



MSZ-F SERIES

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

(R410A

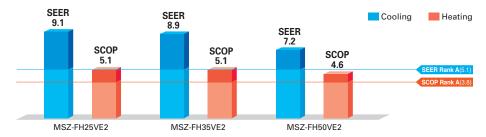






High Energy Efficiency

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



3D i-see Sensor

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

Indirect Airflow

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

Direct Airflow

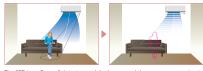
This setting can be used to directly target airflow at people such as for immediate comfort when coming indoors on a hot (cold) day.





Absence Detection

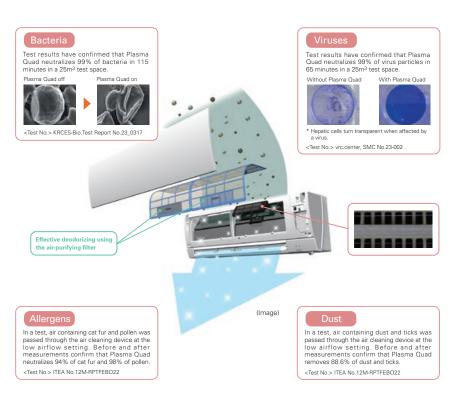
The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.

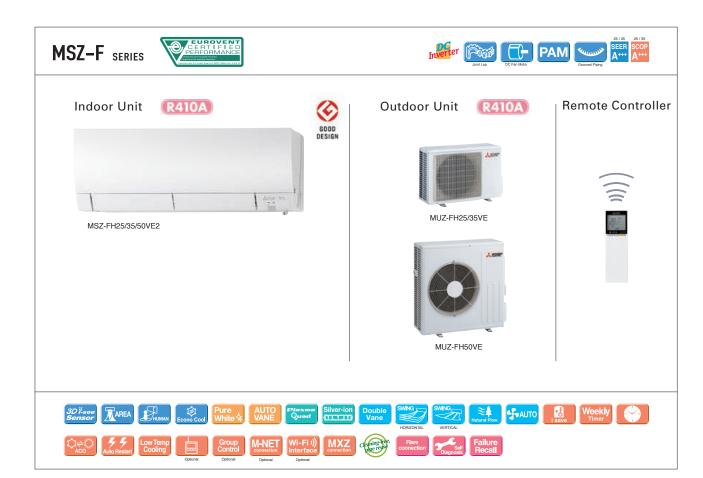


The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60

Plasma Quad

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





/pe					Inverter Heat Pump	
door Ur	nit			MSZ-FH25VE2	MSZ-FH35VE2	MSZ-FH50VE2
utdoor	Unit			MUZ-FH25VE	MUZ-FH35VE	MUZ-FH50VE
efrigera	nt				R410A ^(*1)	
wer	Source				Outdoor Power supply	
pply	Outdoor (V/Ph	ase / Hz)			230/Single/50	
	Design load		kW	2.5	3.5	5.0
	Annual electricity	consumption (*2)	kWh/a	96	138	244
	SEER (14)			9.1	8.9	7.2
oling		Energy efficiency class	3	A+++	A+++	A++
	Capacity	Rated	kW	2.5	3.5	5.0
	Capacity	Min-Max	kW	1.4-3.5	0.8-4.0	1.9-6.0
	Total Input	Rated	kW	0.485	0.820	1.380
	Design load		kW	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)
	Doolored	at reference design temperature		3.0(-10°C)	3.6(-10°C)	4.5(-10°C)
	Declared Capacity	at bivalent temperature	kW	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)
	Capacity	at operation limit temperature	kW	2.5(-15°C)	3.2(-15°C)	5.2(-15°C)
ting	Back up heating		kW	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)
rage	Annual electricity	consumption (*2)	kWh/a	819	986	1372
on) ^(*5)	SCOP (*4)			5.1	5.1	4.6
		Energy efficiency class	3	A+++	A+++	A++
	Capacity	Rated	kW	3.2	4.0	6.0
L	Capacity	Min-Max	kW	1.8-5.5	1.0-6.3	1.7-8.7
	Total Input	Rated	kW	0.580	0.800	1.480
perating Current (Max)		A	9.6	10.0	14.0	
	Input	Rated	kW	0.029	0.029	0.031
	Operating Curre	perating Current(Max)		0.4	0.4	0.4
	Dimensions	H*W*D	mm	305(+17)-925-234	305(+17)-925-234	305(+17)-925-234
	Weight		kg	13.5	13.5	13.5
oor it	Air Volume (SLo-Lo-	Cooling	m³/min	3.9-4.7-6.3-8.6-11.6	3.9-4.7-6.3-8.6-11.6	6.4-7.4-8.6-10.1-12.4
•	Mid-Hi-SHi ⁽⁺³⁾ (Dry/Wet))	Heating	m³/min	4.0-4.7-6.4-9.2-13.2	4.0-4.7-6.4-9.2-13.2	5.7-7.2-9.0-11.2-14.6
	Sound Level (SPL)	Cooling	dB(A)	20-23-29-36-42	21-24-29-36-42	27-31-35-39-44
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	20-24-29-36-44	21-24-29-36-44	25-29-34-39-46
	Sound Level (PWL)	Cooling	dB(A)	58	58	60
	Dimensions	H*W*D	mm	550-800-285	550-800-285	880-840-330
	Weight		kg	37	37	55
	Air Volume	Cooling	m³/min	31.3	33.6	48.8
door	All Volume	Heating	m³/min	31.3	33.6	51.3
aoor t	Sound Level (SPL)	Cooling	dB(A)	46	49	51
-	. ,	Heating	dB(A)	49	50	54
	Sound Level (PWL)	Cooling	dB(A)	60	61	64
_	Operating Curre	nt (Max)	А	9.2	9.6	13.6
	Breaker Size		A	10	10	16
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35 / 12.7
ing	Max.Length	Out-In	m	20	20	30
y	Max.Height	Out-In	m	12	12	15
arante	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
	ige (Outdoor)	Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24

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

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

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

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





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







reddot award 2015 winner



Stylish Line-up Matches Any Room Décor

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



Energy-efficient Operation



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

Outdoor	Rank A for single connection	Compatibility									
	MUZ-EF25/35VE(H)	MXZ									
Indoor	MUZ-EF42/50VE	2D33VA	2D42VA2	2D53VA2	3E54VA	3E68VA	4E72VA	4E83VA	5E102VA	6D122VA	
MSZ-EF18VE3	_	~	~	~	~	~	~	~	~	~	
MSZ-EF22VE3	-	~	~	~	~	~	~	~	~	~	
MSZ-EF25VE3	A +++/ A++(A++*)	~	~	~	~	~	~	~	~	~	
MSZ-EF35VE3	A +++/ A++(A+*)		~	~	~	~	~	~	~	~	
MSZ-EF42VE3	A++/A++			~	~	~	~	~	~	~	
MSZ-EF50VE3	A ++/A+			~	~	~	~	~	~	~	

Quiet Comfort All Day Long

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



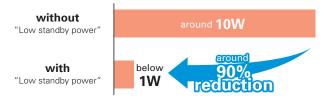
Superior Exterior and Operating Design Concept

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



Low Standby Power

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



Outdoor Units for Cold Region

(25/35)

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





















Indoor Unit







White

Silver

Ø



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



*Soft-dry Cloth is enclosed with Black models.





Remote Controller



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





























4.0 - 4.6 - 6.3 - 8.3 - 10

21 - 24 - 29 - 36 - 42

550-800-28

33.6

49

50

8.2

6.35 / 9.52

5.8 - 6.6 - 7.7 - 8.9 - 10.3

28 - 31 - 35 - 39 - 42

550-800-285

33.6

50

9.2

6.35 / 9.52

5.8 - 6.8 - 7.9 - 9.3 - 11.0

30 - 33 - 36 - 40 - 43

60

880-840-330

44.6

44.6

52

6.35 / 12.7

























4.0 - 4.6 - 6.3 - 8.3 - 10.5

21 - 23 - 29 - 36 - 42

550-800-285

32.2

6.35 / 9.52

4.0 - 4.6 - 6.3 - 8.3 - 10.5

21 - 23 - 29 - 36 - 42

21 - 24 - 29 - 37 - 45

60

30

32.2

47

48

6.35 / 9.52

550-800-2

21 - 24 - 29 - 36 - 42

550-800-285

33.6

50

8.2

6.35 / 9.52

	ing												
гір	iiig	Max.Height	Out-In	m	-	-	12	12	12	12	12	15	
Gu	arante	ed Operating	Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
Rai	nge (O	Outdoor)	Heating	°C	-	-	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24	
	(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO ₂ , over a period of 100 years. Never try to interfere with the refrigerant circu												
)	ourself	or disassemble the p	roduct yourself and always ask	a profess	ional.								

m³/min

dB(A)

dB(A)

mm

kg

m³/min

dB(A)

dB(A)

A

mm

m

Ext. Piping

Air Volume (SLo-Lo-Mid-Hi-SHi^(*3)(Dry/Wet))

Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi^(*3))

Weight

Air Volume

Sound Level (SPL)

Breaker Size Diameter

Max.Length

Sound Level (PWL) Cooling

Sound Level (PWL) Cooling

Operating Current (Max)

Cooling

Cooling

H*W*D

Heating

Cooling

Heating

iguid/Gas

Out-In

Heating

4.0 - 4.6 - 6.3 - 8.3 - 10.5 4.0 - 4.6 - 6.3 - 8.3 - 10.5

21 - 23 - 29 - 36 - 42

60

21 - 23 - 29 - 36 - 42

60

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) SHI: Super high

("4) SERI, 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 Sea ("5) Please see page 63 for heating (warmer season) specifications.

MSZ-S SERIES MSZ-G SERIES

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



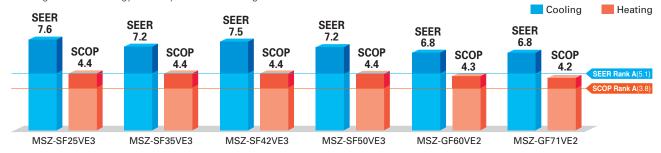
"Rank A++/A+" Energy Savings Achieved for Entire Range of Series







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



Wide Line-up

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







Compact and Stylish

(MSZ-SF15/20VA)

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

Comparison with our previous model GE





Family Design

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

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

*Size may vary.





"Weekly Timer"



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

■ Example Operation Pattern (Winter/Heating mode)

Mon.	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	es to high-power opera	tion at wake-up time		
OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
	Automatic		Midday is warmer, so the temperature	e is set lower		
ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
	Automatically tur		Automatically raises ten match time when outsid	nperature setting to de-air temperature is low		
ON_18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
	Automa	ergy-saving operation a	t night			
	ON 20°C	ON 20°C OFF OFF Automatic ON 20°C ON 20°C Automatically tur ON 18°C ON 18°C	ON 20°C ON 20°C ON 20°C Automatically change OFF OFF OFF Automatically turned off during v ON 20°C ON 20°C ON 20°C Automatically turns on, synchronized wi ON 18°C ON 18°C ON 18°C	ON 20°C ON 20°C ON 20°C ON 20°C Automatically changes to high-power opera OFF OFF OFF Automatically turned off during work hours 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 ON 18°C	ON 20°C ON 20°C ON 20°C ON 20°C ON 20°C Automatically changes to high-power operation at wake-up time 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 ON 18°C ON 18°C	ON 20°C ON 20°C ON 20°C ON 20°C ON 20°C ON 20°C Automatically changes to high-power operation at wake-up time 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 20°C ON 20°C ON 20°C Automatically turns on, synchronized with arrival at home

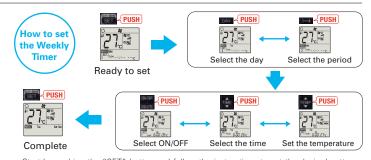
Settings

Pattern Settings: Input up to four settings for each day

 $\textbf{Settings: } \bullet \textbf{Start/Stop operation } \bullet \textbf{Temperature setting} \quad \textbf{*} \textbf{The operation mode cannot be set.}$

■ Easy set-up using dedicated buttons -

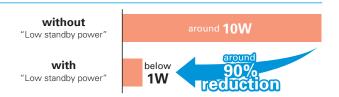




- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired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

Low Standby Power

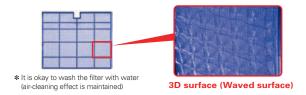
Electrical devices consume standby power even when they are not in actual use. While we obviously strive to reduce power consumption during actual use, reducing this wasted power that cannot be seen is also very important.



Air Purifying Filter

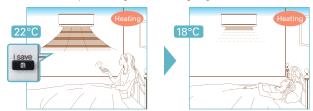
(MSZ-SF25/35/42/50, MSZ-GF60/71)

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



"i save" Mode

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



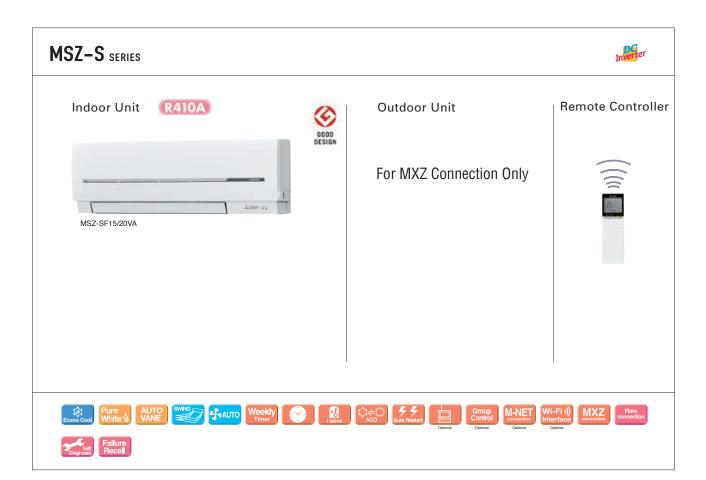
* Temperature can be preset to 10°C when heating in the "i-save" mode.

Outdoor Units for Cold Region

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







Туре				Inverter Heat Pump									
Indoor Ur	nit			MSZ-SF15VA	MSZ-SF20VA	MSZ-SF25VE3	MSZ-SF25VE3	MSZ-SF35VE3	MSZ-SF35VE3				
Outdoor l	Jnit			for MXZ o	onnection	MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH				
Refrigera	nt			R410A ⁽¹⁾									
Power	Source					Outdoor Po	ower supply						
Supply	Outdoor (V/Ph	ase / Hz)		230/Single/50									
	Design load		kW	-	-	2.5	2.5	3.5	3.5				
	Annual electricity	consumption (*2)	kWh/a	-	-	116	116	171	171				
	SEER (*4)			-	-	7.6	7.6	7.2	7.2				
Cooling		Energy efficiency class		-	-	A++	A++	A++	A++				
	0	Rated	kW	-	-	2.5	2.5	3.5	3.5				
	Capacity	Min-Max	kW	-	-	0.9-3.4	0.9-3.4	1.1-3.8	1.1-3.8				
	Total Input	Rated	kW	-	-	0.600	0.600	1.080	1.080				
	Design load		kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)				
		at reference design temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)				
	Declared	at bivalent temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)				
	Capacity	at operation limit temperature	kW	-	-	2.0(-15°C)	1.6(-20°C)	2.2(-15°C)	1.6(-20°C)				
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+				
		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)		А	-	-	8.4	8.4	8.5	8.5				
	Input	Rated	kW	0.017	0.019	0.024	0.024	0.027	0.027				
	Operating Curre	nt(Max)	Α	0.17	0.19	0.2	0.2	0.3	0.3				
	Dimensions	IH*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	Air Volume (SLo-Lo-	Cooling	m³/min	3.5 - 3.9 - 4.6 - 5.5 - 6.4	3.5 - 3.9 - 4.6 - 5.5 - 6.9	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1				
Unit	Mid-Hi-SHi ^(*3) (Dry/Wet))	Heating	m³/min	3.7 - 4.4 - 5.0 - 6.0 - 6.8	3.7 - 4.4 - 5.0 - 6.0 - 7.3	3.0 - 4.1 - 6.7 - 8.2 - 10.3	3.0 - 4.1 - 6.7 - 8.2 - 10.3	3.0 - 4.1 - 6.7 - 8.3 - 11.0	3.0 - 4.1 - 6.7 - 8.3 - 11.0				
	Sound Level (SPL)	Cooling	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19(*6) - 24 - 30 - 36 - 42	19(16) - 24 - 30 - 36 - 42	19(*6) - 24 - 30 - 36 - 42	19 ^(*6) - 24 - 30 - 36 - 42				
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19(18) - 24 - 34 - 39 - 45	19(*6) - 24 - 34 - 39 - 45	19(*6) - 24 - 34 - 40 - 46	19(16) - 24 - 34 - 40 - 46				
	Sound Level (PWL)	Cooling	dB(A)	59	60	57	57	57	57				
	Dimensions	H*W*D	mm	-	-	550-800-285	550-800-285	550-800-285	550-800-285				
	Weight		kg	-	-	31	31	31	31				
		Cooling	m³/min	-	-	31.1	31.1	35.9	35.9				
	Air Volume	Heating	m³/min	-	-	30.7	30.7	35.9	35.9				
Outdoor		Cooling	dB(A)	-	-	47	47	49	49				
Unit	Sound Level (SPL)	Heating	dB(A)	-	-	48	48	50	50				
	Sound Level (PWL)	Cooling	dB(A)	=	-	58	58	62	62				
	Operating Curre		A	=	-	8.2	8.2	8.2	8.2				
	Breaker Size		А	-	-	10	10	10	10				
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52				
Ext.	Max.Length	Out-In	m	=	=	20	20	20	20				
Piping	Max.Height	Out-In	m	=	-	12	12	12	12				
Guarante	ed Operating	Cooling	°C	=	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46				
Range (C		Heating	°C	-	-	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24				
		is to climate change. Refrigera	ak o dala bas		1450								

⁽¹⁾ Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming han 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 disassement bethe product yourself and always ask a professional.

The GWP of R4TOA is 2088 in the IPCC 4th Assessment Report.

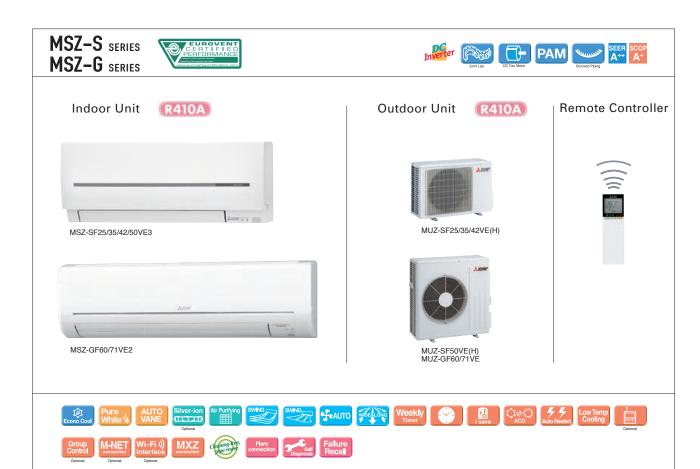
(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SHI: Super High

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

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

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



Туре				Inverter Heat Pump									
Indoor Ur	nit			MSZ-SF42VE3	MSZ-SF42VE3	MSZ-SF50VE3	MSZ-SF50VE3	MSZ-GF60VE2	MSZ-GF71VE2				
Outdoor I	Jnit			MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH	MUZ-GF60VE	MUZ-GF71VE				
Refrigera	nt			R410A ⁽¹⁾									
Power	Source			Outdoor Power supply									
Supply	Outdoor (V/Ph	ase / Hz)		230/Single/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		A++	A++	A++	A++	A++	A++				
	0	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	Į.	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)				
		at reference design temperature	kW	3,8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)				
	Declared	at bivalent temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)				
	Capacity	at operation limit temperature	kW	3.4 (-15°C)	2.2 (-20°C)	3.4 (-15°C)	2.3 (-20°C)	3.7 (-15°C)	5.4 (-15°C)				
Heating	Back up heating	and the same of the same of	kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)				
(Average	Annual electricity		kWh/a	1215	1242	1351	1380	1489	2204				
Season)(*5)	SCOP (*4)			4.4	4.3	4.4	4.3	4.3	4.2				
		Energy efficiency class		A+	A+	A+	A+	A+	A+				
		Rated	kW	5.4	5.4	5.8	5.8	6.8	8.1				
	Capacity	Min-Max	kW	1.3-6.0	1.3-6.0	1.4-7.3	1.4-7.3	2.0-9.3	2.2-9.9				
	Total Input	Rated	kW	1.580	1.580	1.700	1.700	1.810	2.230				
Operation	g Current (Max)	T Late Co	A	9.5	9.5	12.3	12.3	14.5	16.6				
орогани	Input	Rated	kW	0.027	0.027	0.035	0.035	0.062	0.058				
	Operating Curre		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	Air Volume (SLo-Lo-	Cooling	m³/min	4.7 - 5.8 - 6.7 - 7.9 - 9.1	4.7 - 5.8 - 6.7 - 7.9 - 9.1	5.1 - 6.2 - 7.0 - 8.2 - 9.9	5.1 - 6.2 - 7.0 - 8.2 - 9.9	9.8-11.3-13.4-15.6-18.3	9.7-11.5-13.3-15.4-17.8				
Unit	Mid-Hi-SHi ^(*3) (Dry/Wet))	Heating	m³/min	4.7 - 5.8 - 7.2 - 9.1 - 11.4	4.7 - 5.8 - 7.2 - 9.1 - 11.4	5.1 - 6.4 - 8.0 - 9.8 - 12.0	5.1 - 6.4 - 8.0 - 9.8 - 12.0	9.8-11.3-13.4-15.6-18.3	10.2-11.5-13.3-15.4-17.8				
	Sound Level (SPL)	Cooling	dB(A)	26 ⁽¹⁶⁾ - 31 - 34 - 38 - 42	26(16) - 31 - 34 - 38 - 42	28 ⁽⁷⁾ - 33 - 36 - 40 - 45	28 ⁽⁷⁾ - 33 - 36 - 40 - 45	29 - 37 -41 - 45 - 49	30 - 37 - 41 - 45 - 49				
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	26 ⁽¹⁶⁾ - 31 - 36 - 42 - 47	26 ^(*6) - 31 - 36 - 42 - 47	28 ⁽⁷⁾ - 33 - 38 - 43 - 49	28 ⁽⁷⁾ - 33 - 38 - 43 - 49	29 - 37 - 41 - 45 - 49	30 - 37 - 41 - 45 - 49				
	Sound Level (PWL)	Cooling	dB(A)	57	57	58	58	65	65				
	Dimensions	H*W*D	mm	550-800-285	550-800-285	880-840-330	880-840-330	880-840-330	880-840-330				
	Weight		kg	35	35	55	55	50	53				
		Cooling	m³/min	35.2	35.2	44.6	44.6	49.2	50.1				
	Air Volume	Heating	m³/min	33,6	33.6	44.6	44.6	49.2	48.2				
Outdoor		Cooling	dB(A)	50	50	52	52	55	55				
Unit	Sound Level (SPL)	Heating	dB(A)	51	51	52	52	55	55				
	Sound Level (PWL)	Cooling	dB(A)	63	63	65	65	65	65				
	Operating Curre		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.	Max.Length	Out-In	m	20	20	30	30	30	30				
Piping	Max.Height	Out-In	m	12	12	15	15	15	15				
Guarante		Cooling	*C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46				
	Guaranteed Operating Cooling "C Range (Outdoor) Heating "C C			-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24				
							with higher GWP, if leaked to t						

^(**) 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 Gassaemble the product yourself or and always ask a professional. The GWP of FA10A is 2088 in the IPCO 4th Assessment Report.

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

(**3) SHI: Super High

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

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

(**6) For single use: on!) y 268/IA), For multi use (MXZ): 288/IA).

(**7) For single use: on!) y 268/IA), For multi use (MXZ): 308IA).



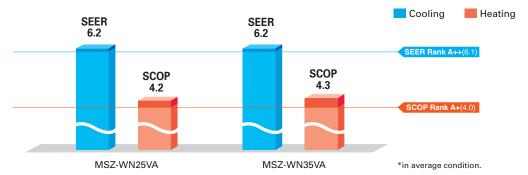
Advanced Inverter Control – Efficient Operation All the Time







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



Wider Heating Operating Range

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



Wi-Fi and System Control

Wi-Fi Interface (Optional)

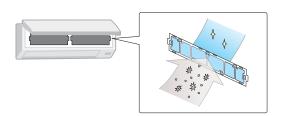
Optional interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.

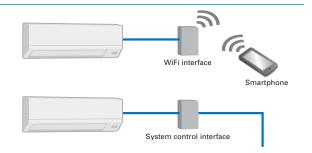
System Control Interface (Optional)

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

Silver-ionized Air Purifying Filter

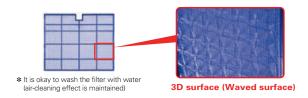
The high performance filter is attached as standard. Captures the bacteria, pollen and other allergens in the air and neutralises them.





Air Purifying Filter

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









Outdoor Unit



R410A

















MUZ-WN25/35VA





































Туре				Inverter h	Heat Pump					
Indoor Ur	nit			MSZ-WN25VA	MSZ-WN35VA					
Outdoor I	Jnit			MUZ-WN25VA	MUZ-WN35VA					
Refrigera	nt				OA ^(*1)					
Power	Source			Indoor Po	wer Supply					
Supply	Outdoor (V/Ph	ase / Hz)		230V/Single/50Hz						
	Design load	·	kW	2.5	3.1					
	Annual electricity	consumption (*2)	kWh/a	141	173					
	SEER (*4)			6.2	6.2					
Cooling		Energy efficiency class	,	A++	A++					
	0	Rated	kW	2.5	3.15					
	Capacity	Min-Max	kW	1.3 - 3.0	1.4 - 3.5					
	Total Input	Rated	kW	0.710	1.020					
	Design load		kW	1.9(-10°C)	2.4(-10°C)					
	Da element	at reference design temperature	kW	1.9(-10°C)	2.4(-10°C)					
	Declared Capacity	at bivalent temperature	kW	1.9(-10°C)	2.4(-10°C)					
	Capacity	at operation limit temperature	kW	1.6(-15°C)	2.0(-15°C)					
Heating	Back up heating		kW	0.0(-10°C)	0.0(-10°C)					
(Average	Annual electricity	consumption (*2)	kWh/a	628	793					
Season)(*5)	SCOP (*4)			4.2	4.3					
		Energy efficiency class	;	A+	A+					
	Capacity	Rated	kW	3.15	3.60					
		Min-Max	kW	0.9 - 3.5	1.1 - 4.1					
	Total Input	Rated	kW	0.850	0.975					
Operatin	g Current (Max)		Α	5.8	6.5					
	Input	Rated	kW	0.020	0.026					
	Operating Current(Max)		A	0.3	0.3					
	Dimensions	H*W*D	mm	290-799-232	290-799-232					
	Weight		kg	9	9					
Indoor Unit	Air Volume (SLo-Lo-	Cooling	m³/min	3.8 - 5.5 - 7.3 - 9.5	3.8 - 5.7 - 7.8 - 11.4					
Oiiii	Mid-Hi-SHi ⁽⁺³⁾ (Dry/Wet))	Heating	m³/min	3.5 - 5.5 - 7.5 - 10.0	3.5 - 5.5 - 7.5 - 10.3					
	Sound Level (SPL)	Cooling	dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 46					
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	23 - 30 - 37 - 43	23 - 30 - 37 - 44					
	Sound Level (PWL)	Cooling	dB(A)	57	60					
	Dimensions	H*W*D	mm	538-699-249	538-699-249					
	Weight		kg	24	25					
	Air Volume	Cooling	m³/min	31.5	31.5					
Outdoor	volunic	Heating	m³/min	31.5	31.5					
Unit	Sound Level (SPL)	Cooling	dB(A)	50	52					
	` ,	Heating	dB(A)	50	52					
	Sound Level (PWL)	Cooling	dB(A)	63	64					
	Operating Curre	nt (Max)	Α	5.5	6.2					
	Breaker Size		Α	10	10					
Ext.	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52					
Piping	Max.Length	Out-In	m	20	20					
- P9	Max.Height	Out-In	m	12	12					
	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46					
Range (C	Outdoor)	Heating	°C	-15 ~ +24	-15 ~ +24					

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

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

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

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



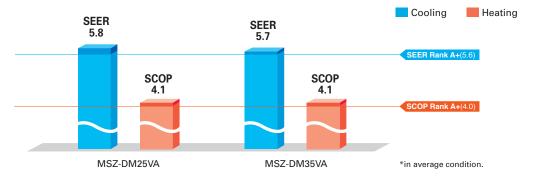
Advanced Inverter Control – Efficient Operation All the Time





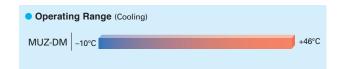


Mitsubishi Electric's cutting-edge inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises an Energy Rank "A+".



Wider Cooling Operating Range

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



Wi-Fi and System Control

Wi-Fi Interface (Optional)

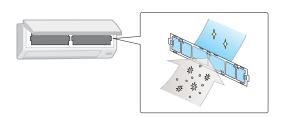
Optional interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.

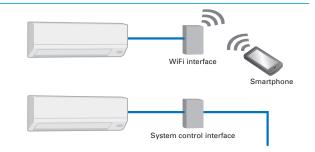
System Control Interface (Optional)

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

Silver-ionized Air Purifying Filter

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

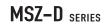




Compact Units

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





















R410A



MSZ-DM25/35VA

Outdoor Unit





MUZ-DM25/35VA

Remote Controller







































Гуре				Inverter H	leat Pump
ndoor Ur	nit			MSZ-DM25VA	MSZ-DM35VA
Outdoor I	Unit			MUZ-DM25VA	MUZ-DM35VA
Refrigera	nt			R41	OA ^(*1)
ower	Source			Indoor Po	wer supply
upply	Outdoor (V/Ph	ase / Hz)		230V/Sir	ngle/50Hz
	Design load		kW	2.5	3.1
	Annual electricity	consumption (*2)	kWh/a	149	190
	SEER (*4)			5.8	5.7
ooling		Energy efficiency class		A ⁺	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)
	Dardawari.	at reference design temperature	kW	1.9 (-10°C)	2.4 (-10°C)
	Declared Capacity	at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)
	Capacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)
eating	Back up heating		kW	0.0 (-10°C)	0.0 (-10°C)
rerage	Annual electricity	consumption (*2)	kWh/a	647	809
ason)(*5)	SCOP (*4)			4.1	4.1
		Energy efficiency class		A ⁺	A ⁺
	0	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
oeratin	g Current (Max)		A	5.8	6.5
	Input	Rated	kW	0.020	0.024
	Operating Curre	nt(Max)	A	0.3	0.3
	Dimensions	H*W*D	mm	290-799-232	290-799-232
	Weight		kg	9	9
door nit	Air Volume (SLo-Lo-	Cooling	m³/min	3.8 - 5.5 - 7.3 - 9.5	3.8 - 5.7 - 7.8 - 10.9
	Mid-Hi-SHi ⁽⁺³⁾ (Dry/Wet))	Heating	m³/min	3.5 - 5.5 - 7.5 - 10.0	3.5 - 5.5 - 7.5 - 10.3
	Sound Level (SPL)	Cooling	dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 45
	(SLo-Lo-Mid-Hi-SHi ^(*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
utdoor	All Volume	Heating	m³/min	31.5	31.5
utaoor nit	Sound Level (SPL)	Cooling	dB(A)	50	51
	. ,	Heating	dB(A)	50	51
	Sound Level (PWL)	Cooling	dB(A)	63	64
	Operating Curre	nt (Max)	A	5.5	6.2
	Breaker Size		A	10	10
ct.	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52
xt. iping	Max.Length	Out-In	m	20	20
-Pang	Max.Height	Out-In	m	12	12
	eed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46
ange (C	Outdoor)	Heating	°C	-10 ~ +24	-10 ~ +24

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

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

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

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



Stylish Design with Flat Panel Front

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



Advanced Inverter Control – Efficient Operation All the Time











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

Silent Operation

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



Long Piping Length

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

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

Operating Range

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



Compact Units

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

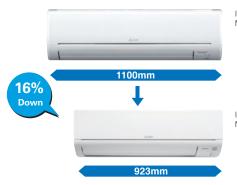
Indoor Unit: MSZ-HJ25/35/50VA

Only 799mm width

Outdoor Unit: MUZ-HJ25/35VA

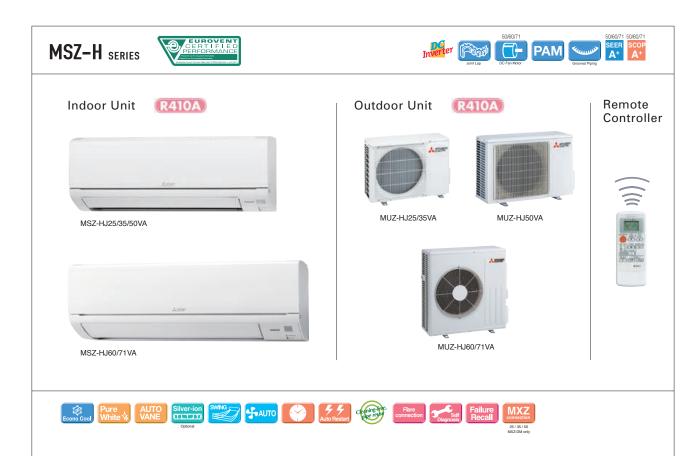
Only 699mm width

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



Indoor Unit: MSZ-GF60/71VE

Indoor Unit: MSZ-HJ60/71VA



Туре					Inverter Heat Pump			
Indoor Ur	nit			MSZ-HJ25VA	MSZ-HJ35VA	MSZ-HJ50VA	MSZ-HJ60VA	MSZ-HJ71VA
Outdoor I	Jnit			MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA	MUZ-HJ60VA	MUZ-HJ71VA
Refrigera	nt					R410A ^(*1)		
Power	Source					Indoor Power supply		
Supply	Outdoor (V/Ph	ase / Hz)				230V/Single/50Hz		
	Design load		kW	2.5	3.1	5.0	6.1	7.1
	Annual electricity	consumption (*2)	kWh/a	171	212	292	354	441
	SEER ('4)			5.1	5.1	6.0	6.0	5.6
Cooling		Energy efficiency class		A	A	A+	A+	A+
	0	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 Capacity	at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
	Capacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
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)
(Average	Annual electricity	consumption (*2)	kWh/a	698	885	1267	1544	1854
Season)(*5)	SCOP (*4)			3.8	3.8	4.2	4.1	4.0
		Energy efficiency class		A	A	A+	A+	A+
		Rated	kW	3.15	3.6	5.4	6.8	8.1
	Capacity	Min-Max	kW	0.9 - 3.5	1.1 - 4.1	1.4 - 6.5	1.5 - 8.4	1.5 - 8.5
	Total Input	Rated	kW	0.870	0.995	1.480	1,970	2,440
Operatin	g Current (Max)		А	5.8	6.5	9.8	12.5	12.5
	Input	Rated	kW	0.020	0.024	0.037	0.055	0.055
	Input Rated Operating Current(Max)		А	0.3	0.3	0.4	0.5	0.5
	Dimensions	H*W*D	mm	290-799-232	290-799-232	290-799-232	305-923-250	305-923-250
	Weight	Į.	kg	9	9	9	13	13
Indoor	Air Volume (SI o-I o-	Cooling	m³/min	3.8 - 5.5 - 7.3 - 9.5	3.8 - 5.7 - 7.8 - 10.9	6.3 - 9.1 - 11.1 - 12.9	9.3 - 12.2 - 15.0 - 19.9	10.0 - 12.2 - 15.0 - 19.9
Unit	Mid-Hi-SHi ^(*3) (Dry/Wet))	Heating	m³/min	3.5 - 5.5 - 7.5 - 10.0	3.5 - 5.5 - 7.5 - 10.3	6.1 - 8.3 - 11.1 - 14.3	9.4 - 12.5 - 16.0 - 19.9	10.3 - 12.7 - 16.4 - 19.9
	Sound Level (SPL)	Cooling	dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 45	28 - 36 - 40 - 45	31 - 38 - 44 - 50	33 - 38 - 44 - 50
	(SLo-Lo-Mid-Hi-SHi(*3))	Heating	dB(A)	23 - 30 - 37 - 43	23 - 30 - 37 - 44	27 - 34 - 41 - 47	31 - 38 - 44 - 49	33 - 38 - 44 - 49
	Sound Level (PWL)	Cooling	dB(A)	57	60	60	65	65
	Dimensions	H*W*D	mm	538-699-249	538-699-249	550-800-285	880-840-330	880-840-330
	Weight	I.	kg	24	25	36	55	55
		Cooling	m³/min	31.5	31.5	36.3	47.9	49.3
	Air Volume	Heating	m³/min	31.5	31.5	34.8	47.9	47.9
Outdoor		Cooling	dB(A)	50	50	50	55	55
Unit	Sound Level (SPL)	Heating	dB(A)	50	50	51	55	55
	Sound Level (PWL)	Cooling	dB(A)	63	64	64	65	66
	Operating Curre		Α	5.5	6.2	9.4	12.0	12.0
	Breaker Size	_ ` '	A	10	10	12	16	16
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/12.7	6.35/15.88	9.52/15.88
Ext.	Max.Length	Out-In	m	20	20	20	30	30
Piping	Max.Height	Out-In	m	12	12	12	15	15
Guarante	ed Operating	Cooling	*C	+15 ~ +46	+15 ~ +46	+15 ~ +46	+15 ~ +46	+15 ~ +46
Range (C		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24
	,				I .	o than a refrigerant with higher GWP.		

^(*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 64 sassemble the product yourself or product yourself and always ask a professional. The GWP of R41OA is 2088 in the IPCO 4th Assessment Report.

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

(*3) SHI: Super High

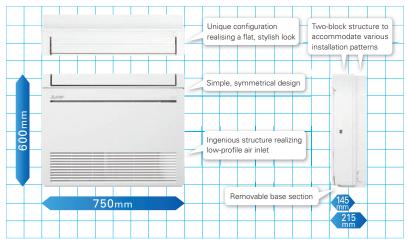
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

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



Simple, Flat Design

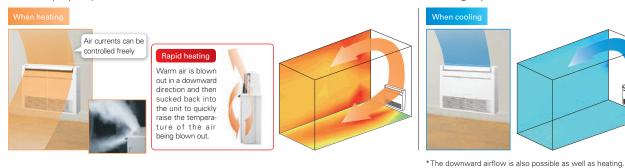
Uneven surfaces have been smoothed to provide a simple design with linear beauty, harmonised with all types of interiors.





Multi-flow Vane

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



Excellent Energy-saving Performance



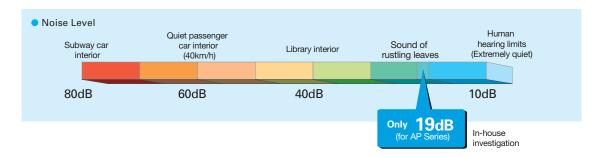
SEER A*** (25) and SCOP A* (25/35/50) ratings have been achieved through development focusing on compliance with European energy-related product (ErP) regulations.

Weekly Timer (Introduced in response to market demand)

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

Quiet Operation

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



















(R410A)



MFZ-KJ25/35/50VE2



Outdoor Unit

R410A



MUFZ-KJ25/35VE



MUFZ-KJ50VE

Remote Controller



































Type



















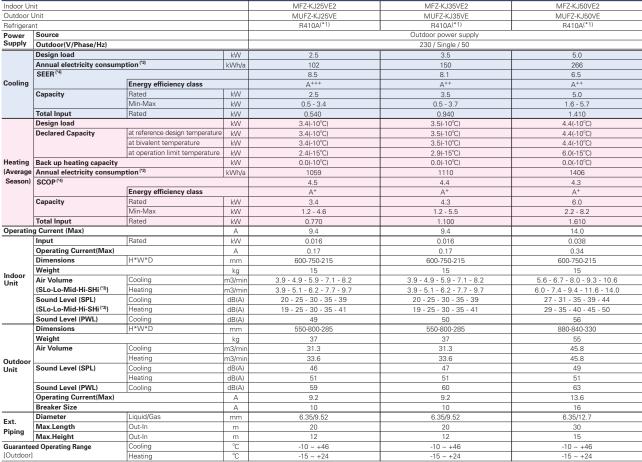












^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that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

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

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

(*3) SHI: Super High

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



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

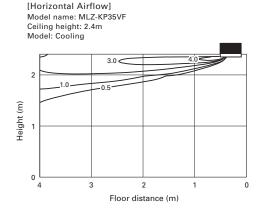
Outlet vanes can be moved left and right, and up and down using the remote controller. This improved airflow control feature solves the problem of drafts.

Left and Right Up and Down

*Only available when Econo Cool is set.

Horizontal Airflow

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



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							
12:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
14:00		Automatic	ally turned off during v	vork hours		Midday is warmer so the temperatur	e is set lower
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
50:00	ON 22°C		ns on, synchronized wi		ON 22°C	Automatically raises ter	nperature setting to
55:00		Automatically turn	ns on, synchronized wi	tir arrivar at riorne		match time when outsi	de-air temperature is low
(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	

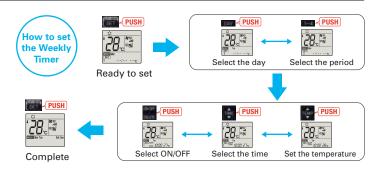
Settings

Pattern Settings: Input up to four settings for each day

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

■ Easy set-up using dedicated buttons -





- · Start by pushing the "SET" button and follow the instructions to set the desired patterns Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inindoor 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 Times constant.
- It takes a few seconds to transmit the Weekly Timer operation patterns to the indoor unit. Please continue to point the remote controller at the indoor unit until all data has been sent.

Easy Installation

Industry leading Slim Body

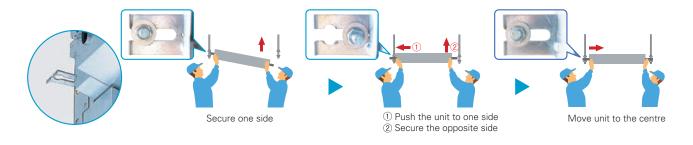
Inovative size which enables to fold the refrigerant piping above the unit.



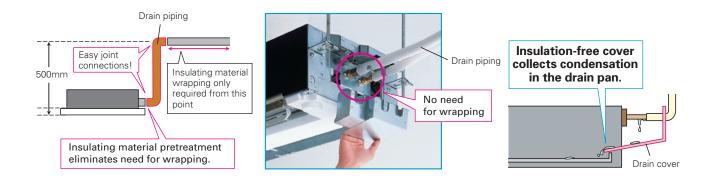
Dimension: 185(H)×1102(W)×360(D)mm

Temporary hanging hook

Work efficiency has improved during installation.

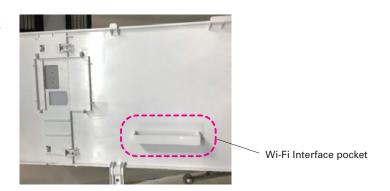


Drain Piping Supporters + Drain Cover



Wi-Fi Interface Installation (Optional)

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



MLZ-KP SERIES











MLZ-KP25/35/50VF

Panel

MLP-444W

Outdoor Unit

For Multi Connection Only

Remote Controller















































Туре					Inverter Heat Pump	
Indoor Ur				MLZ-KP25VF	MLZ-KP35VF	MLZ-KP50VF
Outdoor I	Unit				for Multi connection	
Refrigera	nt				R410A / R32 ⁽¹⁾	
Power	Source				Outdoor Power supply	
Supply	Outdoor (V/Ph	ase / Hz)			230V / Single / 50Hz	
	Design load		kW	-	-	-
	Annual electricity	consumption (*2)	kWh/a	-	-	-
	SEER (*4)			-	-	-
Cooling		Energy efficiency class		-	-	-
	Capacity	Rated	kW	-	-	-
	Capacity	Min-Max	kW	-	-	-
	Total Input	Rated	kW	-	-	-
	Design load		kW	-	-	=
		at reference design temperature	kW	-	-	=
	Declared Capacity	at bivalent temperature	kW	-	-	-
	Capacity	at operation limit temperature	kW	-	-	-
Heating	Back up heating		kW	-	-	-
(Average	Annual electricity	consumption (*2)	kWh/a	-	-	-
Season)	SCOP (*4)			-	=	-
		Energy efficiency class		-	-	-
	0	Rated	kW	-	-	-
	Capacity	Min-Max	kW	-	-	-
	Total Input	Rated	kW	-	-	-
Operatin	g Current (Max)		Α	0.40	0.40	0.40
	Input	Rated	kW	0.040	0.040	0.040
	Operating Curre	ent(Max)	Α	-	-	-
	Dimensions	H*W*D	mm	185-1102-360	185-1102-360	185-1102-360
	Weight		kg	15.5	15.5	15.5
Indoor	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
Unit	Mid-Hi ^(*3) (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 ^(*3))	Heating	dB(A)	26-27-34-37	29-32-36-40	26-37-42-48
	Sound Level (PWL)	Cooling	dB(A)	52	53	59
	Dimensions	H*W*D	mm	24-1200-424	24-1200-424	24-1200-424
Panel	Weight	I .	kg	3.5	3.5	3.5
	Dimensions	H*W*D	mm	-	-	-
	Weight		kg	-	-	-
		Cooling	m³/min	-	-	-
	Air Volume	Heating	m³/min	-	-	-
Outdoor		Cooling	dB(A)	-	-	-
Unit	Sound Level (SPL)	Heating	dB(A)	-	-	-
	Sound Level (PWL)	Cooling	dB(A)	-	-	-
	Operating Curre		A	-	-	-
	Breaker Size		A	-	-	-
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/12.7
Ext.	Max.Length	Out-In	m	-	-	-
Piping	Max.Height	Out-In	m	_	-	_
Guarante	eed Operating	Cooling	°C	-	-	_
Range (C		Heating	°C			
			-		shall warming than a refrigerent with higher CMID if leaked t	

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

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

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

(*3) SHI: Super High

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

Specification on Warmer/Colder Condition

Туре							Inverter Heat Pump			
Indoor Ur	nit			MSZ-L	N25VG	MSZ-L	N35VG	MSZ-I	_N50VG	MSZ-LN60VG
Outdoor I	Jnit			MUZ-LN25VG	MUZ-LN25VGHZ	MUZ-LN35VG	MUZ-LN35VGHZ	MUZ-LN50VG	MUZ-LN50VGHZ	MUZ-LN60VG
Refrigera	nt						R32 (*3)			
	Design load		kW	2.5	2.5	3.5	3.5	5	5.0	6.1
Cooling	Annual electricity consumption (*2) kWh/a			83	83	128	130	205	230	285
0009	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)
Heating (Warmer	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)
	Сарасну	at operation limit temperature	kW	2.5 (-15°C)	2.3 (-25°C)	3.2 (-15°C)	3.1 (-25°C)	4.2 (-15°C)	4.7 (-25°C)	6.0 (-15°C)
Season)	Back up heating	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	358	374	412	466	602	779	779
	SCOP			6.6	6.7	6.7	6.6	5.8	5.9	5.9
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++	A+++
	Design load		kW	-	4.7 (-22°C)	-	5.9 (-22°C)	-	8.8 (-22°C)	-
	Declared	at reference design temperature	kW	-	2.6 (-22°C)	-	3.4 (-22°C)	-	5.1 (-22°C)	-
	Capacity	at bivalent temperature	kW	-	3.2 (-10°C)	_	4.0 (-10°C)	-	6.0 (-10°C)	-
Heating (Colder	Сарасну	at operation limit temperature	kW	_	2.3 (-25°C)	_	3.1 (-25°C)	-	4.7 (-25°C)	_
Season)	Back up heating	g capacity	kW		2.1 (-22°C)	-	2.5 (-22°C)	-	3.7 (-22°C)	-
2230011)	Annual electricity	consumption (*2)	kWh/a	-	2425	-	3075	-	5340	-
	SCOP				4.0	-	4.0	-	3.4	-
		Energy efficiency class		_	A+	-	A ⁺	-	A	-

Туре							Inverter H	eat Pumn			
Indoor Ur	nit			MSZ-A	P25VG	MSZ-A	AP35VG	<u> </u>	P42VG	MSZ-A	P50VG
Outdoor				MUZ-AP25VG	MUZ-AP25VGH	MUZ-AP35VG	MUZ-AP35VGH	MUZ-AP42VG	MUZ-AP42VGH	MUZ-AP50VG	MUZ-AP50VGH
Refrigera	nt			R410A (*1)							
	Design load		kW	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0
Cooling	Annual electricity	consumption (*2)	kWh/a	116	116	171	171	196	196	246	246
0009	SEER			7.6	7.6	7.2	7.2	7.5	7.5	7.2	7.2
		Energy efficiency class		A ⁺⁺	A++	A++	A ⁺⁺	A++	A++	A++	A++
	Design load		kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
		at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
	Declared Capacity	at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
Heating (Warmer	Capacity	at operation limit temperature	kW	2.0 (-15°C)	1.6 (-20°C)	2.2 (-15°C)	1.6 (-20°C)	3.4 (-15°C)	2.2 (-20°C)	3.4 (-15°C)	2.3 (-20°C)
(warmer Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
oouoo,	Annual electricity consumption (*2) kWI		kWh/a	337	337	923 / 418	417	507	507	563	563
	SCOP			5.4	5.4	5.4	5.4	5.8	5.8	5.7	5.7
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++

T						January 11	In and Drawner				
Туре							leat Pump				
Indoor Ur	nit			MSZ-FI	H25VE2	MSZ-F	H35VE2	MSZ-FH50VE2			
Outdoor I	Unit			MUZ-FH25VE	MUZ-FH25VE MUZ-FH25VEHZ MUZ-FH35VE MUZ-FH35VEHZ MUZ-FH50VE M						
Refrigera	nt				R410A (*1)						
	Design load		kW	2.5	2.5	3.5	3.5	5.0	5.0		
Cooling	Annual electricity	consumption (*2)	kWh/a	96	96	138	138	244	244		
0009	SEER			9.1	9.1	8.9	8.9	7.2	7.2		
		Energy efficiency class		A+++	A+++	A+++	A+++	A++	A++		
	Design load		kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)		
		at reference design temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)		
	Declared Capacity	at bivalent temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)		
Heating	Capacity	at operation limit temperature	kW	2.5 (-15°C)	1.7 (-25°C)	3.2 (-15°C)	2.6 (-25°C)	5.2 (-15°C)	3.8 (-25°C)		
(warmer Season)	irmer Dealess beating assets			0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)		
0000011)	Annual electricity consumption (*2) kWh/a			376	397	429	471	614	787		
	SCOP			6.3	6.3	6.5	4.8 / 6.5	5.7	5.9		
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++		

Туре						Inverter H	leat Pump			
Indoor Ur	nit			MSZ-E	F25VE3	MSZ-E	F35VE3	MSZ-EF42VE3	MSZ-EF50VE3	
Outdoor I	Jnit			MUZ-EF25VE	MUZ-EF25VEH	MUZ-EF35VE	MUZ-EF35VEH	MUZ-EF42VE	MUZ-EF50VE	
Refrigera	nt			R410A (*1)						
	Design load		kW	2.5	2.5	3.5	3.5	4.2	5.0	
Cooling	Annual electricity	consumption (*2)	kWh/a	103	103	144	144	192	244	
0009	SEER			8.5	8.5	8.5	8.5	7.7	7.2	
		Energy efficiency class		A+++	A+++	A+++	A+++	A ⁺⁺	A++	
	Design load kW			1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)	
		at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)	
	Declared Capacity	at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)	
Heating	Capacity	at operation limit temperature	kW	2.0 (-15°C)	1.6 (-20°C)	2.4 (-15°C)	1.7 (-20°C)	3.4 (-15°C)	3.5 (-15°C)	
(Warmer Season)				0.0 (2°C)	0.0 (2°C)					
oodoon,	Annual electricity consumption (*2) kWh/a SCOP		304	304	396	396	491	557		
			6.0	6.0	5.7	5.7	6.0	5.8		
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++	

Type							Inverter H	eat Pump			
Indoor Ur	nit			MSZ-S	F25VE3	MSZ-S	F35VE3	MSZ-S	F42VE3	MSZ-SF50VE3	
Outdoor	Unit			MUZ-SF25VE	MUZ-SF25VE MUZ-SF25VEH MUZ-SF35VE MUZ-SF35VEH MUZ-SF42VE MUZ-SF42VEH MUZ-SF50VE MUZ-SF50VE						
Refrigera	efrigerant			R410A (*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
Cooming	SEER			7.6	7.6	7.2	7.2	7.5	7.5	7.2	7.2
		Energy efficiency class		A++	A++	A++	A++	A++	A++	A++	A++
	Design load		kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
		at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
	Declared Capacity	at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
Heating (Warmer	Capacity	at operation limit temperature	kW	2.0 (-15°C)	1.6 (-20°C)	2.2 (-15°C)	1.6 (-20°C)	3.4 (-15°C)	2.2 (-20°C)	3.4 (-15°C)	2.3 (-20°C)
(warmer Season)	ler at operation will temperature KVV		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
oodoo.,,	Annual electricity	consumption (*2)	kWh/a	337	337	923 / 418	417	507	507	563	563
	SCOP			5.4	5.4	5.4	5.4	5.8	5.8	5.7	5.7
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++

Туре					Inverter H	eat Pump	
Indoor Ur	nit			MSZ-GF60VE2	MSZ-GF71VE2	MSZ-WN25VA	MSZ-WN35VA
Outdoor I				MUZ-GF60VE	MUZ-GF71VE	MUZ-WN25VA	MUZ-WN35VA
Refrigera				WOZ-GFOOVE	R410		IVIUZ-VVINGOVA
rteirigerai			1347	0.4			0.4
	Design load		kW	6.1	7.1	2.5	3.1
Cooling	Annual electricity	consumption (*2)	kWh/a	311	364	141	173
0009	SEER			6.8	6.8	6.2	6.2
		Energy efficiency class		A++	A++	A++	A++
	Design load		kW	2.5 (2°C)	3.7 (2°C)	1.1 (2°C)	1.3 (2°C)
		At reference design temperature	kW	2.5 (2°C)	3.7 (2°C)	1.1 (2°C)	1.3 (2°C)
	Declared	at bivalent temperature	kW	2.5 (2°C)	3.7 (2°C)	1.1 (2°C)	1.3 (2°C)
Heating	Capacity	at operation limit temperature	kW	3.7 (-15°C)	5.4 (-15°C)	1.6 (-15°C)	2.0 (-15°C)
(Warmer Season)	Back up heating	g capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
Coasonij	Annual electricity	consumption (*2)	kWh/a	664	963	304	362
	SCOP (*4)			5.3	5.4	5.0	5.0
		Energy efficiency class		A+++	A+++	A++	A++

Type							nverter Heat Pump								
Indoor U	nit			MSZ-HJ25VA	MSZ-HJ35VA	MSZ-HJ50VA	MSZ-HJ60VA	MSZ-HJ71VA	MSZ-DM25VA	MSZ-DM35VA					
Outdoor	Unit			MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA	MUZ-HJ60VA	MUZ-HJ71VA	MUZ-DM25VA	MUZ-DM35VA					
Refrigera	nt				R410A (*1)										
	Design load		kW	2.5	3.1	5.0	6.1	7.1	2.5	3.1					
Cooling	Annual electricity consumption (*2) kWh/a			171	212	292	354	441	149	190					
0009	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)					
	Declared Capacity	at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	2.5 (2°C)	2.9 (2°C)	1.1 (2°C)	1.3 (2°C)					
Heating (Warmer	Сарасну	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)	1.9 (-10°C)	2.4 (-10°C)					
Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)					
2230011,	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++					

Туре						Inverter I	leat Pump					
Indoor Ur	nit			MFZ-K	J25VE2	MFZ-K	J35VE2	MFZ-KJ50VE2				
Outdoor I	Unit			MUFZ-KJ25VE	MUFZ-KJ25VEHZ	MUFZ-KJ35VE	MUFZ-KJ35VEHZ	MUFZ-KJ50VE	MUFZ-KJ50VEHZ			
Refrigera	nt					R41	0A (*1)					
	Design load		kW	2.5	2.5	3.5	3.5	5.0	5.0			
Cooling	Annual electricity consumption (*2) kWh/			102	102	150	150	266	266			
Cooling	SEER			8.5	8.5	8.1	8.1					
		Energy efficiency class		A+++	A+++	A++	A++	A++	A++			
	Design load		kW	1.9 (2°C)	1.9 (2°C)	1.9 (2°C)	2.0 (2°C)	2.4 (2°C)	2.5 (2°C)			
		at reference design temperature	kW	1.9 (2°C)	1.9 (2°C)	1.9 (2°C)	2.0 (2°C)	2.4 (2°C)	2.5 (2°C)			
	Declared Capacity	at bivalent temperature	kW	1.9 (2°C)	1.9 (2°C)	1.9 (2°C)	2.0 (2°C)	2.4 (2°C)	2.5 (2°C)			
Heating	Capacity	at operation limit temperature	kW	2.4 (-15°C)	1.6 (-25°C)	2.9 (-15°C)	2.3 (-25°C)	6.0 (-15°C)	3.3 (-25°C)			
(Warmer Season)	Back up heating	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)			
oodoon	Annual electricity	consumption (*2)	kWh/a	511	490	499	510	579	603			
	SCOP			5.1	5.4	5.3	5.4	5.8	5.7			
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++			

^(*1) Retrigerant leakage contributes to climate change. Retrigerant with lower global warming potential (GWP) would contribute less to global warming than a retrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a retrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this retrigerant it 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 retrigerant 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) Refigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1550. 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.









SELECTION

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

STEP 1

SELECT INDOOR UNIT

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



Units without Remote Controller

SLZ-M15FA (Multi split series connection only)

SLZ-M25FA

SLZ-M35FA

SLZ-M50FA

SLZ-M60FA

Panel

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



Units without Remote Controller

SEZ-M25DA

SEZ-M35DA

SEZ-M50DA

SEZ-M60DA

SEZ-M71DA

Units with Wireless Remote Controller

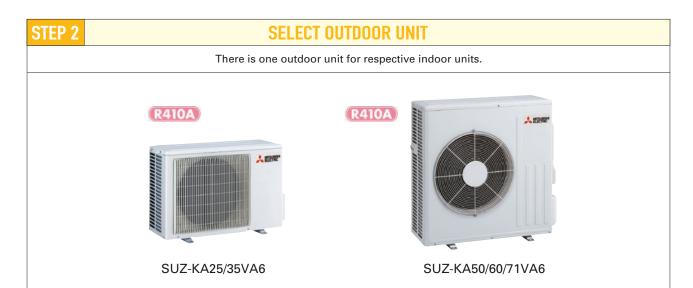
SEZ-M25DAL

SEZ-M35DAL

SEZ-M50DAL

SEZ-M60DAL

SEZ-M71DAL



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

SLZ SERIES

R32
R410A

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

4-way air outlets airflow throughout

G00D
DESIGN

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



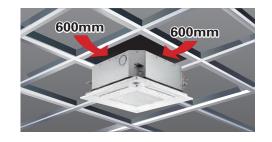
1.5kW has been introduced for multi connection. The diverse selection enables the best solution for both customer and location.

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

Beautiful design

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

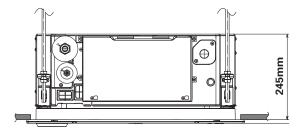
Of course, design matched 2×2 (600mm*600mm) ceiling construction specifications.



The height above ceiling of 245mm

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

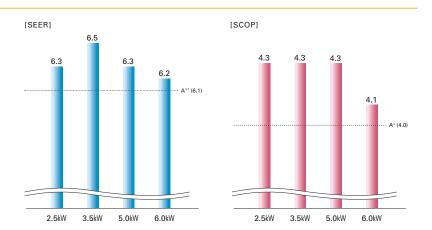
Of course, in addition to our products, replacing competitors' product is simplified too.



Energy-saving Performance*

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

*In case of connecting with SUZ-KA-VA6



Quietness

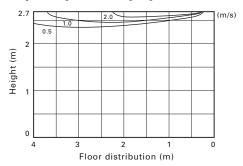
Low sound level has been realized by introduction of 3D turbo fan. New SLZ can give users quieter and move comfortable room condition.



Horizontal Airflow

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

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



*Vane angle: Horizontal

Easy installation

Temporary hanging hook

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





No need to remove screws

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



■ Corner panel



■ Control box cover

Drain lift

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



3D F-see Sensor for S & P SERIES

Detects number of people

Room occupancy energy-saving mode

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

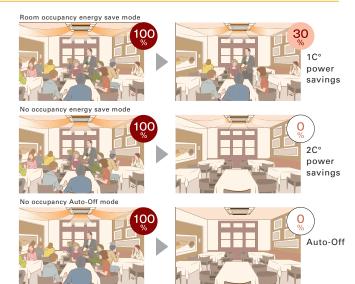
No occupancy energy-saving mode

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

No occupancy Auto-OFF mode*

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

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



*PAR-33MAA is required for each setting

Detects people's position

Direct/Indirect settings*

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



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

Seasonal airflow*

<When cooling>

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

<When heating>

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



*PAR-33MAA is required for each setting.

Simultaneous Multi-system*

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

* Only for RA410A connection

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

SLZ-M SERIES

















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

Panel

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

Outdoor Unit

R410A



SUZ-KA25/35VA6

R410A



SUZ-KA50/60VA6

Remote Controller



Enclosed in SLP-2FALM/SLP-2FALME









































Recal			

Туре						Inverter Heat Pump			
Indoor Ur	it			SLZ-M15FA	SLZ-M25FA	SLZ-M35FA	SLZ-M50FA	SLZ-M60FA	
Outdoor I	Jnit			for Multi connection	SUZ-KA25VA6	SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6	
Refrigera	nt				•	R32 / R410A*1	•		
Power	Source					Outdoor power supply			
Supply	Outdoor (V/Phase/H	z)				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	nsumption*2	kWh/a	-	144	188	256	316	
	SEER			-	6.3	6.5	6.3	6.2	
		Energy Efficiency Class		-	A++	A++	A++	A++	
Heating	Capacity	Rated	kW	-	3.2	4.0	5.0	6.4	
(Average		Min - Max	kW	-	1.3 - 4.2	1.7 - 5.0	1.7 - 6.0	2.5 - 7.4	
Season)	Total Input	Rated	kW	-	0.886	1.108	1.558	2.278	
	Design Load		kW	-	2.2	2.6	3.6	4.6	
	Declared Capacity	at reference design temperature	kW	-	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.0 (-10°C)	
		at bivalent temperature	kW	-	2.0 (-7°C)	2.3 (-7°C)	3.2 (-7°C)	4.0 (-7°C)	
		at operation limit temperature	kW	-	- 2.0 (–10°C) 2.3 (–10°		3.2 (-10°C)	4.0 (-10°C)	
	Back Up Heating Capacity			-	0.2	0.3	0.4	0.4	
	Annual Electricity Co	nsumption*2	kWh/a	-	716	845	1172	1572	
	SCOP			-	4.3	4.3	4.3	4.1	
		Energy Efficiency Class		-	A+	A+	A+	A+	
Operatin	g Current (max)		Α	-	7.2	8.4	12.3	14.4	
Indoor	Input	Rated kV		0.02	0.02	0.02	0.03	0.04	
Unit	Operating Current (n	nax)	Α	0.17	0.20	0.24	0.32	0.43	
	Dimensions <panel></panel>	$H \times W \times D$	mm	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>	
	Weight <panel></panel>		kg	15 <3>	15 <3>	15 <3> 15 <3>		15 <3>	
	Air Volume [Lo-Mid-H	i]	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	o-Mid-Hi]	dB(A)	24 - 26 - 28	25 - 28 - 31	25 - 30 - 34	27 - 34 - 39	32 - 40 - 43	
	Sound Level (PWL)		dB(A)	45	48	51	56	60	
Outdoor	Dimensions	$H \times W \times D$	mm	-	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330	880 - 840 - 330	
Unit	Weight		kg	-	30	35	54	50	
	Air Volume	Cooling	m³/min	-	32.6	36.3	44.6	40.9	
		Heating	m³/min	-	34.7	34.8	44.6	49.2	
	Sound Level (SPL)	Cooling	dB(A)	-	47	49	52	55	
		Heating	dB(A)	-	48	50	52	55	
	Sound Level (PWL)	Cooling	dB(A)	-	58	62	65	65	
	Operating Current (n	nax)	Α	-	7.0	8.2	12.0	14.0	
	Breaker Size		Α	-	10	10	20	20	
Ext.	Diameter	Liquid / Gas	mm	-	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	
Piping	Max. Length	Out-In	m	-	20	20	30	30	
	Max. Height	Out-In	m	-	12	12	30	30	
	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 CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R410A is 2088 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

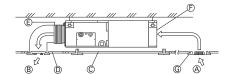




This concealed ceiling-mounted indoor unit series is compact, and fits easily into rooms with lowered ceilings. Highly reliable energy-saving performance makes it a best match choice for concealed unit installations.

Compact Ceiling-concealed Units

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



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

 © Ceiling surface
- © Canvas duct
- Air 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.

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

Four Levels Available for All Models

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

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

Drain Pump (Optional)

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

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

SEZ-M SERIES

















Indoor Unit





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

Outdoor Unit

R410A



SUZ-KA25/35VA6

R410A



SUZ-KA50/60/71VA6

Remote Controller



Enclosed in SEZ-M DAL



*optional (for SEZ-M DA)



*optional (for SEZ-M DA)



















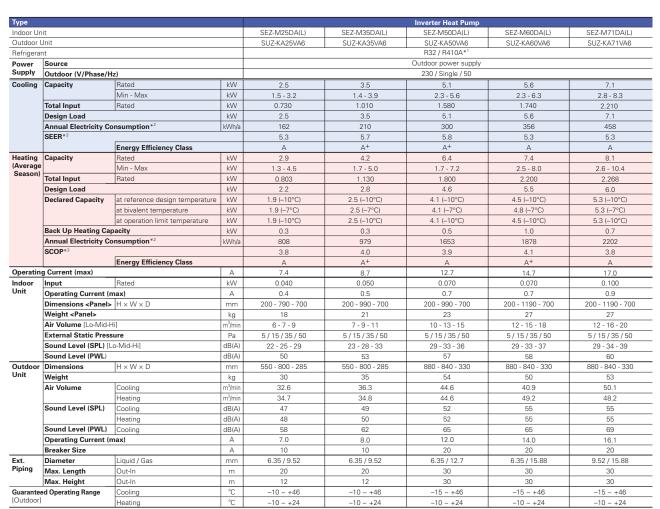












^{*1} Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that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

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

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

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





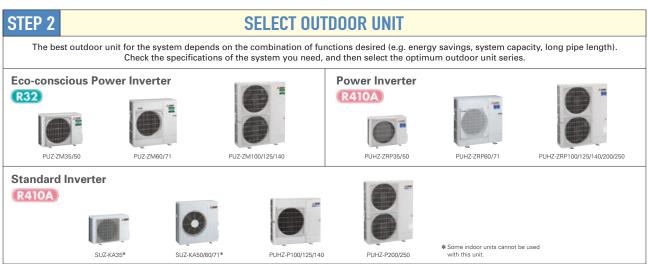




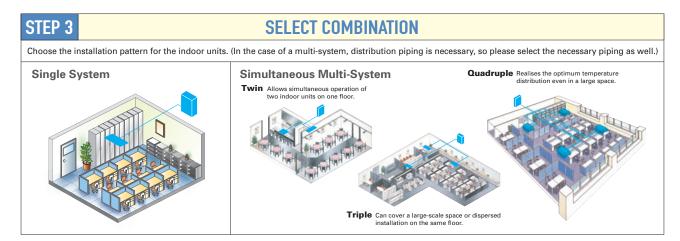
SELECTION

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





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



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

		Indoor Unit Capacity									
Outdoor Unit Capacity	Twin 50 : 50	Triple 33 : 33 : 33	Quadruple 25 : 25 : 25 : 25								
71	35 × 2	_	_								
100	50 × 2	_	_								
125	60 × 2	_	_								
140	71 × 2	50 × 3	_								
200	100 × 2	60 × 3	50 × 4								
250	125 × 2	71 × 3	60 × 4								
Distribution Pipe	MSDD-50TR-E MSDD-50WR-E MSDD-50TR2-E2	MSDT-111R-E MSDT-111R2-E2	MSDF-1111R-E								

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

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

Eco-conscious ower Inverter_{SERIES}

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











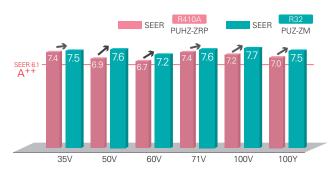
PUZ-ZM35/50VKA

PUZ-ZM60/71VHA

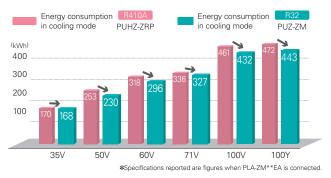
PUZ-ZM100/125/140V(Y)KA

Industry-leading energy efficiency

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

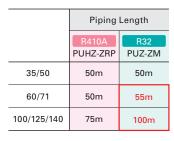


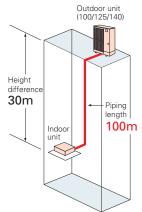
Introduction of new R32 refrigerant reduces energy consumption and realises energy savings.



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

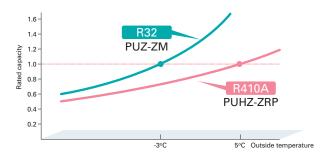
Longer piping length realised for 60, 71, 100, 125 and 140 classes, widely increasing installation flexibility.





Rated heating capacity maintained down to -3°C

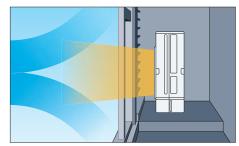
Rated heating capacity maintained even when the outside temperature is down to -3°C. Stay warm even at times of cold weather.



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

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

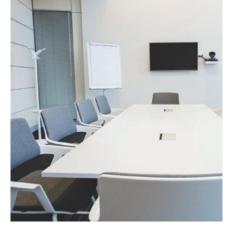




*Rated noise level will be higher when equipped with this option.

Standard Inverter SERIES

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





Light weight and compact size

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





Height 1,350mm
Weight 101kg



PUHZ-P140YKA



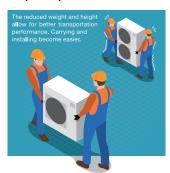
Unobstructive, compact, and easy to hide from view

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





Easy transportation and installation



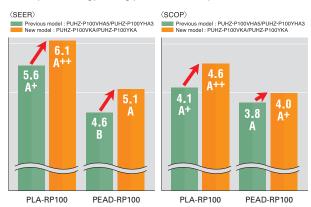


Transport efficiency improves thanks to its low height. The unit can even be transported by minivan.

Improvement of energy-saving performance

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

The superior energy-saving performance helps reduce costs.



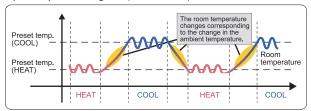
Dual Set Point

A more than the second of the

Two preset temperatures

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

Operation pattern during Auto (Dual Set Point) mode





Deluxe 4-way Cassette Line-up

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

■Line-up

Series	Model	35	50	60	71	100	125	140
R32 R410A	Deluxe 4-way Cassette (PLA-ZM)							
R410A	Standard 4-way Cassette (PLA-RP)							

■Indoor/Outdoor Unit Combinations

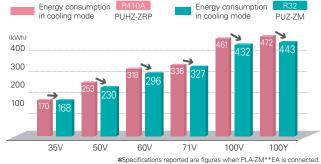


Industry-leading energy efficiency

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

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

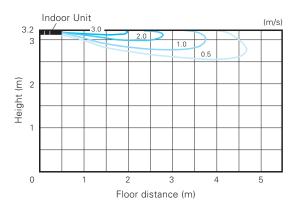




Horizontal Airflow

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

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





Automatic Grille Lowering Function (PLP-6EAJ)

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



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



Wired Remote Controller



Wireless Remote Controller



Easy Installation

Electrical box wiring

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





■ New model (E Series)



Increased space for plumbing work

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

■ Previous model (B Series)



■ New model (E Series)



Temporary hanging hook

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





No need to remove screws

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

■ Corner panel



■ Control box cover



Lightweight decorative panel

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



3D F-see Sensor for S & P SERIES

Detects number of people

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

Detects people's position

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

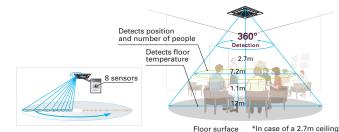


Detects number of people



Detects people's position





Detects number of people

Room occupancy energy-saving mode

The 3D i-see Sensor detects the number of people in the room. It then calculates the occupancy rate based on the maximum number of people in the room up to that point in time in order to save 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.

Room occupancy energy save mode



No occupancy energy save mode







*PAR-33MAA is required for each setting

Detects people's position

Direct/Indirect settings*

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



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

Seasonal airflow*

<When cooling>

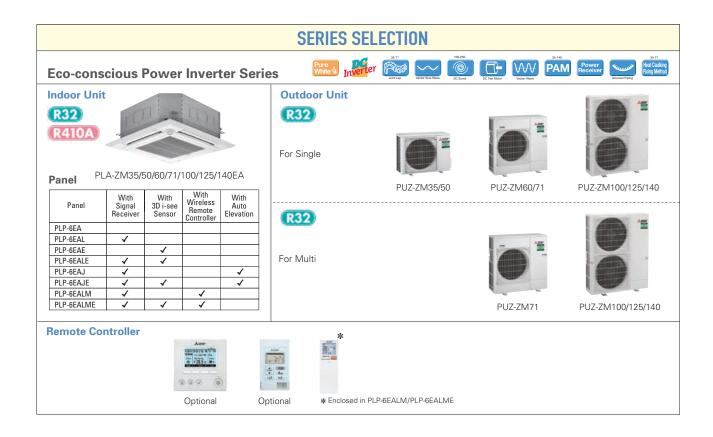
Saves energy while keeping a comfortable effective temperature by automatically switching between ventilation and cooling. When a pre-set temperature is reached, the air conditioning unit switches to swing fan operation to maintain the effective temperature. This clever function contributes to keeping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

<When heating>

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



*PAR-33MAA is required for each setting



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

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

















































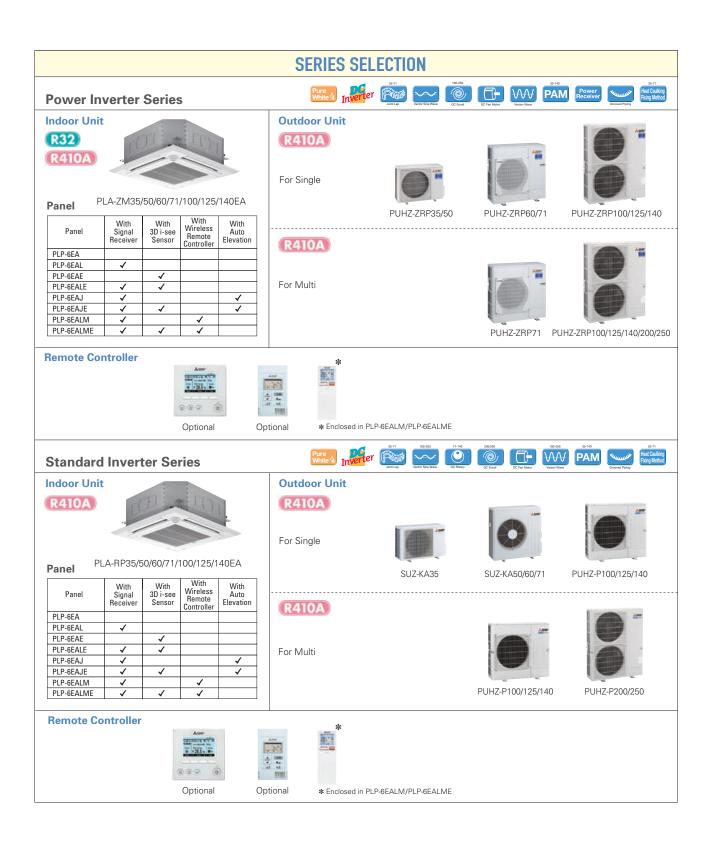




Туре								Inverter F	leat Pump				
Indoor U	nit			PI A-	PLA-	PI A-	PLA-						
				ZM35EA	ZM50EA	ZM60EA	ZM71EA						
Outdoor	Unit			PUZ-	PUZ-	PUZ-	PUZ-	PUZ-	PUZ-	PUZ-	PUZ-	PUZ-	PUZ-
				ZM35VKA	ZM50VKA	ZM60VHA	ZM71VHA	ZM100VKA	ZM100YKA	ZM125VKA	ZM125YKA	ZM140VKA	ZM140Yk
Refrigera	nt				•	•	•	R3	100VKA	•			
Power	Source							Outdoor po	ower supply				
Supply	Outdoor (V/Phase	/Hz)					VKA • VH	A:230 / Single /	50, YKA:400 /	Three / 50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
,		Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.5	3.3 - 8.1	4.9 - 11.4					6.2 - 15
	Total Input	Rated	kW	0.705	1.106	1.452	1.651	2.065					3.722
	EER	1		5.10	4.52	4.20	4.30	4.60					3.60
		EEL Rank		-	-	-	-			-	-	-	-
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	_	_	-	-
	Annual Electricity	Consumption*2	kWh/a		230	296	327	432		-	-	-	_
	SEER			7.5	7.6	7.2	7.6	7.7	7.5	-	-	-	-
		Energy Efficiency Class		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
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		-	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)	-	-	-	_
		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	Capacity	kW	0	0	0	0			-	-	-	_
	Annual Electricity	Consumption*2	kWh/a	745	1083	1339	1370	2277	2277	-	-	-	_
	SCOP	•		4.7	4.9	4.6	4.8	4.8		-	-	-	_
		Energy Efficiency Class		A++	A++	A++	A++	A++			-		_
Operatin	g Current (max)		Α	13.2	13.2	19.2	19.3	27.0		27.0	10.0	28.7	13.7
ndoor	Input	Rated	kW	0.03	0.03	0.03	0.05	0.07					0.10
Jnit	Operating Current		A	0.21	0.22	0.22	0.34	0.47				0.66	0.66
	Dimensions <panel></panel>	H × W × D	mm	258 - 84	0 - 840 <40 - 9	50 - 950>							
	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	12-14-16-18	17-19-21-23	19-22-25-28	19-22-25-28	21-24-26-29	21-24-26-29	24-26-29-32	24-26-29
	Sound Level (SPL)			26-28-29-31									
	Sound Level (PWL		dB(A)	51	54	54	57	61	61			65	65
	Dimensions	H × W × D	mm		09 - 300	943 - 950 -							
Jnit	Weight	1	kg	46	46	70	70						131
	Air Volume	Cooling	m³/min	45	45	55	55						120
		Heating	m³/min	45	45	55	55						120
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47						50
		Heating	dB(A)	46	46	49	49						52
	Sound Level (PWL)		dB(A)	65	65	67	67						70
	Operating Current	(max)	A	13.0	13.0	19.0	19.0						13.0
	Breaker Size	II: :1/0	A	16	16	25	25						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	
Piping	Max. Length	Out-In	m	50 30	50	55	59 30	100 30	100 30	100 30	100 30	100 30	100 30
	Max. Height	Out-In	m		30	30							
	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46 -20 ~ +21	-15 ~ +4 -20 ~ +2						
[Outdoor			1 "(,		_11 ~					1 −/U ~ +/1			

Guaranteed Operating Range Cooling**

| Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | Cooling** | C



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

										Outd	oor Ui	nit Cap	acity								
Indoor	Unit Combination				Fo	or Sing	gle						For	Twin			Fo	or Trip	le	For Qua	adruple
		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	лSDD-	50TR-	E	MSDD-	50WR-E	MSI	DT-111	R-E	MSDF-1	1111R-E
Standa	rd 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	TR-E	MSDD-	50WR-E	MSI	DT-111	R-E	MSDF-1	1111R-E



























































Туре								Inverter F	leat Pump				
Indoor Ur	nit			PLA-	PLA-	PLA-	PLA-						
				ZM35EA	ZM50EA	ZM60EA	ZM71EA	PLA-ZN	/100EA	PLA-ZN	И125EA	PLA-ZN	1140EA
Outdoor	Unit			PUHZ-	PUH7-	PUH7-	PUH7-	PUH7-	PUH7-	PUH7-	PUH7-	PUH7-	PUH7-
Outdoor	Unit Source Outdoor (V/Phase/Hz) Capacity Rated Min - Max Total Input Rated EER Design Load Annual Electricity Consumptic SEER Energy Effi Capacity Rated Total Input Rated COP EEL Rank Design Load Declared Capacity at reference de at bivalent tem at operation in Back Up Heating Capacity Annual Electricity Consumptic			ZRP35VKA2	ZRP50VKA2	ZRP60VHA2	ZRP71VHA2					ZRP140VKA3	
Refrigera	nt			ZIII JJVKAZ	ZIII JOVINAZ	ZIII OOVIIAZ	ZIII / I VI I/AZ		0A*1	2111 12011040	2111 12011040	2111 140 11040	2111 14011040
Power									ower supply				
Supply		/U=\					\/V	A:230 / Single /		Thron / EO			
			1								10.5	10.1	10.4
Cooling			kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
			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	0.78	1.33	1.66	1.79	2.20	2.20	3.84	3.84	4.36	4.36
				-	_	-	-	-	-	3.25	3.25	3.07	3.07
		EEL Rank		-						-	-	-	-
			kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	_
		Consumption*2	kWh/a	170	253	318	336	461	472	-	-	-	-
		F. F. F. C.		7.4	6.9	6.7	7.4	7.2	7.0	-	-	-	-
		Energy Efficiency Class		A++	A++	A++	A++	A++	A++	-	-	-	-
Heating			kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
(Average Season)			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	0.85	1.55	1.89	1.90	2.60	2.60	3.67	3.67	4.84	4.84
				-	_	-	-	-	-	3.81	3.81	3.30	3.30
		EEL Rank		-		-				_	-	-	_
			kW	2.5	3.8	4.4	4.7	7.8	7.8	-	-	-	-
			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)	-	-	-	-
			kW	0	0	0	0	0	0	-	-	-	-
		Consumption*2	kWh/a	714	1109	1337	1342	2229	2229	-	-	-	-
	SCOP			4.9	4.8	4.6	4.9	4.9	4.9	_	-	-	-
		Energy Efficiency Class		A++	A++	A++	A++	A++	A++	-	-	-	-
			A	13.2	13.2	19.2	19.3	27.0	8.5	27.0	10.0	28.7	13.7
Indoor Unit			kW	0.03	0.03	0.03	0.05	0.07	0.07	0.08	0.08	0.10 0.66	0.10 0.66
Unit			Α	0.21	0.22	0.22	0.34	0.47	0.47	0.52		0.66	0.66
		H × W × D	mm	258 - 841	0 - 840 <40 - 95	00 - 950>	04 5	00 5		0 - 840 <40 - 9		27 <5>	27 <5>
			kg	11 10 15 10	21 <5>	140 44 40 40	24 <5>	26 <5>	26 <5>	27 <5>	27 <5>	24-26-29-32	
			m³/min			12-14-16-18 27-29-31-32	28-30-33-36	19-22-25-28	31-34-37-40		33-36-39-41		36-39-42-44
			dB(A)		27-29-31-32	54				62	62	65	65
0.44			mm	51 630 - 80	54	943 - 950	57	61	61) - 330 (+40)	00	05
Unit		H X VV X D	kg	43	19 - 300 46	70	- 330 (+30) 70	116	123	1338 - 1050	125	118	131
Jiiit		Cooling	m³/min	43 45	45	55	55	110	110	120	120	120	120
	An volume		m³/min	45	45	55	55	110	110	120	120	120	120
	Cound Lovel (CDL)		dB(A)	45	45	47	47	49	49	50	50	50	50
	Souriu Level (SPL)		dB(A)	46	46	48	48	51	51	52	52	52	52
	Cound Lovel (DWIL)		dB(A)	65	65	67	67	69	69	70	70	70	70
			A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0
		(IIIuA)	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
P9	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Guaranto	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	-15 ~ +46 -11 ~ +21	-15 ~ +46 -11 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21
[Cutation]	1	пеашц		-11~+21	-11 ~ +21	1 -20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21

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

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

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





























































Туре								Inverter H	eat Pump				
Indoor Ur	nit			PLA- RP35EA	PLA- RP50EA	PLA- RP60EA	PLA- RP71EA	PLA-RF	100EA	PLA-RF	125EA	PLA-RF	140EA
Outdoor I				SUZ- KA35VA6	SUZ- KA50VA6	SUZ- KA60VA6	SUZ- KA71VA6	PUHZ- P100VKA	PUHZ- P100YKA	PUHZ- P125VKA	PUHZ- P125YKA	PUHZ- P140VKA	PUHZ- P140YKA
Refrigera	nt							R41	0A*1				
Power	Source							Outdoor po	wer supply				
Supply	Outdoor (V/Phase	e/Hz)					VA • VKA	x:230 / Single / 5	50, YKA:400 / TI	ree / 50			
Cooling	Capacity	Rated	kW	3.6	5.5	5.7	7.1	9.4	9.4	12.1	12.1	13.6	13.6
		Min - Max	kW	1.4 - 3.9	2.3 - 5.6	2.3 - 6.3	2.8 - 8.1	3.7 - 10.6	3.7 - 10.6	5.6 - 13.0	5.6 - 13.0	5.8 - 14.1	5.8 - 14.1
	Total Input	Rated	kW	1.02	1.61	1.76	2.10	3.18	3.18	4.10	4.10	5.41	5.41
	EER			_	_	-	-	2.95	2.95	2.95	2.95	2.51	2.51
		EEL Rank		-	-	-	-	-	-	-	-	-	_
	Design Load	1	kW	3.6	5.5	5.7	7.1	9.4	9.4	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	181	295	307	400	538	538	-	-	-	-
	SEER			6.9	6.5	6.5	6.2	6.1	6.1	-	-	_	-
		Energy Efficiency Class		A++	A++	A++	A++	A++	A++	-	-	-	-
Heating	Capacity	Rated	kW	4.1	5.8	6.9	8.0	11.2	11.2	13.5	13.5	15.0	15.0
(Average		Min - Max	kW	1.7 - 5.0	1.7 - 7.2	2.5 - 8.0	2.6 - 10.2	2.8 - 12.5	2.8 - 12.5	4.8 - 15.0	4.8 - 15.0	4.9 - 15.8	4.9 - 15.8
Season)	Total Input	Rated	kW	1.00	1.69	1.97	2.24	3.26	3.26	3.84	3.84	4.67	4.67
	COP			_	_	-	-	3.43	3.43	3.51	3.51	3.21	3.21
		EEL Rank		_	_	-	-	-	-	_	-	-	-
	Design Load	•	kW	2.6	4.3	4.6	5.8	8.0	8.0	-	-	-	-
	Declared Capacity	at reference design temperature	kW	2.3 (-10°C)	3.8 (-10°C)	4.0 (-10°C)	4.7 (-10°C)	6.0 (-10°C)	6.0 (-10°C)	-	-	-	-
		at bivalent temperature	kW	2.3 (-7°C)	3.8 (-7°C)	4.1 (-7°C)	5.1 (-7°C)	7.0 (-7°C)	7.0 (-7°C)	-	-	-	-
		at operation limit temperature	kW	2.3 (-10°C)	3.8 (-10°C)	4.0 (-10°C)	4.7 (-10°C)	4.5 (-15°C)	4.5 (-15°C)	-	-	-	-
	Back Up Heating (Capacity	kW	0.3	0.5	0.6	1.1	2.0	2.0	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	826	1505	1498	1888	2432	2432	-	-	-	-
	SCOP	-		4.4	4.0	4.3	4.3	4.6	4.6	-	-	-	-
		Energy Efficiency Class		A ⁺	A ⁺	A ⁺	A ⁺	A++	A++	-	-	-	-
	g Current (max)		Α	8.4	12.2	14.2	16.4	20.5	12.0	27.2	12.2	30.7	12.2
Indoor	Input	Rated	kW	0.03	0.03	0.03	0.04	0.07	0.07	0.10	0.10	0.10	0.10
Unit	Operating Current		Α	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			<40 - 950 - 950:				0 - 840 <40 - 95			
	Weight <panel></panel>		kg	19 <5>	19 <5>	21 <5>	21 <5>	24 <5>	24 <5>	26 <5>	26 <5>	26 <5>	26 <5>
	Air Volume [Lo-Mi		m³/min			12-14-16-18		19-23-26-29	19-23-26-29	21-25-28-31	21-25-28-31	24-26-29-32	24-26-29-32
	Sound Level (SPL)		dB(A)			27-29-31-32		31-34-37-40	31-34-37-40	33-37-41-44	33-37-41-44	36-39-42-44	36-39-42-44
	Sound Level (PWL		dB(A)	51	54	54	56	61	61	65	65	65	65
	Dimensions	$H \times W \times D$		550 - 800 - 285		880 - 840 - 330				981 - 10			
Unit	Weight		kg	35	54	50	53	76	78	84	85	84	85
	Air Volume	Cooling	m³/min	36.3	44.6	40.9	50.1	79	79	86	86	86	86
		Heating	m³/min	34.8	44.6	49.2	48.2	79	79	92	92	92	92
	Sound Level (SPL)	Cooling	dB(A)	49	52	55	55	51	51	54	54	56	56
		Heating	dB(A)	50	52	55	55	54	54	56	56	57	57
	Sound Level (PWL)		dB(A)	62	65	65	69	70	70	72	72	75	75
	Operating Current	t (max)	A	8.2	12.0	14.0	16.1	20	11.5	26.5	11.5	30.0	11.5
	Breaker Size	T1: :1/0	Α	10	20	20	20	32	16	32	16	40	16
Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
riping	Max. Length	Out-In	m	20 12	30	30	30	50 30	50 30	50 30	50 30	50 30	50 30
C	Max. Height	Out-In	°C										
[Outdoor]	ed Operating Range		°C	-10 ~ +46	-15 ~ +46	-15 ~ +46 -10 ~ +24	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46 -15 ~ +21			
[Outdoor]		Heating	٦.٢	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21

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

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

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



























DI /	UU		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			-							
	KP SERIES		60-140W200I250 Ampere	Rotation	Group	M-NET connection	COMPO Wi-	Fi 1) MXZ	Cleaning free,	Viring Drair Reuse Lift U	Pump	Flare	Failure
FUWLKI	INVERTER	Silent &	Limit	Back-up	Contro	Connection	linter	face connection	ble reus	Reuse Lift U	Down	connection	Recal Recal
_				Орасная	Орионы	Optional	Opa		_	Ористан			
Type								Inverter H	eat Pump				
Indoor Ur	nit			PLA- RP35EA	PLA- RP50EA	PLA- RP60EA	PLA- RP71EA	PLA-RF	100EA	PLA-RF	P125EA	PLA-RF	'140EA
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					
Power	Source							Outdoor po	wer supply				
Supply	Outdoor (V/Phase	/Hz)					VKA•VH	A:230 / Single /	50, YKA:400 / T	Three / 50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		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			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)		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		kW	0	0	0	0	0	0	-	-	-	-
	Assessed Flandsisias	C	1.\ \ \ / - / -	704	1010	1.410	1.400	2400	2400				

		at operation limit temperature	KVV	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	764	1212	1418	1402	2468	2468	-	-	_	-
	SCOP			4.5	4.3	4.3	4.6	4.4	4.4	-	-	-	-
		Energy Efficiency Class		A+	Α+	A+	A++	A+	A+	_	-	_	-
	ig Current (max)		Α	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	Operating Current		Α	0.20	0.22	0.24	0.27	0.46	0.46	0.66	0.66	0.66	0.66
	Dimensions <panel></panel>	$H \times W \times D$	mm	2	58 - 840 - 840 <	<40 - 950 - 950	>		2	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	2-Mi1-Hi]	m³/min	11-13-15-16	12-14-16-18	12-14-16-18	14-17-19-21	19-23-26-29	19-23-26-29	21-25-28-31	21-25-28-31	24-26-29-32	24-26-29-32
	Sound Level (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	
	Sound Level (PWL))	dB(A)	51	54	54	56	61	61	65	65	65	65
Outdoor	Dimensions	$H \times W \times D$	mm	630 - 80	9 - 300	943 - 950 -	- 330 (+30)			1338 - 1050	- 330 (+40)		
Outdoor Unit	Dimensions Weight		kg	43	46	70	70	116	123	116	125	118	131
		H × W × D Cooling	kg m³/min					116 110	123 110	116 120		120	120
	Weight		kg m³/min m³/min	43 45 45	46 45 45	70 55 55	70 55 55	110 110	110 110	116 120 120	125 120 120	120 120	120 120
	Weight	Cooling	kg m³/min	43 45 45 44	46 45	70 55	70 55	110	110	116 120	125 120	120	120 120 50
	Weight Air Volume	Cooling Heating	kg m³/min m³/min dB(A) dB(A)	43 45 45	46 45 45	70 55 55 47 48	70 55 55 47 48	110 110 49 51	110 110 49 51	116 120 120 50 52	125 120 120 50 52	120 120 50 52	120 120 50 52
	Weight Air Volume Sound Level (SPL) Sound Level (PWL)	Cooling Heating Cooling Heating Cooling	kg m³/min m³/min dB(A)	43 45 45 44 46 65	46 45 45 44 46 65	70 55 55 47 48 67	70 55 55 47 48 67	110 110 49 51 69	110 110 49 51 69	116 120 120 50 52 70	125 120 120 50 52 70	120 120 50 52 70	120 120 50 52 70
	Weight Air Volume Sound Level (SPL)	Cooling Heating Cooling Heating Cooling	kg m³/min m³/min dB(A) dB(A)	43 45 45 44 46	46 45 45 44 46	70 55 55 47 48	70 55 55 47 48	110 110 49 51 69 26.5	110 110 49 51	116 120 120 50 52	125 120 120 50 52 70 9.5	120 120 50 52	120 120 50 52 70 13.0
Unit	Weight Air Volume Sound Level (SPL) Sound Level (PWL) Operating Current Breaker Size	Cooling Heating Cooling Heating Cooling (max)	kg m³/min m³/min dB(A) dB(A) dB(A)	43 45 45 44 46 65 13.0	46 45 45 44 46 65 13.0	70 55 55 47 48 67 19.0 25	70 55 55 47 48 67 19.0 25	110 110 49 51 69 26.5 32	110 110 49 51 69 8.0 16	116 120 120 50 52 70 26.5 32	125 120 120 50 52 70 9.5	120 120 50 52 70 28.0 40	120 120 50 52 70 13.0
Unit	Weight Air Volume Sound Level (SPL) Sound Level (PWL) Operating Current Breaker Size Diameter	Cooling Heating Cooling Heating Cooling (max) Liquid / Gas	kg m³/min m³/min dB(A) dB(A) dB(A)	43 45 45 44 46 65 13.0 16 6.35 / 12.7	46 45 45 44 46 65 13.0 16 6.35 / 12.7	70 55 55 47 48 67 19.0 25 9.52 / 15.88	70 55 55 47 48 67 19.0 25 9.52 / 15.88	110 110 49 51 69 26.5 32 9.52 / 15.88	110 110 49 51 69 8.0 16 9.52 / 15.88	116 120 120 50 52 70 26.5 32 9.52 / 15.88	125 120 120 50 52 70 9.5 16 9.52 / 15.88	120 120 50 52 70 28.0 40 9.52 / 15.88	120 120 50 52 70 13.0 16 9.52 / 15.88
Unit	Weight Air Volume Sound Level (SPL) Sound Level (PWL) Operating Current Breaker Size Diameter	Cooling Heating Cooling Heating Cooling (max)	kg m³/min m³/min dB(A) dB(A) dB(A) A	43 45 45 44 46 65 13.0 16 6.35 / 12.7 50	46 45 45 44 46 65 13.0	70 55 55 47 48 67 19.0 25 9.52 / 15.88 50	70 55 55 47 48 67 19.0 25 9.52 / 15.88	110 110 49 51 69 26.5 32 9.52 / 15.88	110 110 49 51 69 8.0 16 9.52 / 15.88	116 120 120 50 52 70 26.5 32 9.52/15.88	125 120 120 50 52 70 9.5 16 9.52 / 15.88 75	120 120 50 52 70 28.0 40 9.52 / 15.88	120 120 50 52 70 13.0 16 9.52 / 15.88 75
Unit	Weight Air Volume Sound Level (SPL) Sound Level (PWL) Operating Current Breaker Size Diameter Max. Length	Cooling Heating Cooling Heating Cooling (max) Liquid / Gas	kg m³/min m³/min dB(A) dB(A) dB(A) A A A	43 45 45 44 46 65 13.0 16 6.35 / 12.7	46 45 45 44 46 65 13.0 16 6.35 / 12.7	70 55 55 47 48 67 19.0 25 9.52 / 15.88	70 55 55 47 48 67 19.0 25 9.52 / 15.88	110 110 49 51 69 26.5 32 9.52 / 15.88	110 110 49 51 69 8.0 16 9.52 / 15.88	116 120 120 50 52 70 26.5 32 9.52 / 15.88	125 120 120 50 52 70 9.5 16 9.52 / 15.88	120 120 50 52 70 28.0 40 9.52 / 15.88	120 120 50 52 70 13.0 16 9.52 / 15.88

[|] Max. Height | Out-In | | Ou

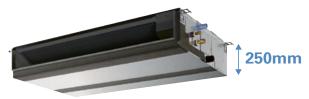




The thin, ceiling-concealed indoor units of this series are the perfect answer for the air conditioning needs of buildings with minimum ceiling installation space and wide-ranging external static pressure. Energy-saving efficiency has been improved, reducing electricity consumption and contributing to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

Compact Indoor Units

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



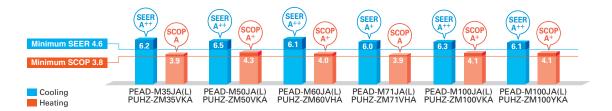
PEAD-M JA(L)

External Static Pressure

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

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

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



Drain Pump Option Available with All Models

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



PEAD-M JA → Drain pump built-in



PEAD-M JAL → No drain pump

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



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

										Outd	oor Ur	nit Cap	pacity								
Indoor	Unit Combination				Fo	or Sing	jle						For	Twin			Fo	or Trip	le	For Qu	adruple
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Inverter (PUZ-ZM)	35x1	50x1	60x1	71x1	100x1	125x1	140x1	-	-	35x2	50x2	60x2	71x2	-	-	50x3	-	-	-	_
	Distribution Pipe	_	_	-	_	_	-	-	-	-	M	ISDD-5	50TR2	-E	-	-	MSE	OT-111	R2-E	-	





































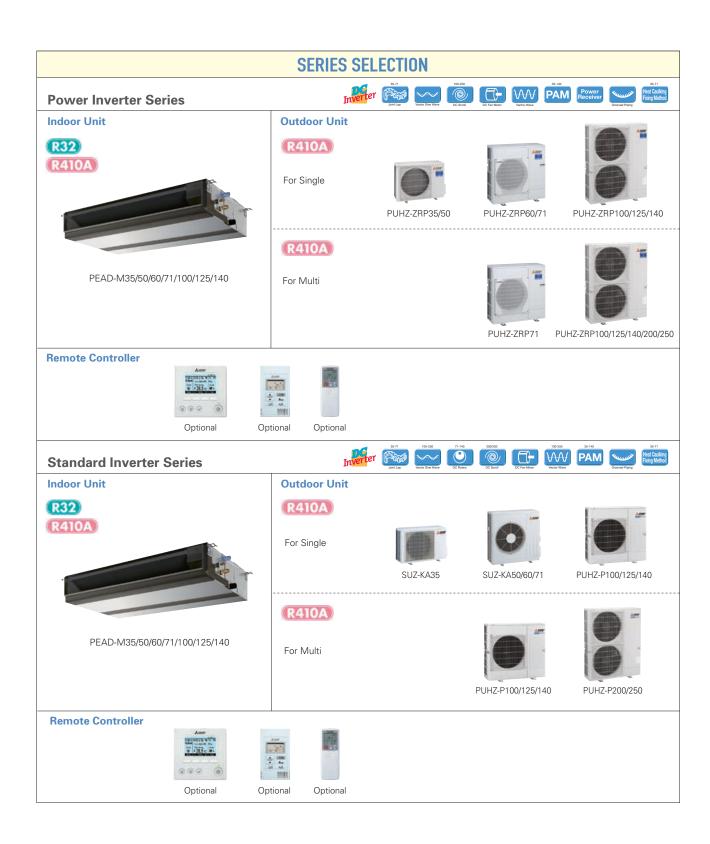






	www.eurovent-certification,	som j	Optional										
Туре								nverter Heat P	ump				
Indoor Ur	nit			PEAD- M35JA(L)	PEAD- M50JA(L)	PEAD- M60JA(L)	PEAD- M71JA(L)	PEAD-M	100JA(L)	PEAD-M	1125JA(L)	PEAD-M	140JA(L)
Outdoor	Unit			PUZ- ZM35VKA	PUZ- ZM50VKA	PUZ- ZM60VHA	PUZ- ZM71VHA	PUZ- ZM100VKA	PUZ- ZM100YKA	PUZ- ZM125VKA	PUZ- ZM125YKA	PUZ- ZM140VKA	PUZ- ZM140YKA
Refrigera	nt				•	•	•	R3	2*1	•	•	•	
Power	Source							Outdoor po	wer supply				
Supply	Outdoor (V/Phase/	Hz)					VKA • VH	A:230 / Single /	50, YKA:400 / T	Three / 50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
0009		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
		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*5	Tidtod		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	LLL HUIIK	l kW	3.6	5.0	6.1	7.1	9.5	9.5	_		_	
	Annual Electricity	Consumption*2	kWh/a	217(201)	282(268)	350(337)	428(414)	534(521)	543(532)	_	_	_	_
	SEER*5	Consumption	[KVVII/a	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		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	0.917	1.312	1.616	1.932	2.598	2.598	3.349	3.349	3.970	3.970
00000117	COP*5	Hateu	I KVV	4.47	4.57	4.33	4.14	4.31	4.31	4.18	4.18	4.03	4.03
		EEL Rank		4.47	4.57	4.55	4.14	4.51	4.51	4.10	4.10	4.05	4.03
	Design Load	EEL Nalik	kW	2.4	3.8	4.4	4.9	7.8	7.8	_			
		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)	_			
			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 at operation limit temperature	kW	2.4 (=10°C) 2.2 (=11°C)	3.7 (–11°C)		3.7 (–20°C)	5.8 (–20°C)	5.8 (–20°C)			=	
	Back Up Heating C		kW	0	0	2.8 (-20°C) 0	0	0	0	_	-		
	Annual Electricity		kWh/a	858	1237	1540	1751	2666	2666		-		
	SCOP*5	consumption **	KVVII/a	3.9	4.3	4.0	3.9	4.1	4.1	_			_
		Energy Efficiency Class		3.9 A	4.3 A+	4.0 A+	3.9 A	4.1 A+	4.1 A+	_			
Onevetin	g Current (max)	Ellergy Elliciency Class	A	14.1	14.4	20.6	21.0	29.2	10.7	29.3	12.3	30.8	15.8
Indoor		4:1 [D-41	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	Input [Cooling / Hea Operating Current		A	1.07	1.39	1.62	1.97	2.65	2.65	2.76	2.76	2.78	2.78
Oilit	Dimensions <panel></panel>	H × W × D	mm	250-90			00-732	2.05		00-732	2.70		00-732
	Weight <panel></panel>	[H × W × D	ka	26(25)	27 (26)	30 (29)	30 (29)	39 (38)	39 (38)	40 (39)	40 (39)	44 (43)	44 (43)
	Air Volume [Lo-Mid	1113	m³/min									32.0-39.0-46.0	
	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		/ 100 / 150	29.5-35.5-42.0	29.5-35.5-42.0	32.0-39.0-46.0	32.0-39.0-46.0
	Sound Level (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
Outdoor	Dimensions	IH×W×D	mm	630 - 80		943 - 950 -		02	02		0 - 330 (+40)	07	07
Unit	Weight	[HXWXD	kg	46	46	70	70	116	123	1338 - 1050	125	118	131
Oiiit	Air Volume	Cooling	m³/min	45	45	55	55	110	110	120	120	120	120
	Air volume	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
	Souliu Level (SFL)		dB(A)	46	46	49	49	51	51	52	52	52	52
	Sound Level (PWL)	Heating Cooling	dB(A)	46 65	46 65	49 67	49 67	69	69	70	70	70	70
	Operating Current		A A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0
		(IIIax)	A		13.0	19.0	19.0	32	16	32	9.5	40	13.0
Ext.	Breaker Size Diameter	Liquid / Gas	mm	16 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
Ext. Piping				50			9.52 / 15.88	100			100	100	
. ibiiig	Max. Length	Out-In	m	30	50 30	55 30	30	30	100 30	100 30	30	30	100
Cuerert	Max. Height	Out-In	°C										30
[Outdoor]	ed Operating Range	Cooling*3		-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
[Outdoor	1	Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21

Heating "C -11 = +21 | -10 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +21 | -20 = +



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

										Outd	oor Ui	nit Cap	pacity								
Indoor	door Unit Combination				Fo	or Sing	gle						For	Twin			F	or Trip	le	For Qu	adruple
	ours les estes (DIUZ ZDD)		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	лSDD-	50TR-	E	MSDD-	50WR-E	MS	DT-111	R-E	MSDF-1	1111R-E
Standa	rd Inverter (PUHZ-P&SUZ)	35x1	50x1	60×1	71x1	100x1	125x1	140x1	-	-	-	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	_	_	-	-	-	-	-	-	-	-	MSI	DD-50	TR-E	MSDD-	50WR-E	MS	DT-111	R-E	MSDF-1	1111R-E









































	annual artistant car the atom		Optional										
Туре								nverter Heat P	ump				
Indoor Ur	nit			PEAD- M35JA(L)	PEAD- M50JA(L)	PEAD- M60JA(L)	PEAD- M71JA(L)	PEAD-M	100JA(L)	PEAD-M	1125JA(L)	PEAD-M	140JA(L)
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	/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
		Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.3	6.2 - 15.3
	Total Input	Rated	kW	0.89 (0.87)	1.44 (1.42)	1.65 (1.63)	2.01 (1.99)	2.43(2.41)	2.43 (2.41)	3.86 (3.83)	3.86 (3.83)	4.32 (4.29)	4.32 (4.29)
	EER*5			-	_	-	-	-	_	3.24 (3.26)	3.24 (3.26)	3.10(3.12)	3.10(3.12)
		EEL Rank		-	-	-	-	-	-	-	-	-	_
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	221(205)	304(288)	355(340)	428(411)	554(543)	565(554)	-	_	-	-
	SEER*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*5			-	-	-	-	-	-	3.99	3.99	3.93	3.93
		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 (Capacity	kW	0	0	0	0	0	0	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	839	1231	1513	1762	2627	2627	-	-	-	-
	SCOP*5			4.0	4.3	4.1	3.9	4.2	4.2	-	-	-	-
		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	Input [Cooling / He		kW					0.25(0.23)/0.23					
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>	$H \times W \times D$	mm		00-732		00-732			00-732			00-732
	Weight <panel></panel>		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		m³/min	10.0-12.0-14.0	12.0-14.5-17.0	14.5-18.0-21.0	17.5-21.0-25.0	24.0-29.0-34.0		29.5-35.5-42.0	29.5-35.5-42.0	32.0-39.0-46.0	32.0-39.0-46.0
	External Static Pre		Pa						/ 100 / 150				
	Sound Level (SPL)		dB(A)	23 - 27 - 30	26 - 31 - 35	25 - 29 - 33	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	33 - 36 - 40	34 - 38 - 43	34 - 38 - 43
0.11	Sound Level (PWL		dB(A)	54	59	55	58	62	62	66	66	67	67
Unit	Dimensions	H × W × D	mm		09 - 300	943 - 950 -		110	100		0 - 330 (+40)	110	131
Unit	Weight	I o r	kg	43	46	70	70	116	123	116	125	118	
	Air Volume	Cooling	m³/min	45 45	45 45	55 55	55 55	110 110	110 110	120 120	120 120	120 120	120 120`
	Sound Level (SPL)	Heating	m³/min	45 44	45 44	47	47	49	49	50	50	50	50
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	49 51	49 51	52	50	52	50
	Sound Level (PWL)	Heating Cooling	dB(A)	46 65	46 65	48 67	48 67	69	69	52 70	70	52 70	52 70
	Operating Current		aB(A)	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size	(IIIdX)	A	16	16	25	25	32	16	32	16	40	13.0
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
Piping	Max. Length	Out-In	m	50	50	50	50	75	75	75	75	75	75
. iping	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Guaranto	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
	·	tas to elimete change Pefri											

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

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

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















































			Optional										
Type								nverter 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				SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6	SUZ-KA71VA6	PUHZ- P100VKA	PUHZ- P100YKA	PUHZ- P125VKA	PUHZ- P125YKA	PUHZ- P140VKA	PUHZ- P140YKA
Refrigera	nt							R41		•		PUHZ- PUHZ- P140VKA 12.1 13.6 .66 -13.0 5.8 - 14.1 .15 (4.14) 5.21 (5.19) .91 (2.92) 2.61 (2.62)	
	Source							Outdoor po					
Supply	Outdoor (V/Phase	/Hz)					VA • VKA		50, YKA:400 / TI	nree / 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
Ū		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			5.6 (6.0)	5.6 (5.9)	5.6 (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)	-			-
	Capacity	Rated	kW	4.1	5.9	7.0	8.0	11.2	11.2	13.5			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
Season)	Total Input	Rated	kW	1.110	1.620	1.930	2.040	2.94	2.94	3.73			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	-			-
	Declared Capacity	at reference design temperature	kW	2.5 (-10°C)	3.9 (-10°C)	4.1 (-10°C)	5.3 (-10°C)	6.0 (-10°C)	6.0 (-10°C)	-	-	-	-
		at bivalent temperature	kW	2.5 (-7°C)	3.9 (-7°C)	4.1 (-7°C)	5.3 (-7°C)	7.0 (-7°C)	7.0 (-7°C)	-			-
		at operation limit temperature	kW	2.5 (-10°C)	3.9 (-10°C)	4.1 (-10°C)	5.3 (-10°C)	4.5 (-15°C)	4.5 (-15°C)	-			-
	Back Up Heating (kW	0.3	0.5	0.5	0.7	2.0	2.0	-			-
	Annual Electricity	Consumption*2	kWh/a	980	1466	1569	2153	2793	2793	-			-
	SCOP*4	F 500 0		4.0	4.2	4.0	3.9	4.0	4.0	-	-		-
0 1	0 1/	Energy Efficiency Class		A+ 9.3	A+	A+	A 18.1	A+ 22.7	A+	29.3	- 440		-
	g Current (max)	e 115 c 1	kW	0.09(0.07) / 0.07	13.4	15.6	0.17(0.15) / 0.15		14.2				14.3
Unit	Input [Cooling / Hea		A	1.07	1.39	1.62	1.97	2.65	2.65	2.76			2.78
Oilit	Dimensions <panel></panel>	H × W × D	mm		00-732		00-732	2.00		00-732	2.70		
	Weight <panel></panel>	[H X VV X D	ka	26 (25)	27 (26)	30 (29)	30 (29)	39 (38)	39 (38)	40 (39)	40 (20)		44 (43)
	Air Volume [Lo-Mic	- Uil	m³/min										
	External Static Pre		Pa	10.0 - 12.0 - 14.0	12.0-14.5-17.0	14.5-16.0-21.0		/50 / 70 / 100 /		29.0-30.0-42.0	29.0-30.0-42.0	32.0-33.0-40.0	32.0-33.0-40.0
	Sound Level (SPL)		dB(A)	23 - 27 - 30	26 - 31 - 35	25 - 29 - 33	26 - 30 - 34	29 - 34 - 38	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			67
Outdoor	Dimensions	IH×W×D	mm	550-800-285	- 00	880-840-330		02	02	981-10		0,	
Unit	Weight	III X VI X D	kg	35	54	50	53	76	78	84		84	85
	Air Volume	Cooling	m³/min	36.3	44.6	40.9	50.1	79	79	86			86
		Heating	m³/min	34.8	44.6	49.2	48.2	79	79	92			92
	Sound Level (SPL)	Cooling	dB(A)	49	52	55	55	51	51	54			56
		Heating	dB(A)	50	52	55	55	54	54	56			57
	Sound Level (PWL)	Cooling	dB(A)	62	65	65	69	70	70	72		75	75
	Operating Current		A	8.2	12.0	14.0	16.1	20.0	11.5	26.5		30.0	11.5
	Breaker Size		А	10	20	20	20	32	16	32			16
Ext.	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88		9.52 / 15.88
Piping	Max. Length	Out-In	m	20	30	30	30	50	50	50	50	50	50
	Max. Height	Out-In	m	12	30	30	30	30	30	30	30	30	30
	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

Guaranteed Operating Range | Cooling** | *C | -10 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +46 | -15 × +4

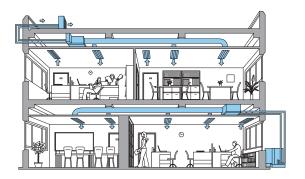




For elegance and style, the PEA Series compliments the room environment with an aesthetically pleasing ceiling installation and a vast line-up of performance functions. Long pipe work installation is supported, increasing freedom in the placement of indoor units.

Flexible Duct Design Enables Use of High-pressure Static Fan

A flexible duct design and 150Pa external static high-pressure are incorporated. The increased variation in airflow options ensures operation that best matches virtually all room layouts.

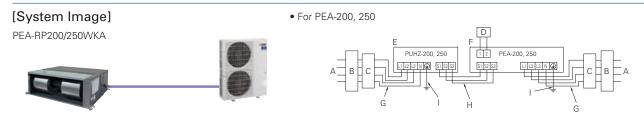


Long Refrigerant Piping Length

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

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

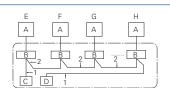
Wide-ranging Line-up from 20–25kW – Extensive Array of Choices to Match Building Size



PAR-33MAA Group Control

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

• For PEA-200, 250



- A Outdoor unit
 - B Indoor unit C Main remote controller
- D Subordinate remote controller
 E Standard (Refrigerant address = 00)
- E Standard (Refrigerant address = 0 F Refrigerant address = 01
- F Refrigerant address = 01 G Refrigerant address = 02
- Refrigerant address = 15



PEZ-RP SERIES



























Туре				Inverter Hea	t Pump						
Indoor Ur	nit			PEA-RP200WKA	PEA-RP250WKA						
Outdoor	Jnit			PUHZ-ZRP200YKA3	PUHZ-ZRP250YKA3						
Refrigera				R410A*1							
Power	Source			Outdoor powe							
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	6.03	8.05						
	EER			3.15	2.73						
		EEL Rank		-	-						
Heating	Capacity	Rated	kW	22.4	27.0						
(Average Season)		Min - Max	kW	9.5 - 25.0	12.5 - 31.0						
Season)	Total Input	Rated	kW	6.58	8.43						
	COP			3.40	3.20						
		EEL Rank		-	-						
Operatin	g Current (max)			23.3	26.5						
Indoor	Input [Cooling / He		kW	0.66	0.80						
Unit	Operating Current		A	4.3	5.5						
	Dimensions	H x W x D	mm	470 - 1370 -	- 1120						
	Weight		kg	108							
	Air Volume [Lo-Hi]		m³/min	50 - 61 - 72	58 - 71 - 84						
	External Static Pr		Pa	(60) / (75) / (10							
	Sound Level (SPL)		dB(A)	38 - 41 - 44	40 - 43 - 46						
	Sound Level (PWL		dB(A)	65 - 66 - 67	70 - 71 - 72						
	Dimensions	H x W x D	mm	1338 - 1050 - 3							
Unit	Weight		kg	135	135						
	Air Volume	Cooling	m³/min	140	140						
		Heating	m³/min	140	140						
	Sound Level (SPL)		dB(A)	59	59						
		Heating	dB(A)	62	62						
	Sound Level (PWL)		dB(A)	77	77						
	Operating Current	t (max)	A	19.0	21.0						
	Breaker Size		A	32	32						
Ext.	Diameter	Liquid / Gas	mm	9.52 / 25.4	12.7 / 25.4						
Piping	Max. Length Out-In		m	100	100						
	Max. Height Out-In m			30 30							
	ed Operating Range	Cooling*3	°C	-15 ~ +46							
[Outdoo		Heating	℃	-20 ~ +21	-20 ~ +21						

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

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

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

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

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















































Auto Restart	Cooling	Silent	Optional
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PEZ-P SERIES	
STANDARD INVERTER	L















		Option	nal Optional							
Гуре					er Heat Pump					
ndoor U				PEA-RP200WKA	PEA-RP250WKA					
Outdoor	Unit			PUHZ-P200YKA3	PUHZ-P250YKA3					
Refrigera	nt				R410A* ¹					
ower	Source			Outdoor power supply						
upply	Outdoor (V/Phas	se/Hz)			/ Three / 50					
ooling	Capacity	Rated	kW	19.0	22.0					
		Min - Max	kW	9.0 - 22.4	11.2 - 27.0					
	Total Input	Rated	kW	6.29	8.14					
	EER			3.02	2.70					
		EEL Rank		-	-					
eating	Capacity	Rated	kW	22.4	27.0					
verage		Min - Max	kW	9.5 - 25.0	12.5 - 31.0					
eason)	Total Input	Rated	kW	6.78	8.70					
	COP			3.30	3.10					
		EEL Rank		-	-					
peratir	g Current (max)	•		23.3	26.5					
door	Input [Cooling / I	Heating] Rated	kW	0.66	0.80					
nit	Operating Curre	nt (max)	A	4.3	5.5					
	Dimensions	H x W x D	mm	470 -	1370 - 1120					
	Weight				108					
	Air Volume [Lo-H	Hi]	m³/min	50 - 61 - 72	58 - 71 - 84					
	External Static P	ressure	Pa	(60) / (75) / (100) / 150						
	Sound Level (SP	L) [Lo-Mid-Hi]	dB(A)	38 - 41 - 44	40 - 43 - 46					
	Sound Level (PW	/L)	dB(A)	65 - 66 - 67	70 - 71 - 72					
utdoor	Dimensions	H x W x D	mm	1338 - 1	050 - 330 (+40)					
nit	Weight	1	kg	127	135					
	Air Volume	Cooling	m³/min	140	140					
		Heating	m³/min	140	140					
	Sound Level (SP	L) Cooling	dB(A)	58	59					
		Heating	dB(A)	60	62					
	Sound Level (PW	L) Cooling	dB(A)	78	77					
	Operating Curre	nt (max)	A	19.0	21.0					
	Breaker Size		A	32	32					
xt.	Diameter	Liquid / Gas	mm	9.52 / 25.4	12.7/25.4					
iping	Max. Length			70	70					
	Max. Height	Out-In	m	30	30					
	ed Operating Range	e Cooling*3	°C	-15 ~ +46	-15 ~ +46					
Outdoor	1	Heating	°C	-20 ~ +21	-20 ~ +21					

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

¹ retrigerant leakage contributes to climate change. Retrigerant with lower global warming potential (GWP) would contribute less to global warming than a retrigerant with nigher GWP, if leaked to the atmosphere. Inia 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 not how the appliance is used and where it is located.

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





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

Wired & Wireless Model

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



Flat Panel & Pure White Finish

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







PKA-M KA(L)



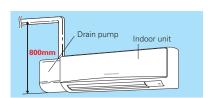
ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

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



Drain Pump Option Available with All Models

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



Multi-function Wired Remote Controller

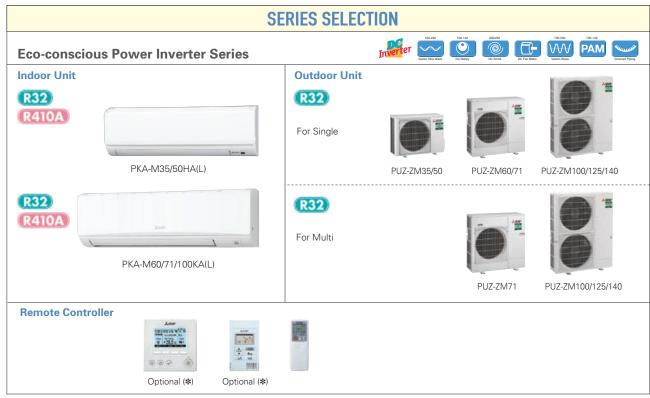
In addition to using the wireless remote controller that comes as standard equipment, PAR-33MAA and PAC-YT52CRA wired remote controllers can be used as well.

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

Main Functions

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





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

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

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





































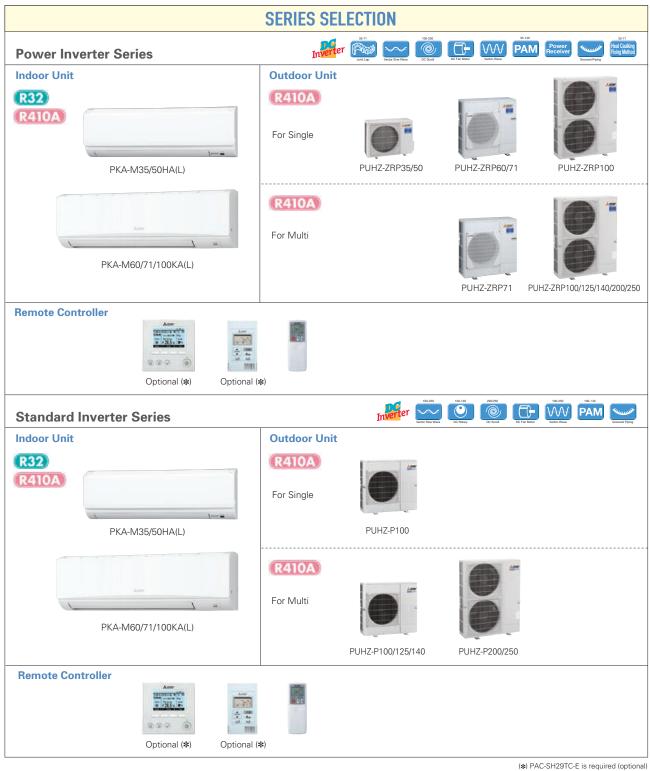








	PERFURIMA Pare to the to the control of the control Annual or the control of the control of the control Annual or the control of t	Interface	001111	Reuse	Lift Up Down conne	Diagnosis	J		
Туре						Inverter H	leat Pump		
Indoor U	nit			PKA-M35HA(L)	PKA-M50HA(L)	PKA-M60KA(L)	PKA-M71KA(L)	PKA-M1	00KA(L)
Outdoor	Unit			PUZ-ZM35VKA	PUZ-ZM50VKA	PUZ-ZM60VHA	PUZ-ZM71VHA	PUZ-ZM100VKA	PUZ-ZM100YKA
Refrigera							2*1		
ower	Source						ower supply		
	Outdoor (V/Phase	e/Hz)				VKA · VHA:230 / Single /	50, YKA:400 / Three / 50		
ooling	Capacity	Rated	l kW	3.6	4.6	6.1	7.1	9.5	9.5
ouiling	Capacity	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	0.869	1.239	1.560	1.863	2.405	2.405
	EER	riatod	1 1000	4.14	3.71	3.91	3.81	3.95	3.95
		EEL Rank		=	=	_		_	-
	Design Load		T kW	3.6	4.6	6.1	7.1	9.5	9.5
	Annual Electricity	/ Consumption*2	kWh/a	200	251	313	364	508	519
	SEER			6.3	6.4	6.8	6.8	6.5	6.4
		Energy Efficiency Class		A++	A++	A++	A++	A++	A++
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 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0
eason)	Total Input	Rated	kW	1.040	1.347	1.732	2.116	3.102	3.102
	COP	•		3.94	3.71	4.04	3.78	3.61	3.61
		EEL Rank		-	-	-	_	-	-
	Design Load		kW	2.4	3.3	4.4	4.7	7.8	7.8
	Declared Capacity	y at reference design temperature	kW	2.4 (-10°C)	3.3 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)
		at bivalent temperature	kW	2.4 (-10°C)	3.3 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)
		at operation limit temperature		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	Capacity	kW	0	0	0	0	0	0
	Annual Electricity	/ Consumption*2	kWh/a	839	1115	1460	1523	2472	2472
	SCOP			4.0	4.1	4.2	4.3	4.4	4.4
		Energy Efficiency Class		A ⁺	A+	A+	A+	A+	Α+
	g Current (max)		A	13.4	13.4	19.4	19.4	27.1	8.6
door	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	Operating Curren		А	0.40	0.40	0.43	0.43	0.57	0.57
	Dimensions <panel:< td=""><td>> H × W × D</td><td>mm</td><td>295 - 89</td><td></td><td>2.1</td><td>365 - 11</td><td></td><td></td></panel:<>	> H × W × D	mm	295 - 89		2.1	365 - 11		
	Weight <panel></panel>		kg	13	13	21	21	21	21
	Air Volume [Lo-M		m³/min	9 - 10.5 - 12	9 - 10.5 - 12	18 - 20 - 22 39 - 42 - 45	18 - 20 - 22 39 - 42 - 45	20 - 23 - 26 41 - 45 - 49	20 - 23 - 26
	Sound Level (SPL		dB(A)	36 - 40 - 43	36 - 40 - 43			41 - 45 - 49	41 - 45 - 49
	Sound Level (PW	H×W×D	dB(A)	60	60	64	64		65
utaoor nit	Dimensions Weight	[H × W × D	mm kg	630 - 80 46	9 - 300	70	- 330 (+25) 70	116) - 330 (+40) 123
IIIC	Air Volume	Cooling	m³/min	46 45	45	55	55	110	110
	Air volume	Heating	m³/min m³/min	45 45	45 45	55	55	110	110
	Sound Level (SPL)		dB(A)	45 44	45	47	47	49	49
	Sound Level (SPL)	Heating	dB(A)	44	44	47	47	49 51	49 51
	Sound Level (PWL		dB(A)	65	65	67	67	69	69
	Operating Curren		A A	13.0	13.0	19.0	19.0	26.5	8.0
	Breaker Size	it (iiiax)	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
ixi. Pipina	Max. Length	Out-In	m	50	50	55	55	100	100
F9	Max. Height	Out-In	m	30	30	30	30	30	30
	iriux. ricigiit	Out III	1111	15 10	45 40	15 .40	1F .4C	1F · 4C	15 .40



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

			Outdoor Unit Capacity																		
Indoor	Indoor Unit Combination		For Single								For Twin					For Triple			For Quadruple		
				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	иsdd-	-50TR-	E	MSDD-50WR-E	-	MS	DT-111	R-E	MSDF-1	1111R-E
Standard 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	R-E	MSDF-1	1111R-E





























Type						Inverter H	eat Pump		
Indoor U	nit			PKA-M35HA(L)	PKA-M50HA(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	nt					R410	DA*1		
Power	Source					Outdoor po	wer supply		
Supply	Outdoor (V/Phase	/Hz)				VKA · VHA:230 / Single /	50, YKA:400 / Three / 50		
Cooling	Capacity	Rated	kW	3.6	4.6	6.1	7.1	9.5	9.5
		Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4
	Total Input	Rated	kW	0.94	1.41	1.60	1.80	2.40	2.40
	EER	•		3.83	3.26	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	214	296	324	368	522	533
	SEER			5.9	5.4	6.5	6.7	6.3	6.2
		Energy Efficiency Class		Α+	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	1.07	1.50	1.96	2.19	3.04 3.68	3.04
	COP	EEL Rank		3.83	3.33	3.57	3.65	3.68	3.68
	D	EEL Hank	1.1147		3.3	4.4	4.7	7.8	7.8
	Design Load	at reference design temperature	kW	2.4 2.4 (-10°C)	3.3 (–10°C)	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	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) 7.8 (=10°C)
		at operation limit temperature		2.4 (-10°C) 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			847	1160	1473	1532	2608	2608
	SCOP		100011/10	3.9	4.0	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	Rated	kW	0.04	0.04	0.06	0.06	0.08	0.08
Unit	Operating Current	(max)	А	0.4	0.4	0.43	0.43	0.57	0.57
	Dimensions <panel></panel>	$H \times W \times D$	mm	295 - 89	98 - 249		365 - 11		
	Weight <panel></panel>		kg	13	13	21	21	21	21
	Air Volume [Lo-Mi		m³/min	9 - 10.5 - 12	9 - 10.5 - 12	18 - 20 - 22	18 - 20 - 22	20 - 23 - 26	20 - 23 - 26
	Sound Level (SPL)		dB(A)	36 - 40 - 43	36 - 40 - 43	39 - 42 - 45	39 - 42 - 45	41 - 45 - 49	41 - 45 - 49
	Sound Level (PWL		dB(A)	60	60	64	64	65	65
	Dimensions	$H \times W \times D$	mm		09 - 300	943 - 950 -			- 330 (+40)
Unit	Weight	[C	kg	43 45	46	70	70 55	116 110	123 110
	Air Volume	Cooling	m³/min m³/min	45 45	45 45	55 55	55	110	110
	Sound Level (SPL)	Heating Cooling	dB(A)	45 44	45	47	47	49	49
	Sound Level (SPL)	Heating	dB(A)	44	44	47	47	51	51
	Sound Level (PWL)		dB(A)	65	65	67	67	69	69
	Operating Current		A A	13.0	13.0	19.0	19.0	26.5	8.0
	Breaker Size	i illiun,	T A	16	16	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
Piping	Max. Length	Out-In	m	50	50	50	50	75	75
	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	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21
			_						

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

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

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

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

















































































ET tion	Wi-Fi)) Interface
al	Optional

Туре				Inverter H	eat Pump
door Ur	nit			PKA-M1	00KA(L)
utdoor l				PUHZ-P100VKA	PUHZ-P100YKA
frigera					0A*1
	Source				ower supply
	Outdoor (V/Phase	/H ₂)		230 / Single / 50	400 / Three / 50
	Capacity	Rated	kW	9.4	9.4
oling	Capacity	Min - Max	kW	3.7 - 10.6	3.7 - 10.6
	Total Input	Rated	kW	3.12	3.12
	EER	Tiated	I KVV	3.01	3.12
		EEL Rank		-	-
	Design Load	LLL Hallk	kW	9.4	9.4
	Annual Electricity	Consumption*2	kWh/a	586	586
	SEER	oonsamption	1.4411/0	5.6	5.6
	J	Energy Efficiency Class		A+	A+
ating	Capacity	Rated	kW	11.2	11.2
erage		Min - Max	kW	2.8 - 12.5	2.8 - 12.5
ison)	Total Input	Rated	kW	3.48	3.48
	COP	110100	1000	3.21	3.21
		EEL Rank		-	=
	Design Load	1	kW	8.0	8.0
		at reference design temperature	kW	6.0 (-10°C)	6.0 (-10°C)
		at bivalent temperature	kW	7.0 (–7°C)	7.0 (-7°C)
		at operation limit temperature	kW	4.5 (-15°C)	4.5 (-15°C)
	Back Up Heating C	Capacity	kW	2.0	2.0
	Annual Electricity		kWh/a	2795	2795
	SCOP	•		4.0	4.0
		Energy Efficiency Class		Α+	Α+
	g Current (max)		А	20.6	12.1
		Rated	kW	0.08	0.08
it	Operating Current	(max)	A	0.57	0.57
	Dimensions <panel></panel>	$H \times W \times D$	mm	365 - 11	70 - 295
	Weight <panel></panel>		kg	21	21
	Air Volume [Lo-Mid		m³/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
		H × W × D	mm		50 - 330
it	Weight		kg	76	78
	Air Volume	Cooling	m³/min	79	79
		Heating	m³/min	79	79
	Sound Level (SPL)		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		А	32	16
	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	50	50
	Max. Height	Out-In	m	30	30
arante	ed Operating Range		°C	−15 ~ +46	-15 ~ +46
Outdoorl		Heating	°C	-15 ~ +21	-15 ~ +21

Guaranteed Operating Range | Cooling: Heating | Cooling: Heating: Heati



R32
R410A

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

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

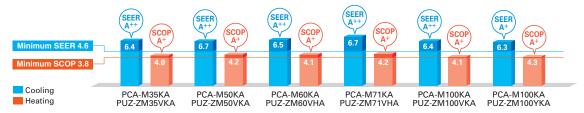
Stylish Indoor Unit Design

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



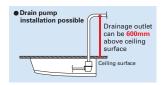
ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

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



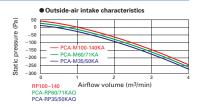
Optional Drain Pump for Full-capacity Models

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



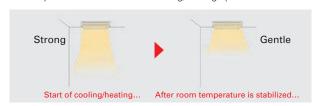
Outside-air Intake

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



Equipped with Automatic Air-speed Adjustment

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



Equipped with High-/Low-ceiling Modes

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

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



Tough on Oily Smoke

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

High-performance Oil Mist Filter

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

Oil Mist Filter Cleaning

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







Pull the handle to easily slide the filter out

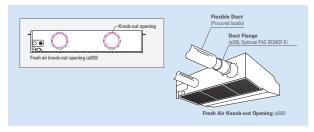
Easy Maintenance – Even for Cleaning the Fan

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



Fresh Outside-air Intake (Option)

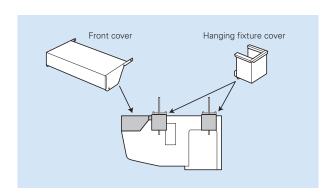
There is a knock-out opening on the rear panel of the unit that can be used to bring fresh air into the unit. This helps to improve ventilation and make the kitchen comfortable.

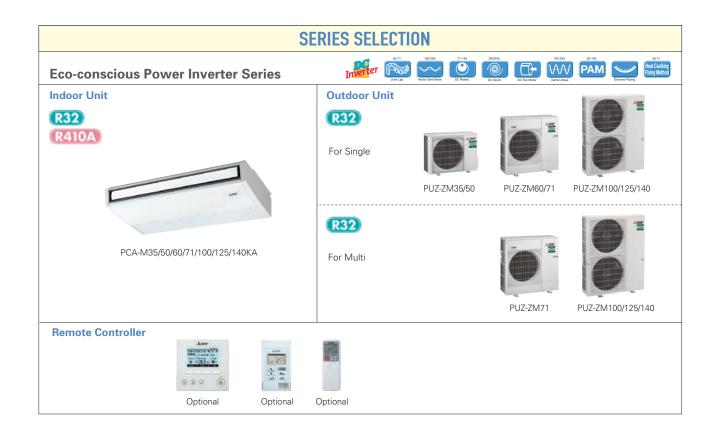


Notes: 1) A fresh-air duct flange is required (sold separately) 2) Intake air is not 100% fresh (outside) air.

Cosmetic Front and Hanging Fixture Covers (Option)

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





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

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





















































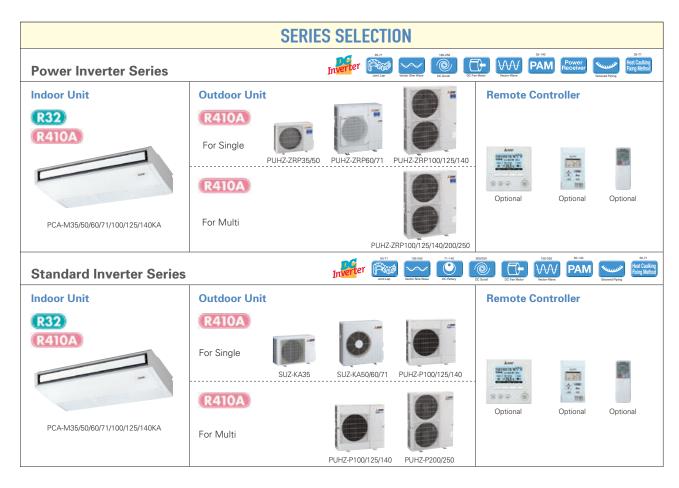
Туре								Inverter H	eat Pump				
Indoor Ur	nit			PCA-	PCA-	PCA-	PCA-						
				M35KA	M50KA	M60KA	M71KA	PCA-N		PCA-N		PCA-M	
Outdoor				PUZ- ZM35VKA	PUZ- ZM50VKA	PUZ- ZM60VHA	PUZ- ZM71VHA	PUZ- ZM100VKA	PUZ- ZM100YKA	PUZ- ZM125VKA	PUZ- ZM125YKA	PUZ- ZM140VKA	PUZ- ZM140YKA
Refrigera	nt							R3					
Power	Source							Outdoor po	wer supply				
Supply	Outdoor (V/Phase	/Hz)					VKA • VH	A:230 / Single /	50, YKA:400 / T	Three / 50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
•		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			6.4	6.7	6.5	6.7	6.4	6.3	-	-	-	-
		Energy Efficiency Class		A++	A++	A++	A++	A++	A++	-	-	-	-
Heating	Capacity	Rated	kW	4.1	5.5	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
(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			4.0	4.2	4.1	4.2	4.3	4.3	-	-	-	-
		Energy Efficiency Class		Α+	A+	A+	A+	A+	A+	-	-	-	-
	g Current (max)		Α	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		Α	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76	0.90	0.90
	Dimensions <panel></panel>	H × W × D	mm	230 - 96			80 - 680	0.7			00 - 680	1 10	
	Weight <panel></panel>		kg	25	26	32	32	37	37	38	38	40	40
	Air Volume [Lo-Mi2		m³/min		10-11-13-15							24-26-29-32	
	Sound Level (SPL)		dB(A)									41-43-45-48	
0.11	Sound Level (PWL		dB(A)	60	60	60	62	63	63	65	65	68	68
Unit	Dimensions	H × W × D	mm	630 - 80 46	19 - 300 46	943 - 950 70	- 330 (+25) 70	116	123) - 330 (+40)	118	131
Jiiit	Weight Air Volume	Cooling	kg m³/min	46 45	46 45	55	55	110	110	116 120	125 120	120	120
	All volume	Heating	m³/min m³/min	45 45	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
	Soutiu Level (SPL)	Heating	dB(A)	44	46	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	(IIIaA)	Â	16	16	25	25	32	16	32	16	40	16
Ext.	Diameter Diameter	Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
Piping	Max. Length	Out-In	m	50	50	55	55	100	100	100	100	100	100
	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Guarante	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
[Outdoor]		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21
, 5 4 (4 5 0)		i icating		111~ +21	11 ~ TZ1	20 ~ TZ1	-20 ~ +21	20 ~ TZ1	20 ~ TZ1	20 121	-20 ~ TZ1	20 ~ TZ1	-20 ~ TZ1

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

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

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

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



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

										Outd	oor Ui	nit Cap	pacity								
Indoor	Unit Combination				Fo	or Sing	gle						For	Twin			Fo	or Trip	le	For Qua	adruple
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Inverter (PUHZ-ZRP)	35x1	50x1	60x1	71x1	100x1	125x1	140x1	-	-	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	MSE	DD-501	TR-E	MSDD-	50WR-E	MSI	DT-111	R-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	MSI	DT-111	R-E	MSDF-1	1111R-E



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

										Outd	oor U	nit Cap	acity								
Indoor	Unit Combination				Fo	r 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)	-	-	-	71x1	-	-	-	-	-	-	-	-	71x2	-	-	-	-	71x3	-	_
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	-	-	MSDD-50TR-E	-	-	-	-	MSDT-111R-E	-	_

























































	Please that the appeared references there is not the appeared references to the control of the c		Optional	Optional	Optional	Optional			Optional	Optional		Diagnosis	
Туре								Inverter H	eat Pump				
ndoor Ur	nit			PCA- M35KA	PCA- M50KA	PCA- M60KA	PCA- M71KA	PCA-N	1100KA	PCA-N	1125KA	PCA-M	140KA
Outdoor I	Unit			PUHZ- ZRP35VKA2	PUHZ- ZRP50VKA2	PUHZ- ZRP60VHA2	PUHZ- ZRP71VHA2	PUHZ- ZRP100VKA3	PUHZ- ZRP100YKA3	PUHZ- ZRP125VKA3	PUHZ- ZRP125YKA3	PUHZ- ZRP140VKA3	PUHZ- ZRP140YKA
Refrigera	nt							R41	0A*1				
ower	Source								wer supply				
Supply	Outdoor (V/Phase	/Hz)					VKA • VH	A:230 / Single /	50, YKA:400 / T	Γhree / 50			
ooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
·		Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	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	•		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			6.2	6.1	6.2	6.7	6.1	6.0	-	-	-	-
		Energy Efficiency Class		A++	A++	A++	A++	A++	A+	-	-	-	-
eating	Capacity	Rated	kW	4.1	5.5	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
verage		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.
eason)	Total Input	Rated	kW	1.02	1.45	1.93	2.20	3.04	3.04	3.80	3.80	4.57	4.57
	COP			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 C		kW	0	0	0	0	0	0	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	815	1257	1458	1519	2837	2837	-	-	-	-
	SCOP			4.1	4.2	4.3	4.3	3.9	3.9	-	-	-	-
		Energy Efficiency Class		A+	A+	Α+	A+	А	Α	-	-	-	-
	g Current (max)		Α	13.3	13.4	19.4	19.4	27.2	8.7	27.3	10.3	28.9	13.9
door	Input	Rated	kW	0.04	0.05	0.06	0.06	0.09	0.09	0.11	0.11	0.14	0.14
nit	Operating Current		Α	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76	0.90	0.90
	Dimensions <panel></panel>	$H \times W \times D$	mm		680 - 680		80 - 680				00 - 680		
	Weight <panel></panel>		kg	25	26	32	32	37	37	38	38	40	40
	Air Volume [Lo-Mi2		m³/min			15-16-17-19	16-17-18-20	22-24-26-28	22-24-26-28	23-25-27-29	23-25-27-29	24-26-29-32	24-26-29
	Sound Level (SPL)		dB(A)									41-43-45-48	
	Sound Level (PWL		dB(A)	60	60	60	62	63	63	65	65	68	68
	Dimensions	H × W × D	mm	630 - 80		943 - 950) - 330 (+40)		
nit	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
	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		Α	16	16	25	25	32	16	32	16	40	16
ct.	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.
ping	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 ~ +4

Guaranteed 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 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +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 ~



































































Type								Inverter H	leat Pump				
Indoor Ur	nit			PCA-M35KA	PCA-M50KA	PCA-M60KA	PCA-M71KA	PCA-M	1100KA	PCA-N	1125KA	PCA-N	1140KA
Outdoor	Unit			SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6	SUZ-KA71VA6	PUHZ-P100VKA	PUHZ-P100YKA	PUHZ-P125VKA	PUHZ-P125YKA	PUHZ-P140VKA	PUHZ-P140YKA
Refrigera	nt							R41	0A*1				
Power	Source							Outdoor po	ower supply				
	Outdoor (V/Phase	/Hz)					VA • VKA	A:230 / Single / 5	50, YKA:400 / TI	hree / 50			
Cooling	Capacity	Rated	kW	3.6	5.0	5.7	7.1	9.4	9.4	12.1	12.1	13.6	13.6
cooming		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	1		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	• • • • • • • • • • • • • • • • • • • •		6.0	5.8	6.1	6.0	5.6	5.6	-	-	-	-
		Energy Efficiency Class		Α+	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		-	-	-	-	-	-	-	-	-	-
	Design Load		kW	2.6	4.0	4.8	5.8	8.0	8.0	-	-	-	-
	Declared Capacity	at reference design temperature	kW	2.3 (-10°C)	3.6 (-10°C)	4.0 (-10°C)	5.2 (-10°C)	6.0 (-10°C)	6.0 (-10°C)	-	-	-	-
		at bivalent temperature	kW	2.3 (-7°C)	3.6 (-7°C)	4.3 (-7°C)	5.2 (-7°C)	7.0 (-7°C)	7.0 (-7°C)	-	-	-	-
		at operation limit temperature	kW	2.3 (-10°C)	3.6 (-10°C)	4.0 (-10°C)	5.2 (-10°C)	4.5 (-15°C)	4.5 (-15°C)	-	-	-	-
	Back Up Heating C		kW	0.3	0.4	0.8	0.6	2.0	2.0	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	887	1398	1678	2028	2726	2726	-	-	-	-
	SCOP			4.1	4.0	4.0	4.3	4.1	4.1	-	-	-	-
		Energy Efficiency Class		A ⁺	A ⁺	A ⁺	A+	A ⁺	A ⁺	-	-	-	-
	g Current (max)		Α	8.5	12.4	14.4	16.5	20.7	12.2	27.3	12.3	30.9	12.4
Indoor		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		Α	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76	0.90	0.90
	Dimensions <panel></panel>	$H \times W \times D$	mm	230-96		230-12					00-680		
	Weight <panel></panel>		kg	25	26	32	32	37	37	38	38	40	40
	Air Volume [Lo-Mi2	2-Mi1-Hi]	m³/min	10-11-12-14	10-11-13-15	15-16-17-19						24-26-29-32	
	Sound Level (SPL)		dB(A)	31-33-36-39	32-34-37-40	33-35-37-40						41-43-45-48	
	Sound Level (PWL		dB(A)	60	60	60	62	63	63	65	65	68	68
Unit		$H \times W \times D$	mm	550 - 800 - 285		880 - 840 - 330		70	70	981 - 10			OF.
Unit	Weight	I Company	kg m³/min	35 36.3	54 44.6	50 40.9	53 50.1	76 79	78 79	84	85 86	84 86	85 86
	Air Volume	Cooling		36.3	44.6	40.9	48.2	79 79	79	86 92	92	92	92
	0 11 1/001	Heating	m³/min dB(A)	34.8 49	52	49.2 55	48.2 55	79 51	79 51	92 54	92 54	92 56	56
	Sound Level (SPL)		dB(A)	50	52	55	55	54	54	56	56	57	57
	Sound Level (PWL)	Heating	dB(A)	62	65	65	69	70	70	72	72	75	75
	Operating Current		A A	8.2	12.0	14.0	16.1	20.0	11.5	26.5	11.5	30.0	11.5
	Breaker Size	(IIIdX)	A	8.2 10	20	20	20	32	11.5	32	11.5	30.0 40	16
Ext.	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	20	30	30	30	50	50	50	50	50	50
	Max. Height	Out-In	m	12	30	30	30	30	30	30	30	30	30
	ed Operating Range		°C	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
Gudidiile	eu Operaully hallye	Looning		-10~+40	-15 ~ +40	-15 ~ +40	15 ~ +40	-15 ~ +40	-15 ~ +40	1 -10 ~ +40	-15 ~ +40	1 -15 ~ +40	-15 ~ +40

Guranteed 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 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +46 | -15 - +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







































ре				Inverter Heat Pump
oor U	nit			PCA-RP71HAQ
tdoor				PUHZ-ZRP71VHA2
frigera				R410A*1
wer	Source			Outdoor power supply
	Outdoor (V/Phase	/H-z)		230 / Single / 50
			114/	
oling	Capacity	Rated Min - Max	kW kW	7.1 3.3-8.1
	T	Rated	kW	3.3-8.1 2.17
	Total Input EER	Inated	KVV	2.17
	EER	EEL Rank		
	Desire Lead	EEL RANK	kW	7.1
	Design Load Annual Electricity	C+?	kWh/a	7.1 447
	SEER SEER	Consumption	KVVII/A	447 5.6
	SEER	Energy Efficiency Class		3.0 A+
41	Capacity	Rated	kW	7.6
ating erage	Сарасіту	Min - Max	kW	7.0 3.5 - 10.2
eraye ison)	Total Input	Rated	kW	3.5 - 10.2 2.35
	COP	Inateu	KVV	2.39
	COF	EEL Rank		
	Design Load	EEL NAIIK	kW	47
		at reference design temperature	kW	
	Deciared Capacity	at bivalent temperature	kW	4.7 (=10 G) 4.7 (=10°C)
		at operation limit temperature	kW	3.5 (~20°C)
	Back Up Heating C		kW	3.5 (720 G)
	Annual Electricity		kWh/a	1751
	SCOP	Consumption	KVVII/a	3.8
		Energy Efficiency Class		3.0 A
oratir	ng Current (max)	Lifergy Efficiency Glass	A	19.4
oor	Input	Rated	kW	0.09
t .	Operating Current		A	0.43
	Dimensions <panel></panel>	H × W × D	mm	280 - 1136 - 650
	Weight <panel></panel>	III A W A D	kg	41
	Air Volume [Lo-Hi]		m³/min	17 - 19
	Sound Level (SPL)	[[o-Hi]	dB(A)	34 - 38
	Sound Level (PWL		dB(A)	56
tdoor	Dimensions	H×W×D	mm	943 - 950 - 330 (+30)
it	Weight	•	kg	70
	Air Volume	Cooling	m³/min	55.0
		Heating	m³/min	55.0
	Sound Level (SPL)	Cooling	dB(A)	47
	,	Heating	dB(A)	48
	Sound Level (PWL)	Cooling	dB(A)	67
	Operating Current	(max)	A	19.0
	Breaker Size	-	A	25
	Diameter	Liquid / Gas	mm	9.52 / 15.88
ing	Max. Length	Out-In	m	50
	Max. Height	Out-In	m	30
	ed Operating Range	Cooling*3	°C	-15 ~ +46
utdoor		Heating	°C	-20 ~ +21

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

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

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

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



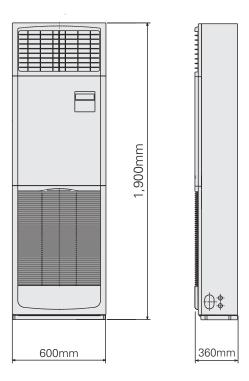
Installation of this floor-standing series is easy and quick. An excellent choice when there is a sudden need for an air conditioner to be installed.



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

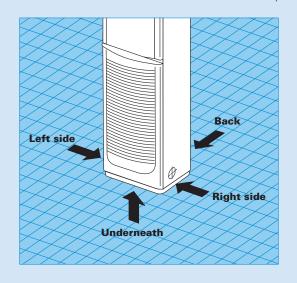
The floor-standing indoor unit is mounted on the floor, enabling quick installation. Its compact body requires only minimal space.

PSA-RP71KA



4-way pipe work connections enable greater freedom in installation

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



Built-in Remote Controller

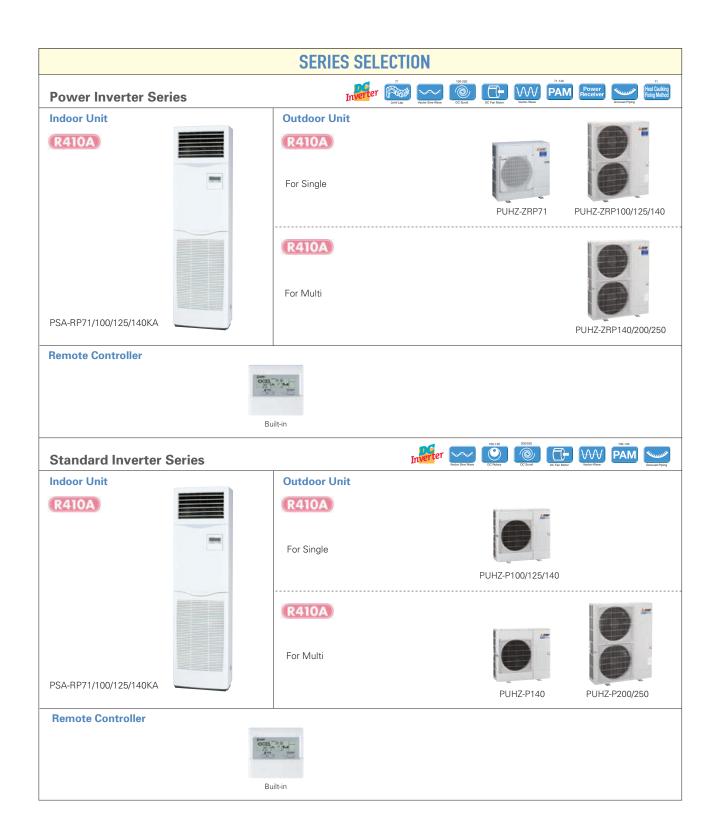
Easy Operation with Built-in PAR-21MAA Remote Controller

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

Main Functions

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





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

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









































Type							Inverter Heat Pump			
Indoor U	ni+			PSA-RP71KA	DCA DI	P100KA		P125KA	DC A DI	P140KA
Outdoor									PUHZ-ZRP140VKA3	
				PUHZ-ZRP71VHA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA3	R410A*1	PUHZ-ZRP125YKA3	PUHZ-ZRP140VKA3	PUHZ-ZRP140YK
Refrigera										
ower	Source						Outdoor power supply			
<u> </u>	Outdoor (V/Phase	 					0 / Single / 50, YKA:40			
Cooling	Capacity	Rated	kW	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min - Max	kW	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0
	Total Input	Rated	kW	1.89	2.50	2.50	4.09	4.09	4.06	4.06
	EER			-	-	-	3.06	3.06	3.30	3.30
		EEL Rank			-	-	-	-	-	-
	Design Load		kW	7.1	9.5	9.5	-	-	-	-
	Annual Electricity	Consumption*2	kWh/a	396	595	606	-	-	-	-
	SEER	E 500		6.3	5.6	5.5	-	-	-	-
	a !:	Energy Efficiency Class		A++	A+	A	-	-	-	-
eating Average	Capacity	Rated Min - Max	kW	7.6 3.5 - 10.2	11.2 4.5 - 14.0	11.2 4.5 - 14.0	14.0 5.0 - 16.0	14.0 5.0 - 16.0	16.0 5.7 - 18.0	16.0 5.7 - 18.0
	Total Input		kW	3.5 - 10.2 2.21	3.08	3.08	4.24	4.24	4.79	4.79
casoni	COP	Rated	KVV		3.08	3.08	3.30	3.30	3.34	3.34
	COP	EEL D		-		_	3.30	3.30	3.34	
	Design Load	EEL Rank	T kW	4.7	7.8	7.8	_	_	_	
		at reference design temperature		4.7 4.7 (–10°C)	7.8 (–10°C)	7.8 (–10°C)	_	_		_
	Declared Capacity	at bivalent temperature	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)				
				3.5 (-20°C)	5.8 (–20°C)	5.8 (–20°C)		_		
	Back Up Heating (at operation limit temperature	kW	0	0	0.8 (-20°C)		_		
	Annual Electricity		kWh/a	1666	2761	2761			_	
	SCOP	Consumption	KVVII/a	4.0	4.0	4.0	_	_		
	3001	Energy Efficiency Class	-	A+	A+	A+				
noratin	g Current (max)	Lifergy Efficiency Class	T A	19.4	27.2	8.7	27.2	10.2	28.7	13.7
	Input	Rated	kW	0.06	0.11	0.11	0.11	0.11	0.11	0.11
nit	Operating Current		A	0.4	0.71	0.71	0.73	0.73	0.73	0.73
	Dimensions <panel></panel>		mm	0.7	0.71	0.71	1900 - 600 - 360	0.70	0.70	0.70
	Weight <panel></panel>	III A W A D	kg	46	46	46	46	46	48	48
	Air Volume [Lo-Mi	d-Hil	m³/min	20 - 22 - 24	25 - 28 - 30	25 - 28 - 30	25 - 28 - 31	25 - 28 - 31	25 - 28 - 31	25 - 28 - 31
	Sound Level (SPL		dB(A)	40 - 42 - 44	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51
	Sound Level (PWL		dB(A)	60	65	65	66	66	66	66
utdoor	Dimensions	H×W×D	mm	943-950-330(+30)				0-330(+40)		
Init	Weight	•	kg	70	116	123	116	125	118	131
	Air Volume	Cooling	m³/min	55.0	110.0	110.0	120.0	120.0	120.0	120.0
		Heating	m³/min	55.0	110.0	110.0	120.0	120.0	120.0	120.0
	Sound Level (SPL)	Cooling	dB(A)	47	49	49	50	50	50	50
		Heating	dB(A)	48	51	51	52	52	52	52
	Sound Level (PWL)		dB(A)	67	69	69	70	70	70	70
	Operating Current	t (max)	A	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size		Α	25	32	16	32	16	40	16
xt.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	50	75	75	75	75	75	75
	Max. Height	Out-In	m	30	30	30	30	30	30	30
	ed Operating Range		°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
Outdoor	1	Heating	°C	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21

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

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

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

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































































Type						Inverter H	eat Pump		
Indoor U	nit			PSA-RI	P100KA	PSA-RF	P125KA	PSA-RF	140KA
Outdoor	Unit			PUHZ-P100VKA	PUHZ-P100YKA	PUHZ-P125VKA	PUHZ-P125YKA	PUHZ-P140VKA	PUHZ-P140YKA
Refrigera	nt					R410			
	Source					Outdoor po			
	Outdoor (V/Phase	/Hz)				VKA:230 / Single / 50,			
Cooling	Capacity	Rated	l kW	9.4	9.4	12.1	12.1	13.6	13.6
Journa		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	Indica	1 100	3.01	3.01	2.41	2.41	2.13	2.13
		EEL Rank		-	-	-	-	_	-
	Design Load	LLLIMIK	l kW	9.4	9.4	_	_	_	_
	Annual Electricity	Consumption*2	kWh/a	644	644	_	_	_	_
	SEER	Consumption	IKVVII/G	5.1	5.1	_	_	_	_
	OLLII	Energy Efficiency Class		A	A	_	_	_	_
leating		Rated	l 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	11000		3.41	3.41	2.81	2.81	3.11	3.11
		EEL Rank		-	-	-	-	-	-
	Design Load		I kW	8.0	8.0	_	_	_	_
		at reference design temperature		6.0 (-10°C)	6.0 (=10°C)	_	_	_	_
	Dooiaroa oapaoity	at bivalent temperature	kW	7.0 (-7°C)	7.0 (-7°C)	_	_	_	_
		at operation limit temperature	kW	4.5 (-15°C)	4.5 (-15°C)	_	_	_	_
	Back Up Heating C		kW	2.0	2.0	_	_	_	_
	Annual Electricity		kWh/a	2794	2794	_	_	_	_
	SCOP			4.0	4.0	_	_	_	_
		Energy Efficiency Class		A+	A+	-	-	-	-
Operatin	g Current (max)	, , , , , , , , , , , , , , , , , , , ,	ΙA	20.7	12.2	27.2	12.2	30.7	12.2
ndoor	Input	Rated	kW	0.11	0.11	0.11	0.11	0.11	0.11
Jnit	Operating Current		A	0.71	0.71	0.73	0.73	0.73	0.73
	Dimensions <panel></panel>		mm			1900 - 6	00 - 360		
	Weight <panel></panel>		kg	46	46	46	46	48	48
	Air Volume [Lo-Mid	d-Hil	m³/min	25 - 28 - 30	25 - 28 - 30	25 - 28 - 31	25 - 28 - 31	25 - 28 - 31	25 - 28 - 31
	Sound Level (SPL)	[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
Outdoor	Dimensions	H × W × D	mm	981 - 10	50 - 330	981 - 10	50 - 330	981 - 10	50 - 330
Jnit	Weight		kg	76	78	84	85	84	85
	Air Volume	Cooling	m³/min	79	79	86	86	86	86
		Heating	m³/min	79	79	92	92	92	92
	Sound Level (SPL)	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		Α	32	16	32	16	40	16
xt.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
Piping	Max. Length	Out-In	m	50	50	50	50	50	50
	Max. Height	Out-In	m	30	30	30	30	30	30
		Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
[Outdoor	1	Heating	°C	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21

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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.

MULT SPLIT SERIES







SELECTION

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





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

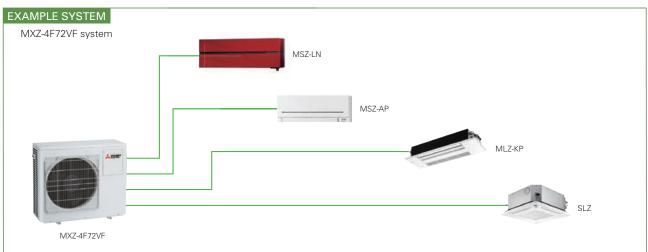
MXZ SERIES

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









Handle Up to 4 Rooms with a Single Outdoor Unit

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

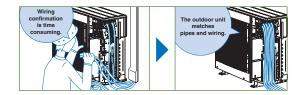
Support Functions ———

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

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

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

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



Operation Lock

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





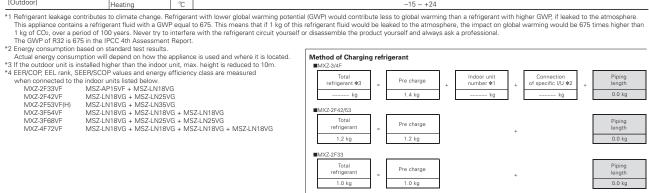








Type (Inv	erter Multi - Split H	eat Pump)			Up to 2 In	door Units		Up to 3 In	door Units	Up to 4 Indoor Units
Indoor Un	it						Please refer to *4			
Outdoor U	Jnit			MXZ-2F33VF	MXZ-2F42VF	MXZ-2F53VF	MXZ-2F53VFH	MXZ-3F54VF	MXZ-3F68VF	MXZ-4F72VF
Refrigerar	nt						R32*1		•	
Power	Source					1	Outdoor power suppl	у		
Supply	Outdoor (V/Phase,	/Hz)				220 -	- 230 - 240V / Single /	50Hz		
Cooling	Capacity	Rated	kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2
	Input*4	Rated	kW	0.85	0.98	1.40	1.40	1.32	1.84	1.85
	EER*4	<u>'</u>		3.88	4.29	3.79	3.79	4.09	3.70	3.89
		EEL Rank*4		-	-	-	-	-	-	-
	Design Load		kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2
	Annual Electricit	y Consumption*2	kWh/a	188	169	215	215	222	299	310
	SEER*4			6.13	8.69	8.63	8.63	8.52	7.96	8.13
		Energy Efficiency C	class*4	A++	A+++	A+++	A+++	A+++	A++	A++
Heating	Capacity	Rated	kW	4.0	4.5	6.4	6.4	7.0	8.6	8.6
(Average	Input	Rated	kW	0.91	0.88	1.56	1.56	1.40	1.91	1.87
Season)	COP*4			4.40	5.11	4.10	4.10	5.00	4.50	4.60
		EEL Rank*4		-	-	-	-	-	-	-
	Design Load		kW	2.7	3.2	3.2	3.2	5.0	6.8	7.0
		ence design temperature	kW	2.2	2.7	2.7	2.7	4.0	5.5	5.6
	Capacity at bival	ent temperature	kW	2.4	2.9	2.9	2.9	4.5	6.1	6.2
	at oper	ation limit temperature	kW	1.8	2.3	2.3	2.1	3.2	4.6	4.8
	Back Up Heating	Capacity	kW	0.5	0.5	0.5	0.5	1.0	1.3	1.4
	Annual Electricit	y Consumption*2	kWh/a	908	974	973	998	1520	2312	2410
	SCOP*4			4.16	4.60	4.60	4.49	4.61	4.12	4.07
		Energy Efficiency (Class*4	Α+	A++	A++	A+	A++	A+	A+
Operating	g Current (max)		А	10.0	12.2	12.2	12.2	18.0	18.0	18.0
	Dimensions	$H \times W \times D$	mm		550 - 800 (+69	9) - 285 (+59.5)		71	0 - 840 (+30) - 330 (+	66)
Unit	Weight	•	kg	33	37	37	38	58	58	59
	Air Volume	Cooling	m³/min	32.9	27.7	32.9	32.9	42.1	42.1	42.1
		Heating	m³/min	33.7	33.3	33.3	33.3	43.0	43.0	43.0
	Sound Level (SPL)	Cooling	dB(A)	49	44	46	46	46	48	48
		Heating	dB(A)	50	50	51	51	50	53	54
	Sound Level (PWL	Cooling	dB(A)	60	59	61	61	60	63	63
	Operating Current	Cooling	Α	Pending	Pending	Pending	Pending	Pending	Pending	Pending
		Heating	Α	Pending	Pending	Pending	Pending	Pending	Pending	Pending
	Breaker Size		Α	15	15	15	15	25	25	25
Ext.	Port Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35 × 2 / 9.52 × 2	6.35 × 2 / 9.52 × 2	6.35 × 2 / 9.52 × 2	6.35 × 3 / 9.52 × 3	6.35 × 3 / 9.52 × 3	6.35 × 4 / 12.7 × 1 + 9.52 × 3
Piping	Total Piping Lengt	h (max)	m	20	30	30	30	50	60	60
	Each Indoor Unit P	iping Length (max)	m	15	20	20	20	25	25	25
	Max. Height		m	10	15(10)*3	15(10)*3	15(10)*3	15(10)*3	15(10)*3	15(10)*3
	Chargeless Length		m	20	30	30	30	Refer to "	Method Of Charging	refrigerant"
	d Operating Range	Cooling	°C				-10 ~ +46			
[Outdoor]		Heating	°C				-15 ~ +24			



- *1 If you connect indoor unit number 3 or 4 units, please add to charge refrigerant amount 0.5kg
 *2 If you connet specific indoor unit(s), please add to charge refrigerant amount 0.17kg per 1unit
 Specific indoor unit is following: MSZ-LN18/25/35V6 MLZ-KP25/35/50VA
 SEZ-M50DA(L) PCA-M50/60KA
 PEAD-M50JA(L)Q

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

MXZ SERIES

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





R410A 2-port

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



R410A

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



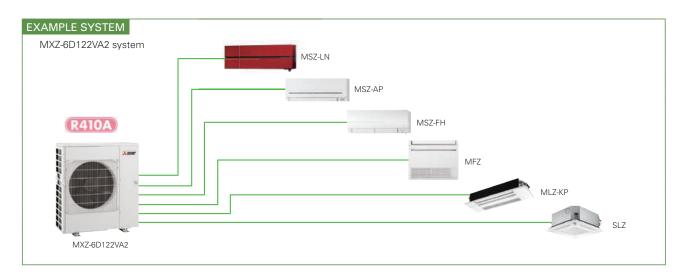
R410A





R410A

6-port MXZ-6D122VA2



Handle Up to 6 Rooms with a Single Outdoor Unit

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

Support Functions -

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

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

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

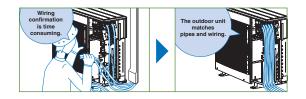
The correction process requires 10–20 minutes to complete and must be conducted with the unit set to the "Cooling" mode.

Ampere Limit Adjustment*

(4E83/5E102/6D122)

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

* Maximum capacity is lowered with the use of this function



Operation Lock

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















Type (Inv	verter Multi - Sı	olit Heat Pump)			Up to 2 Inc	door Units		Up to 3 Inc	door Units	Up to 4 In	door Units	Up to 5 Indoor Units
Indoor Ur	nit						F	Please refer to (*4	4)			
Outdoor	Unit			N: MXZ-2D33VA	N: MXZ-2D42VA2	N: MXZ-2D53VA2	N: MXZ-2D53VAH2	N: MXZ-3E54VA	N: MXZ-3E68VA	N: MXZ-4E72VA	MXZ-4E83VA	MXZ-5E102VA
Refrigera	nt							R410A*1				•
Power	Source						Οι	utdoor power sup	ply			
Supply	Outdoor (V/P	hase/Hz)					220 -	230 - 240V / Sing	ıle / 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+0	utdoor) Rated	kW	0.90	1.00	1.54	1.54	1.35	2.19	2.25	2.44	3.15
	Design Load		kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2	8.3	10.2
	Annual Electr	icity Consumption*2	kWh/a	211	216	262	262	295	425	443	460	537
	SEER*4			5.5	6.8	7.1	7.1	6.4	5.6	5.7	6.3	6.6
		Energy Efficience	cy Class*4	А	A++	A++	A++	A++	A ⁺	A ⁺	A++	A++
Heating	Capacity	Rated	kW	4.0	4.5	6.4	6.4	7.0	8.6	8.6	9.3	10.5
(Average	•	Min - Max	kW	1.0 - 4.1	1.0 - 4.8	1.0 - 7.0	1.0 - 7.0	2.6 - 9.0	2.6 - 10.6	3.4 - 10.7	3.4 - 11.6	4.1 - 14.0
Season)	Input (Indoor+0	utdoor) Rated	kW	0.96	0.93	1.70	1.70	1.59	2.38	2.28	2.00	2.34
	Design Load		kW	2.7	3.2	4.5	4.5	5.0	6.8	7.0	8.7	8.9
	Declared at re	ference design temperatu	re kW	2.1	2.7	3.7	3.6	4.0	5.4	5.6	7.1	7.3
	Capacity at bi	valent temperature	kW	2.4	3.0	4.0	4.0	4.49	6.0	6.2	7.8	7.9
	at o	peration limit temperature	kW	1.7	2.3	3.3	3.0	3.17	4.4	4.7	6.0	6.3
	Back Up Heat	ing Capacity	kW	0.6	0.5	0.8	0.9	1.0	1.4	1.4	1.6	1.6
	Annual Electr	icity Consumption*2	kWh/a	926	1065	1507	1546	1751	2466	2516	2889	2958
	SCOP*4			4.1	4.2	4.2	4.1	4.0	3.9	3.9	4.2	4.2
		Energy Efficience	cy Class*4	A ⁺	A ⁺	A+	A ⁺	A ⁺	А	А	A+	A+
Max. Op	erating Current	(Indoor+Outdoor)	А	10.0	12.2	12.2	12.2	18.0	18.0	18.0	21.4	21.4
	Dimensions	H × W × D	mm		550 - 800 (+69) - 285(+59.5)		710 -	840 (+30) - 330	(+66)	796 - 9	50 - 330
Unit	Weight	'	kg	32	37	37	38	58	58	59	63	64
	Air Volume	Cooling	m³/min	32.9	27.7	32.9	32.9	42.1	42.1	42.1	55.6	65.1
		Heating	m³/min	33.7	33.3	33.3	33.3	43.0	43.0	43.0	55.6	68.0
	Sound Level (SPL) Cooling	dB(A)	49	46	50	50	50	50	50	49	52
		Heating	dB(A)	50	51	53	53	53	53	53	51	56
	Sound Level (PWL) Cooling	dB(A)	63	60	64	64	64	64	64	61	65
	Breaker Size		А	10	15	15	15	25	25	25	25	25
Ext.	Diameter	Liquid	mm	6.35 × 2	6.35 × 2	6.35 × 2	6.35 × 2	6.35 x 3	6.35 x 3	6.35 x 4	6.35 × 4	6.35 × 5
Piping		Gas	mm	9.52 × 2	9.52 × 2	9.52 × 2	9.52 × 2	9.52 x 3	9.52 x 3	12.7×1+9.52×3	12.7×1+9.52×3	12.7×1+9.52×4
	Total Piping L	ength (max)	m	20	30	30	30	50	60	60	70	80
	Each Indoor U	Init Piping Length (ma	x) m	15	20	20	20	25	25	25	25	25
	Max. Height		m	10	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3
	Chargeless Le	ngth	m	20	20	20	20	40	40	40	25	0
	ed Operating Ra	nge 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	rerter Multi - Split He	at Pump)		Up to 6 Indoor Units
Indoor Ur	•			Please refer to (*5)
Outdoor l	Init			MX7-6D122VA2
Refrigera				R410A*1
Power	Source			Outdoor power supply
Supply	Outdoor (V/Phase/H	łz)		220 - 230 - 240V / Single / 50
Cooling	Capacity	Rated	kW	12.2
_		Min - Max	kW	3.5 - 13.5
	Input*5	Rated	kW	3.66
	EER*6			3.33
		EEL Rank		A
Heating	Capacity	Rated	kW	14.0
li li		Min - Max	kW	3.5 - 16.5
	Input*5	Rated	kW	3.31
	COP*6			4.23
		EEL Rank		A
Operatin	g Current (max)*5		А	26.8
	Dimensions	$H \times W \times D$	mm	1048 - 950 - 330
Unit	Weight		kg	88
	Air Volume	Cooling	m³/min	63.0
		Heating	m³/min	77.0
	Sound Level (SPL)	Cooling	dB(A)	55
		Heating	dB(A)	57
	Sound Level (PWL)	Cooling	dB(A)	69
	Breaker Size		А	32
Ext.	Diameter	Liquid	mm	6.35×6
Piping		Gas	mm	12.7×1+9.52×5
	Total Piping Length	(max)	m	80
	Each Indoor Unit Piping	Length (max)	m	25
	Max. Height		m	15 (10)* ³
	Chargeless Length		m	30
	ed Operating Range	Cooling	°C	−10 ~ +46
[Outdoor]		Heating	°C	-15 ~ +24

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

MXZ-2D33VA

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

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

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

MXZ-3E54VA

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

MXZ-3E68VA MXZ-4E72VA

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

MXZ-DM SERIES

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





Stylish Design with Flat Panel Front

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

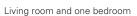


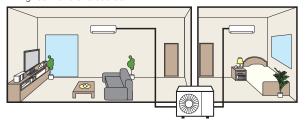
Easy to create various combinations

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

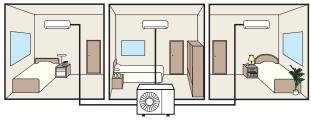
Two bedrooms



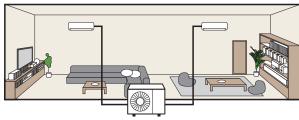


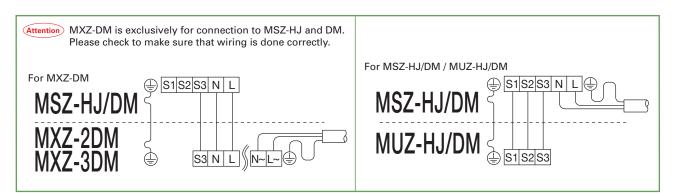


Three bedrooms



Wide living room

















Type (Inv	erter Multi - Split He	at Pump)		Up to 2 Indoor Units	Up to 3 Indoor Units			
ndoor Un	it			Please re	fer to (*4)			
Outdoor (Jnit			MXZ-2DM40VA	MXZ-3DM50VA			
efrigerar	nt			R410A*1				
ower	Source			Outdoor po	ower supply			
upply	Outdoor (V/Phase/I	Hz)		230 / Single / 50				
ooling	Capacity	Rated	kW	4.0	5.0			
	Input*4	Rated	kW	1.05	1.13			
	EER*4			3.81	4.42			
		EEL Rank*4		A	A			
	Design Load		kW	4.0	5.0			
	Annual Electricity	Consumption*2	kWh/a	226	283			
	SEER*4		KTTIYO	6.1	6.1			
		Energy Efficiency C	lace*4	A++	A++			
leating	Capacity	Rated	kW	4.3	6.0			
verage		Rated	kW	1.16	1.31			
eason)	COP*4	Tracca	KVV	3.71	4.58			
	COI	EEL Rank*4		A A	4.50 A			
-	Design Load	EEL Nalik	kW	3.2	4.0			
		nce design temperature	kW	2.73	3.34			
		nt temperature	kW					
	- ut bivaici		kW	3.01	3.73			
		tion limit temperature		2.27	2.70			
	Back Up Heating Capacity Annual Electricity Consumption*2		kW	0.47	0.66			
		Consumption*2	kWh/a	1105	1455			
	SCOP*4		. v4	4.0	3.8			
	2	Energy Efficiency (A ⁺	A			
	g Current (max)		Α	12.2	18.0			
utdoor nit	Dimensions	$H \times W \times D$	mm	550 - 800 (+69) - 285 (+59.5)	710 - 840 (+30) - 330 (+66)			
iit	Weight		kg	32	57			
	Air Volume	Cooling	m³/min	29.2	37.5			
		Heating	m³/min	31.9	39.6			
	Sound Level (SPL)	Cooling	dB(A)	48	50			
		Heating	dB(A)	52	53			
	Sound Level (PWL)	Cooling	dB(A)	63	64			
	Operating Current	Cooling	А	5.1	5.0			
		Heating	А	5.6	5.8			
	Breaker Size		Α	15	25			
rt.	Port Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35 × 3 / 9.52 × 3			
ping	Total Piping Length	Total Piping Length (max)		30	50			
	Each Indoor Unit Pi	ping Length (max)	m	20	25			
	Max. Height		m	15 (10)* ³	15 (10)* ³			
	Chargeless Length		m	20	40			
uarante	ed Operating Range	Cooling	°C		~ +46			
Outdoor]	,	Heating	°C		~ +24			
		1						

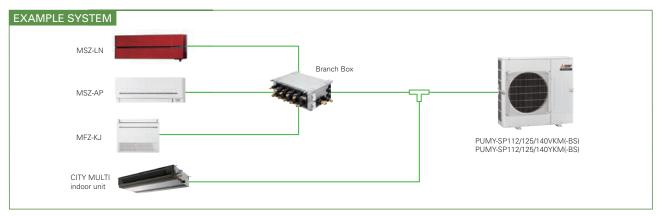
Healing Telescope (Property of the Autonomy of

PUMY-SP SERIES

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

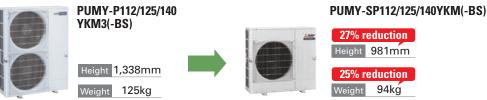


PUMY-SP112/125/140VKM(-BS) PUMY-SP112/125/140YKM(-BS)



Light weight and compact size

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



Unobstructive, compact, and easy to hide from view

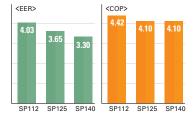
Conventional 2-fan type outdoor units may spoil the view. Due to its compact size, the new outdoor fan unit can be installed in locations that would have been inappropriate.



Industry's top energy efficiency*

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

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



Super silent mode*

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

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

Rear piping is available

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

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

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

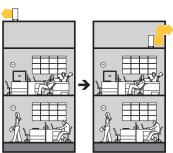
Easy installation and transportation

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



An external static pressure of 30Pa

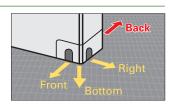
The installation location is flexible, thanks to its 30Pa static pressure. You can install it in locations that you could not before.



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.

















	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 380 - 400 - 415V 50Hz / 380V 60Hz			
Current Injust A	Cooling Capacity		¥1	kW	12.5	14.0	15.5	12.5	14.0	15.5	
ER	(nominal)	Power Input		kW	3.10	3.84	4.70	3.10	3.84	4.70	
Indoor Temp. W.B. 15.0 + 24.0°C 15.0 + 22.0°C 15.0°C 20.0°C		Current Inpu	ıt	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	
Cooling Outdoor Temp. ** D.B. .5.0 - 52°C .5.		EER		kW/kW	4.03	3.65	3.30	4.03	3.65	3.30	
Power Input No. 14.0 16.0 16.5 14.0 16.0 16.5 14.0 16.0 16.5 16.5 16.0 16.5 16.5 16.0 16.5 16.5 16.0 16.5 16.5 16.0 16.5 16.5 16.0 16.5 16.0 16.5 16.0 16.5 16.0 16.5 16.0 16.5 16.0 16.5 16.0 16.5 16.0 16.5 16.0 16.5 16.0 16.5 16.0 16.5 16.0 16.5 16.0 16.5 16.0 16.5 16.0 16.5 16.0 16.0 16.5 16.0 16.0 16.5 16.0 1	Temp. Range	Indoor Temp).	W.B.	15.0 - +24.0°C	15.0 - +24.0°C	15.0 - +24.0°C	15.0 - +24.0°C	15.0 - +24.0°C	15.0 - +24.0°C	
Power input No. 1.00 1	Temp. Range of Cooling* ⁵	Outdoor Ten	np. *3	D.B.	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	
Current Input A	Heating Capacity		*2	kW	14.0	16.0	16.5	14.0	16.0	16.5	
COP	(nominal)	Power Input	:	kW	3.17	3.90	4.02	3.17	3.90	4.02	
Indoor Temp. D.B. 15.0-27.0°C 15.00.2°C 15.00.2°		Current Inpu	ıt	А	14.70 - 14.06 - 13.48 / 14.70	18.09 - 17.30 - 16.58 / 18.09	18.65 - 17.83 - 17.09 / 18.65	5.07 - 4.82 - 4.64 / 5.07	6.24 - 5.93 - 5.71 / 6.24	6.43 - 6.11 - 5.89 / 6.43	
Mode		COP		kW/kW	4.42	4.10	4.10	4.42	4.10	4.10	
Model Quantity City Multi 15-140/19 15-140/10 15-140/12 15-140/19 15-140/10 15-140/12 15-140/19 15-140/1	Temp. Range	Indoor Temp).	D.B.	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	
Mode Quantity City Multi 15-140/9 15-140/10 15-140/12 15-140/9 15-140/10 15-140/12 15-140/9 15-140/10 15-140/12 15-140/9 15-140/10 15-140/12 15-140/9 15-140/10 15-140/12 15-140/9 15-140/10 15-140/12 15-140/9 15-140/10 15-140/15 15-1	of Heating	Outdoor Ten	np.	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	
Mixed Same Box 15-140/18 15-140/18 15-140/18 15-140/19 15-140/	Indoor Unit	Total Capacit	ty			50	to 130% of outdoor unit	capacity			
Mixed System Bax B	Connectable	Mixed Branch Box 1 unit Branch Box 2 units	City Multi	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12		
System Branch Box 15-100/5 15-100/6 15-100/8				Branch Box	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	
			City Multi	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5		
Box 2 units Branch Box 15-100/7 or 8** 15-100/8 15-100/7 or 8** 15-100/8 15-100/7 or 8** 15-100/8 15-100/7 or 8** 15-100/8			Branch Box	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5		
			Branch	City Multi	15 - 140 / 3 or 2*8	15 - 140 / 3	15 - 140 / 3	15 - 140 / 3 or 2*8	15 - 140 / 3	15 - 140 / 3	
Soling Heating Gooling Heating Gooling Heating Gooling Heating Gooling Heating Gooling Heating Gooling Heating Heat				Branch Box	15 - 100 / 7 or 8*8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 7 or 8*8	15 - 100 / 8	15 - 100 / 8	
	Sound Pressure Le (Cooling / Heating			dB <a>	52 / 54	53 / 56	54 / 56	52 / 54	53 / 56	54 / 56	
Type x Quantity	Sound Power Leve	el (Cooling)		dB <a>	72	73	74	72	73	74	
Type x Quantity Type x Qua		Liquid Pipe		mm	9.52 Flare						
Air Flow Rate	Diameter	Gas Pipe		mm	15.88 Flare						
L/s 1,283 1,383 1,383 1,283 1,283 1,383	Fan	Type x Quan	ntity		Propeller Fan × 1						
cfm 2,719 2,931 2,931 2,719 2,931		Air Flow Rate		,		83	83	77	83	83	
Motor Output kW 0.20 External Static Press. Pa 0 Pa / 30 Pa* ⁹ Type x Quantity Twin rotary hermetic compressor x 1 Starting Method Inverter Motor Output kW 3.1 3.5 3.7 3.1 3.5 3.7 external Dimensions (H × W × D) mm 981×1,050×330 (+40) tet Weight kg (lbs) 93 (205)*6 94 (207)*7* re-Chareged uantity kg 3.5 3.5 3.5 3.5 3.5 duantity CO₂ Equivalent t 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 9.0 9.0 9.0 9.0 9.0 9.0				L/s	1,283	1,383	1,383	1,283	1,383	1,383	
External Static Press. Pa				cfm	2,719	2,931	2,931	2,719	2,931	2,931	
Type x Quantity Twin rotary hermetic compressor x 1		Motor Outpu	ut	kW							
Starting Method Motor Output kW 3.1 3.5 3.7 3.1 3.5 3.7		External Station	c Press.	Pa							
Motor Output kW 3.1 3.5 3.7 3.1 3.5 3.7 xxternal Dimensions (H × W × D) mm 981×1,050×330 (+40) tet Weight kg (lbs) 93 (205)*6 94 (207)*7 re-Chareged uantity CO₂ Equivalent t 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	Compressor	Type x Quan	ntity		Twin rotary hermetic compressor x 1						
Action Dimensions H x W x D mm 981x1,050x330 (+40)		Starting Met	thod				Inve	erter			
Ref Ref				kW	3.1	3.5			3.5	3.7	
Weight kg 3.5 3		ns (H × W × D))				981×1,050	×330 (+40)			
Added Weight kg 9.0 9.0 9.0 9.0 9.0 9.0 9.0	Net Weight			0 1 1		93 (205)*6			94 (207)* ⁷		
lax Added Weight kg 9.0 9.0 9.0 9.0 9.0 9.0	Pre-Chareged			kg							
	Quantity		ent	t	7.31	7.31	7.31	7.31	7.31	7.31	
Luantity CO₂ Equivalent t 18.79 18.79 18.79 18.79 18.79 18.79	Max Added				9.0	9.0	9.0	9.0	9.0	9.0	
	Quantity	CO ₂ Equivale	ent	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/P25VBM, PFFY-P20/P25/P32VKM, PFFY-P20/P25/P32VLE(R)M indoor unit and M series indoor unit with connection kit and M series, S series, and P series type indoor unit with branch box.

*4 Up to P100 when connecting via branch box.

*5 Up to 11 units when connecting via 2 branch boxes.

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

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

*9 0 Pa as initial setting

Туре					Brand	ch Box		
Model Nam	е			PAC-MK53BC	PAC-MK33BC	PAC-MK53BCB	PAC-MK33BCB	
Connectabl	e Number of Indoo	r Units		Max. 5	Max. 3	Max. 5	Max. 3	
Power	Source				Outdoor power supply, Branch Bo	x / Outdoor separate power supply		
Supply	Outdoor (V/Phas	se/Hz)		1-phase, 220 - 230 - 240V, 50Hz				
Total Input			kW		0.0	003		
Operating C	Current		A 0.05					
Dimensions H × W × D mm				170 - 450 - 280				
Weight			kg	7.4	6.7	7.0	6.5	
Piping	Branch	Liquid	mm	6.35 × 5	6.35 × 3	6.35 × 5	6.35 × 3	
[diameter]	[Indoor Side]	Gas	mm	9.52 × 4, 12.7 × 1	9.52 × 3	9.52 × 4, 12.7 × 1	9.52 × 3	
	Main	Liquid	mm		9.52			
	[Outdoor Side]	Gas	mm	15.88				
	Connection Met	hod		Flared			d	
Wiring	to Indoor Unit	•			3-wire + Earth wire			
	to Outdoor Unit				3-wire +	Earth wire		

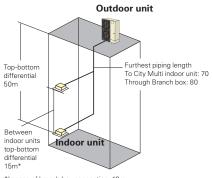
<Branch box compatible table>

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

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

Refrigerant Piping Lengths	Maximum meters	Vertical diff
Total length	120	Indoor/out
Maximum allowable length ······T	Indoor/out	
	unit: 70	Indoor/ind
Т	hrough Branch box: 80	

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



^{*}In case of branch box connection: 12m

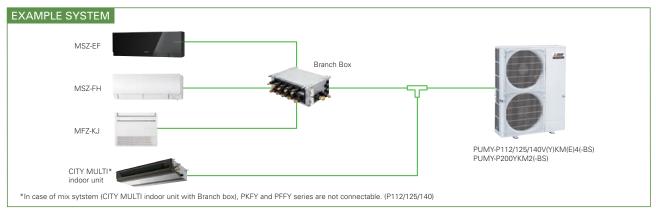
PUMY-P SERIES

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



R410A

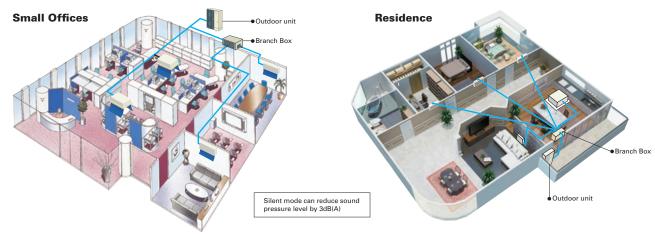
PUMY-P112/125/140VKM4(-BS) PUMY-P112/125/140YKM(E)4(-BS) PUMY-P200YKM2(-BS)



The two-pipe zoned system designed for Heat Pump Operation

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



				Maxim	um Meters	
			Only City Multi*1	Only Branch Box	Mixed System (City Multi*	Indoor Unit + Branch Box)
			Indoor Unit	Connection	City Multi*1 Indoor Unit	Via Branch Box
P112/125/140	Refrigerant Piping Length	Total Length	300	150	240 (2 Branch boxes)	/ 300 (1 Branch box)
		Maximum Allowable Length	150 (175 equivalent)	80	85 (95 equivalent)	80
		Farthest Indoor From First Branch	30	55	30	55
	Vertical Differentials	Indoor/Outdoor (Outdoor higher)	50	50	5	0
	Between Units	Indoor/Outdoor(Outdoor Lower)	40*2	40	4	0
		Indoor/Indoor	15*3	15*3	15	*3
P200	Refrigerant Piping Length	Total Length	150	150	15	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	5	0
	Between Units	Indoor/Outdoor (Outdoor Lower)	40	40	4	0
		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-P112/125/140VKM4(-BS), PUMY-P112/125/140YKM(E)4(-BS) only.
- * Noise level will increase when using this function.

















Cooling Capacity Fower Input No. 12.5 14.0 15.5 12.5 14.0 15.5 2.2.4	Model				PUMY-P112VKM4(-BS)	PUMY-P125VKM4(-BS)	PUMY-P140VKM4(-BS)	PUMY-P112YKM4(-BS)	PUMY-P125YKM4(-BS)	PUMY-P140YKM4(-BS)	PUMY-P200YKM2(-BS)					
Power Input	Power Source				1-pha	ase 220 - 230 - 240V !	50Hz		3-phase 380 - 400	- 415V 50Hz						
Figure The Course The Cou	Cooling Capacity		*1	kW	12.5	14.0	15.5	12.5	14.0	15.5	22.4					
Ref Mark Mile M	(nominal)	Power Input		kW	2.79	3.46	4.52	2.79	3.46	4.52	6.05					
Temp. Range of Cooling		Current Input	t	А	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 - 9.05					
Outdoor Temp.** D.B. -5.0-52°C -5		EER		kW/kW	4.48	4.05	3.43	4.48	4.05	3.43	3.70					
Heating Capacity Information Property Fig. Property Fig.	Temp. Range	Indoor Temp.		W.B.	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C					
Power Imput NW 14.0 16.0 1	of Cooling	Outdoor Tem	ıp.*5	D.B.	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C					
Proverling to the component of the co	Heating Capacity		*2	kW	14.0	16.0	18.0	14.0	16.0	18.0	25.0					
COP MV/KW 4.61 4.28 4.03 4.61 4.28 4.03 4.61 4.28 4.03 4.61 4.28 4.03	(nominal)	Power Input		kW	3.04	3.74	4.47	3.04	3.74	4.47	5.84					
Temp. Range of Hadding		Current Input	t	А	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 - 8.74					
of Heating Outdoor Temp. W.B. -20.0 - 15.0°C		COP		kW/kW	4.61	4.28	4.03	4.61	4.28	4.03	4.28					
Indoor Unit Connectable Model Quartity City Multi	Temp. Range	Indoor Temp.		D.B.	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C					
Connectable Model / Quarity City Multi 15-140/9 15-140/10 15-140/12 15-140/19 15-140/10	of Heating	Outdoor Tem	ıp.	W.B.	-20.0 - 15.0°C											
Mixed Stranch Box 15-100/8 15-100/5	Indoor Unit					50 to 130% of outdoor unit capacity										
Mixed System Starting Starting System	Connectable	Model / Quar	ntity	City Multi	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12	15 - 200 / 12					
System Box System Tunit* System Tuni				Branch Box	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8					
System Lunk*** Branch Box 15-100/5		IVIIAEU		City Multi	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 200 / 5					
Box 2 units 5 100 / 10		System 1	unit*5	Branch Box	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5					
2 units 5 lanch Box 15-100/7 or 8*4 15-100/8				City Multi	15 - 140 / 3 or 2*4	15 - 140 / 3	15 - 140 / 3	15 - 140 / 3 or 2*4	15 - 140 / 3	15 - 140 / 3	15 - 200 / 3					
Merigerant Piping Diameter Gas Pipe mm 9.52 Flare 9.52 *** 9.5		2	units*5	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					
Diameter Gas Pipe mm 15.88 Flare 19.1 Flare Fan Type x Quantity Propeller Fan x 2 L/S 1.883 2.316 Cfm 3,884 4,908 Motor Output kW 5croll hermetic compressor x 1 Type x Quantity Scroll hermetic compressor x 1 Motor Output kW 2.9 3.5 3.9 5.3 External Dimensions (H x W x D) mm 1,338×1,050×330 (+40)				dB <a>	49 / 51	50 / 52	51 / 53	49 / 51	50 / 52	51 / 53	56 / 61					
Type x Quantity		Liquid Pipe		mm			9.52	Flare			9.52*6 Flare					
Air Flow Rate L/s m³/min L/s 110 139 L/s 1,883 2,316 cfm 3,884 4,908 Compressor Motor Output kW 0.074 + 0.074 0.20 + 0.20 Carring Method Motor Output kW 2.9 3.5 1nverter External Dimensiors (H x W x D) mm 1,338×1,050×330 (+40)	Diameter	Gas Pipe		mm			15.88	Flare			19.1 Flare					
L/S 1,883 2,316	Fan	Type × Quan	tity				Propelle	r Fan × 2								
Cfm		Air Flow Rate	е	m³/min			11	10			139					
Motor Output kW 0.074 + 0.074 0.20 + 0.20 Compressor Starting Method Motor Output Type x Quantity Starting Method Motor Output Scroll hermetic compressor x 1 Invert External Dimensions II H x W x D) Mm 3.5 3.9 2.9 3.5 3.9 5.3				L/s			1,8	383			2,316					
Compressor Type x Quantity Scroll hermetic compressor x 1 Starting Method Inverter Motor Output kW 2.9 3.5 3.9 2.9 3.5 3.9 5.3 External Dimensions (H x W x D) mm 1,338×1,050×330 (+40)							3,8	384			4,908					
Starting Method		Motor Output kW					0.074 -	+ 0.074			0.20 + 0.20					
Motor Output kW 2.9 3.5 3.9 2.9 3.5 3.9 5.3 External Dimensions (H x W x D) mm 1,338×1,050×330 (+40)	Compressor	ompressor Type × Quantity					Scroll hermetic	compressor x 1								
External Dimensions (H x W x D) mm 1,338×1,050×330 (+40)		Starting Met	hod				Inve	erter								
		Motor Outpu	ıt	kW	2.9 3.5 3.9 2.9 3.5 3.9											
Weight kg 122 125 141	External Dimension	ns (H × W × D)		mm		7 7										
141 141 141 141 141 141 141 141 141 141	Weight			kg		122			125		141					

*1,*2 Nominal conditions

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

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

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

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

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

Model			PUMY-P112YKME4(-BS)	PUMY-P125YKME4(-BS)	PUMY-P140YKME4(-BS)					
Power Source				3-phase 380 - 400 - 415V 50Hz						
Cooling Capacity		*1 kW	12.5	14.0	15.5					
(nominal)	Power Input	kW	2.79	3.46	4.52					
	Current Input	A	4.99 / 4.74 / 4.57	5.84 / 5.55 / 5.35	7.23 / 6.87 / 6.62					
	EER	kW/kW	4.48	4.05	3.43					
emp. Range	Indoor Temp.	W.B.		15 to 24°C						
f Cooling	Outdoor Temp.	5 D.B.		−5 to 52°C						
leating Capacity		*2 kW	14.0	16.0	18.0					
ominal)	Power Input	kW	3.04	3.74	4.47					
	Current Input	A	5.43 / 5.16 / 4.98	6.31 / 6.00 / 5.78	7.15 / 6.79 / 6.55					
	COP	kW/kW	4.61	4.28	4.03					
emp. Range	Indoor Temp.	D.B.		15 to 27°C						
Heating	Outdoor Temp.	W.B.		−20 to 15°C						
door Unit	Total Capacity			50 to 130% of outdoor unit capacity						
onnectable	Model / Quantit	y City Multi	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12					
		Branch Box	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8					
	Mixed Bran	nch City Multi	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5					
	System Box	it*5 Branch Box	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5					
	Bran	ch City Multi	15 - 140 / 3 or 2*4	15 - 140 / 3	15 - 140 / 3					
	Box 2 un	ts*5 Branch Box	15 - 100 / 7 or 8*4	15 - 100 / 8	15 - 100 / 8					
ound Pressure Loneasured in anec		dB <a>	49 / 51	50 / 52	51 / 53					
frigerant Piping	Liquid Pipe	mm		9.52 Flare						
ameter	Gas Pipe	mm		15.88 Flare						
n	Type × Quantity	,		Propeller Fan × 2						
	Air Flow Rate	m³/min		110						
		L/s		1,833						
		cfm		3,884						
	Motor Output	kW		0.074 + 0.074						
ompressor	Type × Quantity	, .		Scroll hermetic compressor x 1						
	Starting Metho	d		Inverter						
	Motor Output	kW	2.9	3.9						
xternal Dimensio	ns (H × W × D)	mm		1,338×1,050×330 (+40)						
Veight		kg	136							

*1,*2 Nominal conditions

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

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

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

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

Туре					Branc	th Box								
Model Name	е			PAC-MK53BC	PAC-MK33BC	PAC-MK53BCB	PAC-MK33BCB							
Connectable	Number of Indoo	r Units		Max. 5	Max. 3	Max. 5	Max. 3							
Power	Source				Outdoor power supply, Branch Bo	x / Outdoor separate power supply								
Supply	Outdoor (V/Phas	e/Hz)			1-phase, 220/230/240V, 5	0Hz, 1-phase, 220V, 60Hz								
Total Input			kW		0.0	003								
Operating C	urrent		Α		0.	05								
Dimensions		$H \times W \times D$	mm		170 - 450 - 280									
Weight			kg	7.4	7.0	6.5								
Piping	Branch	Liquid	mm	6.35 × 5	6.35 × 5	6.35 × 3								
[diameter]	[Indoor Side]	Gas	mm	9.52 × 4, 12.7 × 1	9.52 × 3	9.52 × 4, 12.7 × 1	9.52 × 3							
	Main	Liquid	mm		9.	52								
	[Outdoor Side]	Gas	mm		15	.88								
	Connection Met	hod		Fla	ared	Braze	ed							
Wiring	to Indoor Unit				3-wire +	Earth wire								
	to Outdoor Unit			3-wire + Earth wire										

Indoor Unit Compatibility Table

■ MXZ Series R32

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

		Outdoor Unit			Inverter Models			
door Unit			MXZ- 2F33VF	MXZ- 2F42VF	MXZ- 2F53VF(H)	MXZ- 3F54VF	MXZ- 3F68VF	MXZ- 4F72V
series	Wall-	MSZ-LN18VG(W)(V)(R)(B)	0	•	2. 551. (1.)	•	0.0011	
	Mounted	MSZ-LN25VG(W)(V)(R)(B)	•	•	•	•	•	•
		MSZ-LN35VG(W)(V)(R)(B)		•	•	•	•	•
		MSZ-LN50VG(W)(V)(R)(B)						
		MSZ-AP15VF	•	•	•	•	•	•
		MSZ-AP20VF	•	•	•	•	•	•
		MSZ-AP25VG	•		•	•	•	•
		MSZ-AP35VG		•	•	•	•	•
		MSZ-AP42VG			•	•	•	•
		MSZ-AP50VG			•	•	•	•
		MSZ-FH25VE2						
		MSZ-FH35VE2						
		MSZ-FH50VE2						
		MSZ-EF18VE3(W)(B)(S)	•	•	•	•	•	•
		MSZ-EF22VE3(W)(B)(S)	•		•	•		•
		MSZ-EF25VE3(W)(B)(S)	•	•	•	•	•	•
		MSZ-EF35VE3(W)(B)(S)						•
		MSZ-EF33VE3(W)(B)(S) MSZ-EF42VE3(W)(B)(S)		•	•	•	•	•
		MSZ-EF50VE3(W)(B)(S)			•	•	•	•
		MSZ-SF15VA						
		MSZ-SF20VA						
		MSZ-SF25VE3						
		MSZ-SF35VE3						
		MSZ-SF42VE3						
		MSZ-SF50VE3						
		MSZ-GF60VE2						
		MSZ-GF71VE2						
		MSZ-DM25VA						
		MSZ-DM35VA						
		MSZ-HJ25VA						
		MSZ-HJ35VA						
		MSZ-HJ50VA						
	Floor- Standing	MFZ-KJ25VE2						
	Otanung	MFZ-KJ35VE2						
		MFZ-KJ50VE2						
	1-way Cassette	MLZ-KP25VF	•	•	•	•	•	•
	Ousselle	MLZ-KP35VF		•	•	•	•	•
		MLZ-KP50VF				•	•	•
series	2×2 Cassette	SLZ-M15FA	•	•	•	•	•	•
	Casselle	SLZ-M25FA	•	•	•	•	•	•
		SLZ-M35FA		•	•	•	•	•
		SLZ-M50FA				•	•	•
	Ceiling-	SEZ-M25DA*2	•	•	•	•	•	•
	Concealed	SEZ-M25DAL*2	•	•	•	•	•	•
		SEZ-M35DA		•	•	•	•	•
		SEZ-M35DAL		•	•	•	•	•
		SEZ-M50DA				•	•	•
		SEZ-M50DAL				•	•	•
		SEZ-M60DA					•	•
		SEZ-M60DAL					•	•
		SEZ-M71DA						
		SEZ-M71DAL						
series	4-way	PLA-RP50EA						
	Cassette	PLA-RP60EA						
	<u></u>	PLA-RP71EA						
	Ceiling-	PCA-M50KA				•	•	•
	Suspended	PCA-M60KA					•	•
		PCA-M71KA						
	Ceiling-	PEAD-M50JA				● *1	●*1	•.
	Concealed	PEAD-M50JAL				• *1	●*1	•.
		PEAD-M60JA						
		PEAD-M60JAL						
		PEAD-M71JA						

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

■ MXZ Series R410A

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

oor Linia	_		MXZ-*3 2D33VA		MXZ-*3 2D53VA(H)2	MXZ-*3 2F53VAH7	MXZ-*3 2DM40VA	MXZ-*3 3E54VA	MXZ-*3 3E68VA	MXZ-*3 3DM50VA	MXZ-*3 4E72VA	MXZ-*3 4E83VA	MXZ-*3 4E83VAHZ	MXZ-*3 5E102VA	
oor Unit	Wall-	MSZ-LN18VG(W)(V)(R)(B)	ZDSSVA	ZD4ZVAZ	2D35VA(П)2	ZE33VANZ	ZDIVI4UVA	3E34VA	SECOVA	SDIVIOU VA	+L/ZVA	#E03VA	→L03VA⊓Z	JE IUZVA	00122
361163	Mounted	MSZ-LN25VG(W)(V)(R)(B)	•	•	•	•		•	•		•	•	•	•	•
		MSZ-LN35VG(W)(V)(R)(B)		•	•			•	•		•	•		•	
		MSZ-LN50VG(W)(V)(R)(B)													
		MSZ-AP15VF	•	•	•	•		•	•		•		•	•	_
		MSZ-AP20VF	•	•	•	•		•	•		•	•	•	•	
		MSZ-AP25VG*7	•	•	•	•		•	•			•	•	•	(
		MSZ-AP35VG*7		•	•	•		•	•		•	•	•	•	(
		MSZ-AP42VG*7			•									•	(
		MSZ-AP50VG*7			•	•		•	•		•	•	•	•	
		MSZ-FH25VE2	•	•	•										
		MSZ-FH35VE2		•	•			•	•					•	
		MSZ-FH50VE2											•		
		MSZ-EF18VE3(W)(B)(S)	•	•	•				•		•		•		
		MSZ-EF22VE3(W)(B)(S)	•	•	•			•	•				•	•	
		MSZ-EF25VE3(W)(B)(S)	•	•	•	•		•	•		•		•	•	
		MSZ-EF35VE3(W)(B)(S)		•				•			•			•	
		MSZ-EF42VE3(W)(B)(S)			•	•		•	•		•	•	•	•	
		MSZ-EF50VE3(W)(B)(S)			•	•		•	•		•	•	•	•	
		MSZ-SF15VA	•	•	•	•		•	•		•	•	•	•	
		MSZ-SF20VA		•	•	•						•	•	•	
		MSZ-SF20VA MSZ-SF25VE3												•	
		MSZ-SF25VE3							_				_		_
				•	•	•		•	•		•		•	•	
		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			•		•	
	1-way	MLZ-KP25VF	•	•	•	•		•	•		•	•	•	•	
	Cassette	MLZ-KP35VF			•	•		•	•			•		•	
		MLZ-KP50VF						•	•		•	•	•	•	
eries	2×2	SLZ-M15FA													
eries	Cassette	SLZ-M15FA	•												
			_	•	•	•		•	•		•	•	•	•	_
		SLZ-M35FA		•	•	•		•	•		•	•	•	•	
		SLZ-M50FA						•	•		•	•	•	•	
	Ceiling- Concealed	SEZ-M25DA*2	•	•	•	•			•			•	•	•	
	Conocaica	SEZ-M25DAL*2	•	•	•	•		•	•		•	•	•	•	_
		SEZ-M35DA		•	•	•		•	•		•	•	•	•	
		SEZ-M35DAL		•	•	•		•	•		•	•	•	•	
		SEZ-M50DA						•	•		•	•	•	•	
		SEZ-M50DAL						•	•		•	•	•	•	
		SEZ-M60DA							•		•	•	•	•	
		SEZ-M60DAL							•		•	•	•	•	
		SEZ-M71DA										•	•	•	
		SEZ-M71DAL										•	•	•	
eries	4-way	PLA-RP50EA						•	•		•	•	•	•	
03	Cassette	PLA-RP60EA							•		•	•	•*6	•	
		PLA-RP71EA											•*6	•	
	Ceiling-	PCA-M50KA						6							_
	Suspended							•	•		•	•	•*6	•	
		PCA-M60KA							•			•	6 *6	•	
		PCA-M71KA										•	● *6	•	
	Ceiling-	PEAD-M50JA						• *1	●*1		● *1	• *1	*1*6	• *1	
	Concealed	PEAD-M50JAL						● *1	● *1		● *1	● *1	● *1*6	● *1	
		PEAD-M60JA										• *1	* 1*6	●* 1	
		PEAD-M60JAL										●*1	● *1*6	●*1	
		PEAD-M71JA										• *1	* 1*6	• *1	
															-

^{*1} Maximum total current of indoor units: 3A or less.
*2 SEZ-KD25 cannot be connected with MXZ-2D(E)/3E/4E/5E when total capacity of connected indoor units is equivalent to outdoor capacity (capacity ratio is 1).
*3 MXZ outdoor units are not designed to operate with a single indoor unit with one-to-one piping work. Please install at least two indoor units.
*4 When connecting the MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please refer to page 102.
*5 Regarding MXZ-2D33, the second unit should be a different type in the case of selecting one MFZ-KJ.
*6 P series cannot be connected with MXZ-4E83VAHZ when ampere limit adjustment function is operated.
*7 Connectable outdoor unit are MXZ-2D33VA-E4, MXZ-2D42VA2-E4, MXZ-2D53VA2-E4, MXZ-2E53VAHZ-E2, MXZ-3E68VA-E2, MXZ-4E72VA-E2, MXZ-4E83VA-E4, MXZ-4E83VAHZ-E3, MXZ-5E102VA-E4.

■ PUMY-SP Series

Branch Box Connection Compatibility Table

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

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

LEV Kit Connection Compatibility Table

	, , , , , ,	CONTINUE CHIOTI CON	ipationity rabio										
ı	Series	1/11/75	Model Name					Сар	acity				
	Series	I/U Type	Model Name	15	18	20	22	25	35	42	50	60	71
	M series	Wall-Mounted	MSZ-LN•VG					•	•				
			MSZ-AP•VF/VG	● *1		● *1		• *1	● *1	● *1	● *1		
			MSZ-FH•VE2					•	•		•		
			MSZ-EF•VE3		•		•	•	•	•	•		
			MSZ-SF•VA	•		•							
			MSZ-SF•VE3					•	•	•	•		
		Floor-Standing	MFZ-KJ•VE2										

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

CITY MULTI Indoor Unit Compatibility Table

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

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

■ PUMY-P Series

Branch Box Connection Compatibility Table

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

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

LEV Kit Connection Compatibility Table

EEV NIC Commedian Companianty Table														
Series	I/U Type	Model Name	Capacity											
			15	18	20	22	25	35	42	50	60	71		
M series	Wall-Mounted	MSZ-LN•VG					•	•						
		MSZ-AP•VG	•		•		•	•	•	•				
		MSZ-FH•VE2					•	•		•				
		MSZ-EF•VE3		•		•	•	•	•	•				
		MSZ-SF•VA	•		•									
		MSZ-SF•VE3					•	•	•	•				
	Floor-Standing	MFZ-KJ•VE2					•	•		•				

CITY MULTI Indoor Unit Compatibility Table

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

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

POWERFUL HEATING







SELECTION

Choose the series that best matches the building layout.







LN VGHZ SERIES FH VEHZ SERIES SERIES Single / Multi SERIES SERIES

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



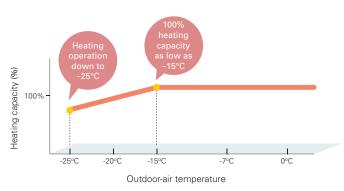


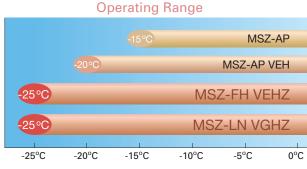


MSZ-FH25/35/50VE2

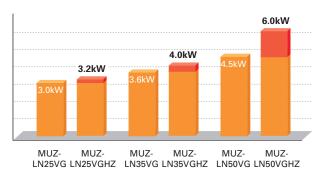
Unparalleled Heating Performance

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

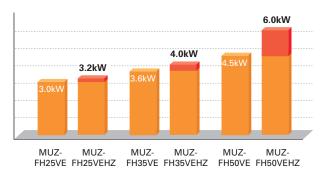




Declared Capacity (at reference design temperature)



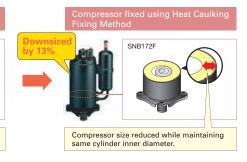
Declared Capacity (at reference design temperature)



Compact, Powerful Compressor

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

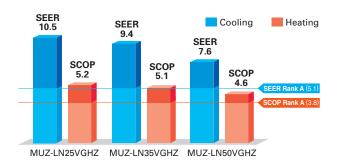


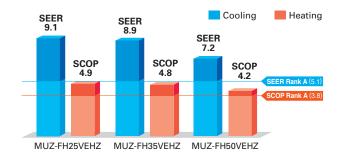


High Energy Efficiency – Energy Rank of A⁺ or higher for All Models



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





Freeze-prevention Heater Equipped as Standard

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

Operation Guaranteed at Outside Temperature of -25°C





Without Freeze-prevention heater

With Freeze-prevention heater



Гуре						Inverter Heat Pump			
door Ur	nit				MSZ-LN25VG(W)(V)(R)(B)	MSZ-LN35VG(W)(V)(R)(B)	MSZ-LN50VG(W)(V)(R)(B)		
utdoor l	Unit				MUZ-LN25VGHZ	MUZ-LN35VGHZ	MUZ-LN50VGHZ		
efrigera	nt					R32 (*1)			
ower	Source					Outdoor Power supply			
upply	Outdoor (V/Phase/H	lz)				230/Single/50			
ooling	Design Load			kW	2.5	3.5	5.0		
	Annual Electricity C	onsumpti	on (*2)	kWh/a	83	130	230		
	SEER (*4)				10.5	9.4	7.6		
		Energy	Efficiency Class		A+++	A+++	A++		
	Capacity	Rated		kW	2.5	3.5	5.0		
		Min - M	ax	kW	0.8 - 3.5	0.8 - 4.0	1.4 - 5.8		
	Total Input	Rated		kW	0.485	1.380			
eating	Design Load			kW	3.2 (-10°C)	0.820 4.0 (-10°C)	6.0 (-10°C)		
verage	Declared Capacity	Declared Capacity at reference design temperature			3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)		
eason)(*5)		at bivale	ent temperature	kW	3.2 (-10°C) 4.0 (-10°C)		6.0 (-10°C)		
			tion limit temperature	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 C	onsumpti	on (*2)	kWh/a	849	1082	1826		
	SCOP (*4)				5.2	5.1	4.6		
		Energy	Efficiency Class		A+++	A+++	A++		
	Capacity	Rated		kW	3.2	4.0	6.0		
	, ,	Min - M	ax	kW	1.0 - 6.3	1.0 - 6.6	1.8 - 8.7		
	Total Input Rated		kW	0.580	0.800	1.480			
peratin	g Current (max)			А	9.9	10.5	15.2		
door	Input Rated			kW	0.029	0.029	0.034		
nit	Operating Current (max)		Α	0.3	0.3	0.4			
	Dimensions H × W × D		mm	307 - 890 - 233 307 - 890 - 233		307 - 890 - 233			
	Weight			kg	15.5		15.5		
	Air Volume		Cooling	m³/min	4.3 - 5.8 - 7.1 - 8.8 - 11.9	4.3 - 5.8 - 7.1 - 8.8 - 12.8	5.7 - 7.6 - 8.9 - 10.6 - 13.9		
	(SLo-Lo-Mid-Hi-SHi(*3)	Dry/Wet))	Heating	m³/min	4.0 - 5.7 - 7.1 - 8.5 - 14.4	4.3 - 5.7 - 7.1 - 8.5 - 13.7	5.4 - 6.4 - 8.5 - 10.7 - 15.3		
	Sound Level (SPL)		Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	27 - 31 - 35 - 39 - 46		
	(SLo-Lo-Mid-Hi-SHi (*	3)	Heating	dB(A)	19 - 24 - 29 - 36 - 45	19 - 24 - 29 - 36 - 45	25 - 29 - 34 - 39 - 47		
	Sound Level (PWL)			dB(A)	58	58	60		
utdoor	Dimensions		$H \times W \times D$	mm	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330		
nit	Weight		1	kg	35	36	55		
	Air Volume		Cooling	m³/min	31.4	33.8	48.8		
			Heating	m³/min	27.4	27.4	51.3		
	Sound Level (SPL)		Cooling	dB(A)	46	49	51		
			Heating	dB(A)	49	50	54		
	Sound Level (PWL)		Cooling	dB(A)	60	61	64		
	Operating Current (max)			Α	9.6	10.2	14.8		
	Breaker Size				10	12	16		
xt.	Diameter		Liquid / Gas	A 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		
iuarante	ed Operating Range		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46		
Guaranteed Operating Range Cooling °C [Outdoor] Heating °C				-25 ~ +24	-25 ~ +24	-25 ~ +24			

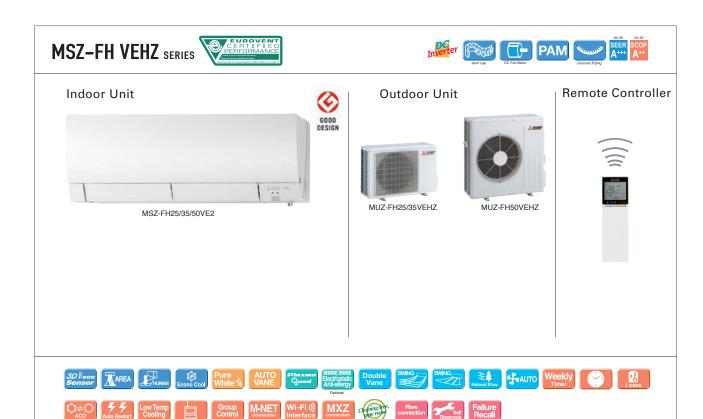
^(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that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

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

(*3) SHI: Super High

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

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



уре						Inverter Heat Pump					
ndoor Un	iit				MSZ-FH25VE2	MSZ-FH35VE2	MSZ-FH50VE2				
utdoor (Jnit				MUZ-FH25VEHZ	MUZ-FH35VEHZ	MUZ-FH50VEHZ				
efrigerar	nt					R410A (*1)					
ower	Source					Outdoor power supply					
upply	Outdoor (V/Phase/H	lz)			230 / Single / 50						
ooling	Design Load			kW	2.5	3.5	5.0				
_	Annual Electricity Co	onsumpti	on (*2)	kWh/a	96	138	244				
	SEER (*4)				9.1	8.9	7.2				
		Energy	Efficiency Class		A+++	A+++	A++				
	Capacity	Rated		kW	2.5	3.5	5.0				
		Min - Ma	3X	kW	0.8 - 3.5	0.8 - 4.0	1.9 - 6.0				
	Total Input	Rated		kW	0.485	1.380					
ating	Design Load			kW	3.2	0.820 4.0	6.0				
verage	Declared Capacity at reference design temperature			kW	3.2	4.0	6.0				
ason)(+5)		at bivale	nt temperature	kW	3.2	4.0	6.0				
			tion limit temperature	kW	1.7	2.6	3.8				
	Back Up Heating Ca		,	kW	0.0	0.0	0.0				
	Annual Electricity Co	onsumpti	on (*2)	kWh/a	924	1173	2006				
	SCOP (*4)				4.9	4.8	4.2				
		Energy	Efficiency Class		A++	A++	A ⁺				
	Capacity	Rated		kW	3.2	4.0	6.0				
		Min - Max		kW	1.0 - 6.3	1.0 - 6.6	1.7 - 8.7				
	Total Input Rated		kW	0.580	0.800	1.480					
perating	g Current (max)			Α	9.6	10.5	14.0				
door	Input Rated			kW	0.029	0.029	0.031				
nit	Operating Current (max)			Α	0.4	0.4	0.4				
	Dimensions H × W × D			mm		305 (+17) - 925 - 234					
	Weight			kg	13.5	13.5	13.5				
	Air Volume	•		m³/min	3.9 - 4.7 - 6.3 - 8.6 - 11.6 (10.5)	3.9 - 4.7 - 6.3 - 8.6 - 11.6 (10.5)	6.4 - 7.4 - 8.6 - 10.1 - 12.4				
	(SLo-Lo-Mid-Hi-SHi (*3) (Dry/Wet))	Heating	m³/min	4.0 - 4.7 - 6.4 - 9.2 - 13.2	4.0 - 4.7 - 6.4 - 9.2 - 13.2	5.7 - 7.2 - 9.0 - 11.2 - 14.6				
	Sound Level (SPL)		Cooling	dB(A)	20 - 23 - 29 - 36 - 42	21 - 24 - 29 - 36 - 42	27 - 31 - 35 - 39 - 44				
	(SLo-Lo-Mid-Hi-SHi ^(*)	3))	Heating	dB(A)	20 - 24 - 29 - 36 - 44	21 - 24 - 29 - 36 - 44	25 - 29 - 34 - 39 - 46				
	Sound Level (PWL)			dB(A)	58	58	60				
ıtdoor	Dimensions		$H \times W \times D$	mm	550 - 8	00 - 285	880 - 840 - 330				
nit	Weight		Į.	kg	37	37	55				
	Air Volume		Cooling	m³/min	31.3	33.6	48.8				
			Heating	m³/min	31.3	33.6	51.3				
	Sound Level (SPL)		Cooling	dB(A)	46	49	51				
			Heating	dB(A)	49	50	54				
	Sound Level (PWL) Cooling		dB(A)	60	61	64					
	Operating Current (max)			Α	9.2	10.1	13.6				
	Breaker Size				10	12	16				
rt.	Diameter		Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7				
ping	Max. Length		Out-In	m	20	20	30				
	Max. Height		Out-In	m	12	12	15				
uarante	ed Operating Range		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46				
	ed Operating Range		Heating	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24				

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

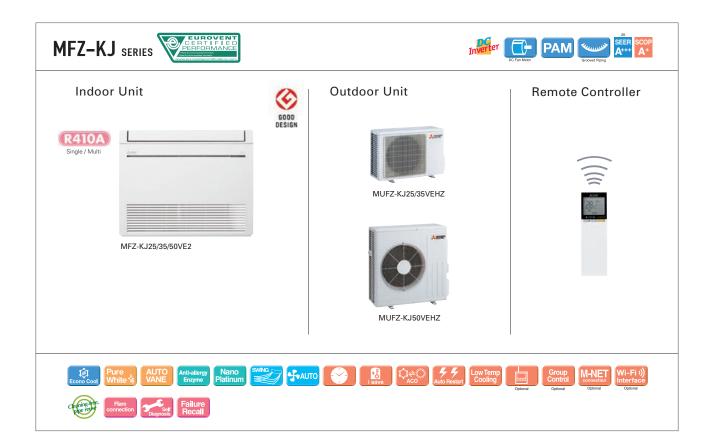
The GWP of R41Da is 2088 in the IPCC 4th Assessment Report.

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

(*3) SHI: Super High

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

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



Type						Inverter Heat Pump				
Indoor Un	it				MFZ-KJ25VE2	MFZ-KJ35VE2	MFZ-KJ50VE2			
Outdoor U	Init				MUFZ-KJ25VEHZ	MUFZ-KJ35VEHZ	MUFZ-KJ50VEHZ			
Refrigerar	it					R410A (*1)				
Power	Source					Outdoor power supply				
Supply	Outdoor (V/Phase/H	lz)				230 / Single / 50				
Cooling	Design Load			kW	2.5	3.5	5.0			
	Annual Electricity Co	onsumptio	on (*2)	kWh/a	102	150	266			
	SEER (* 4)				8.5	8.1	6.5			
		Energy	Efficiency Class		A+++	A++	A++			
	Capacity	Rated		kW	2.5	3.5	5.0			
		Min - Ma	ЭX	kW	0.5 - 3.4	0.5 - 3.7	1.6 - 5.7			
	Total Input	Rated		kW	0.540	0.940	1.410			
Heating	Design Load			kW	3.5	3.6	4.5			
(Average	Declared Capacity	at refere	nce design temperature	kW	3.5	3.6	4.5			
Season)		at bivale	nt temperature	kW	3.5	3.6	4.5			
		at operat	tion limit temperature	kW	1.6	2.3	3.3			
	Back Up Heating Cap	oacity		kW	0.0	0.0	0.0			
	Annual Electricity Co	onsumptio	on (*2)	kWh/a	1104	1158	1467			
	SCOP (*4)				4.4	4.3	4.2			
		Energy	Efficiency Class		A+	A+	A ⁺			
	Capacity	Rated		kW	3.4	4.3	6.0			
	Min - Max		ЭX	kW	1.2 - 5.1	1.2 - 5.8	2.2 - 8.4			
	Total Input Rated		kW	0.770	1.100	1.610				
Operating	g Current (max)			Α	4.42	3.91	3.73			
Indoor I	Input Rated			kW	0.016	0.016	0.038			
Unit	Operating Current (max)			Α	0.17	0.17	0.34			
	Dimensions	Dimensions H × W × D				600 - 750 - 215				
	Weight			kg	15	15	15			
	Air Volume		Cooling	m³/min	3.9 - 4.9 - 5.9 - 7.1 - 8.2	3.9 - 4.9 - 5.9 - 7.1 - 8.2	5.6 - 6.7 - 8.0 - 9.3 - 10.6			
	(SLo-Lo-Mid-Hi-SHi (*3) ([Ory/Wet))	Heating	m³/min	3.9 - 5.1 - 6.2 - 7.7 - 9.7	3.9 - 5.1 - 6.2 - 7.7 - 9.7	6.0 - 7.4 - 9.4 - 11.6 - 14.0			
	Sound Level (SPL)	70	Cooling	dB(A)	20 - 25 - 30 - 35 - 39	20 - 25 - 30 - 35 - 39	27 - 31 - 35 - 39 - 44			
	(SLo-Lo-Mid-Hi-SHi(*3	3))	Heating	dB(A)	19 - 25 - 30 - 35 - 41	19 - 25 - 30 - 35 - 41	29 - 35 - 40 - 45 - 50			
	Sound Level (PWL)			dB(A)	49	50	56			
	Dimensions		$H \times W \times D$	mm	550 - 80	00 - 285	880 - 840 - 330			
Unit	Weight			kg	37	37	55			
	Air Volume		Cooling	m³/min	31.3	31.3	45.8			
			Heating	m³/min	33.6	33.6	45.8			
	Sound Level (SPL)		Cooling	dB(A)	46	47	49			
			Heating	dB(A)	51	51	51			
	Sound Level (PWL)		Cooling	dB(A)	59	60	63			
	Operating Current (n	Operating Current (max)			9.2	10	13.6			
	Breaker Size	-			10	12	16			
Ext.	Diameter		Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7			
Piping	Max. Length		Out-In	m	20	20	30			
	Max. Height		Out-In	m	12	12	15			
	d Operating Range		Cooling	℃	-10 ~ +46	-10 ~ +46	-10 ~ +46			
[Outdoor]			Heating	$^{\circ}$ 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 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) Elic super High

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

ZUBADAN SERIES

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

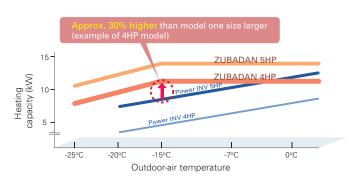


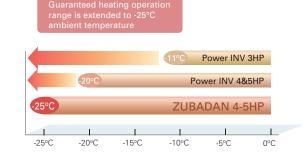
* Units in photo are Japanese models.

European model specifications are different.

Improved Heating Performance

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

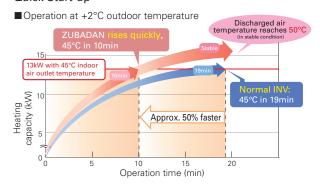


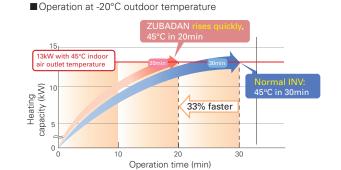


Enhanced Comfort

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

Quick Start-up





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

© Operation data for 25 Jan. 2005

© Operation data for 2 Dec. 2004

© Ope

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



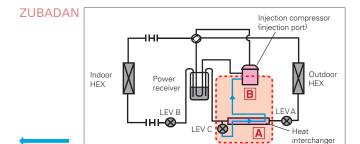
Powerful heating yet annually high energy efficiency in both cooling and heating, achieving rank A and A+.

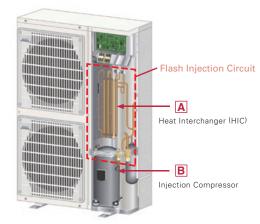


Mitsubishi Electric's Flash Injection Technology The Key to High Heating Performance at Low Outdoor Temperatures

(HIC)

■Flash Injection Circuit





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

Flash Injection Circuit

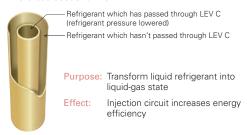
In traditional units, when the outdoor temperature is low, the volume of refrigerant circulating in the compressor decreases due to the drop in refrigerant pressure and the protection from overheating caused by high compression, thereby reducing heating capacity. The Flash Injection Circuit injects refrigerant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

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

A Heat Interchanger (HIC)

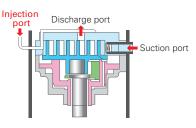
HIC cross-sectional view

Refrigerant



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

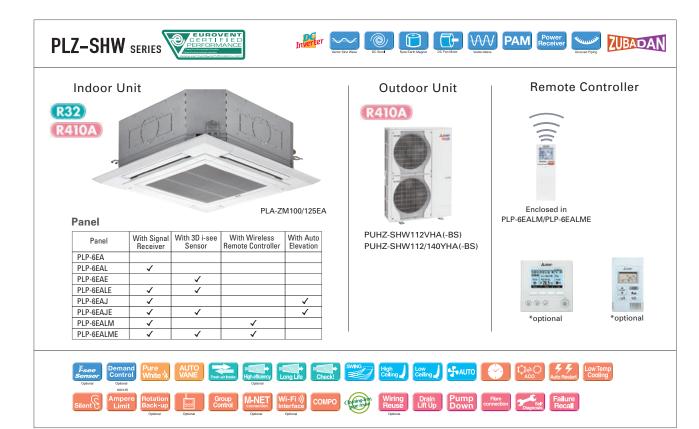
B Injection Compresso



Purpose: To increase the volume of refrigerant being circulated

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

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



уре					Inverter Heat Pump			
ndoor Ur					ZM100EA	PLA-ZM125EA		
Outdoor I				PUHZ-SHW112VHA	PUHZ-SHW112YHA	PUHZ-SHW140YHA		
Refrigera	nt				R410A*1			
ower	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			5.5	5.5	_		
		Energy Efficiency Class		А	A	_		
eating	Capacity	Rated	kW	11.2	11.2	14.0		
Average Season)		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0		
reason)	Total Input	Rated	kW	2.667	2.667	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)	-		
1		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 Cap		kW	1.5	1.5	_		
	Annual Electricity Co	onsumption*2	kWh/a	4420	4420	_		
	SCOP			4.0	4.0	_		
		Energy Efficiency Class		A ⁺	A ⁺			
peratin	g Current (max)		Α	35.5 13.5		13.5		
door	Input	Rated	kW	0.07	0.07	0.08		
nit	Operating Current (r		Α	0.47	0.47	0.52		
	Dimensions <panel></panel>	$H \times W \times D$	mm		298-840-840 <40-950-950>			
	Weight <panel></panel>		kg	26 <5>	26 <5>	26 <5>		
	Air Volume [Lo-Mi2-N	-	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		
	Dimensions	$H \times W \times D$	mm		1350 - 950 - 330 (+30)			
nit	Weight	T	kg	120	134	134		
	Air Volume	Cooling	m³/min	100	100	100		
		Heating	m³/min	100	100	100		
	Sound Level (SPL)	Cooling	dB(A)	51	51	51		
		Heating	dB(A)	52	52	52		
	Sound Level (PWL)	Cooling	dB(A)	69	69	69		
	Operating Current (r	nax)	Α	35	13	13		
	Breaker Size	T.	Α	40	16	16		
xt.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88		
iping	Max. Length	Out-In	m	75	75	75		
	Max. Height	Out-In	m	30	30	30		
	ed Operating Range	Cooling*3	°C	-15 ~ +46	−15 ~ +46	-15 ~ +46		
[Outdoor]		Heating	°C	-25 ~ +21	−25 ~ +21	-25 ~ +21		

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

PLZ-SHW SERIES





















Panel

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

Outdoor Unit

R410A



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

Remote Controller



Enclosed in PLP-6EALM/PLP-6EALME







PLP-6EALM PLP-6EALME























































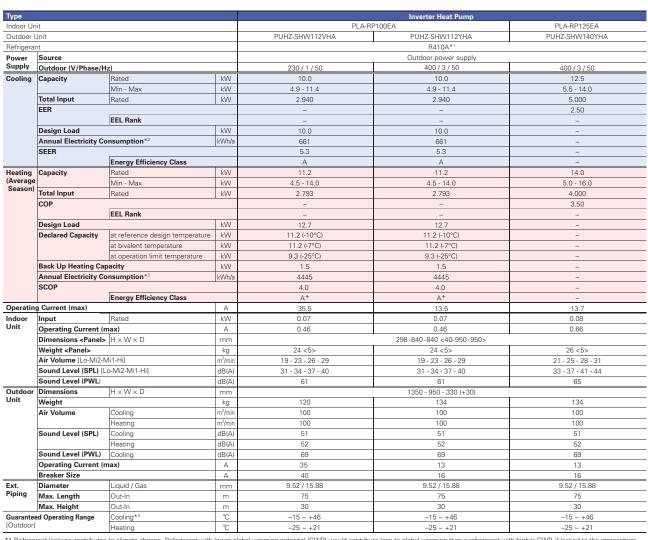








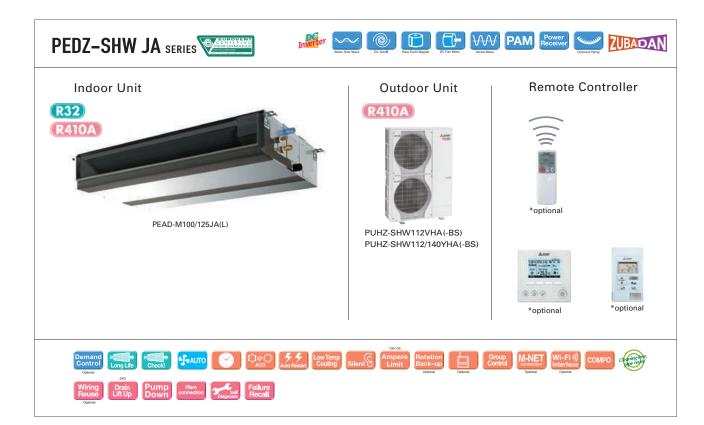




^{*1} Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that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

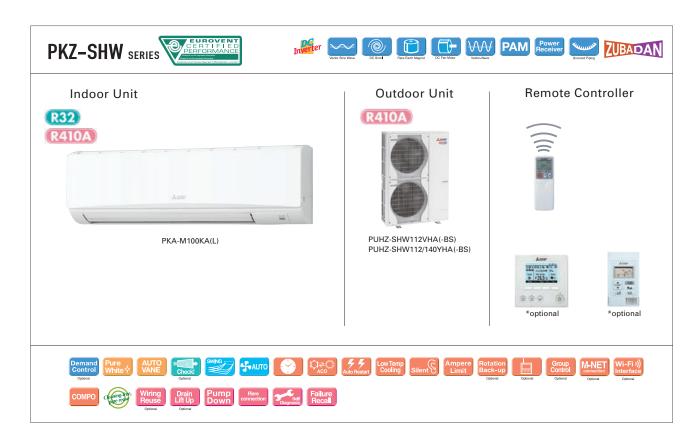
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

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



Туре					Inverter Heat Pump					
ndoor Ur	nit			PEAD-N	V100JA(L)	PEAD-M125JA(L)				
Outdoor I	Unit			PUHZ-SHW112VHA(-BS)	PUHZ-SHW112YHA(-BS)	PUHZ-SHW140YHA(-BS)				
efrigera	nt				R410A*1					
ower	Source				Outdoor power supply					
upply	Outdoor (V/Phase/H	z)		VHA:230 / Single / 50, YHA:400 / Three / 50						
Cooling	Capacity	Rated	kW	10.0	10.0	12.5				
		Min - Max	kW	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0				
	Total Input	Rated	kW	2.924 (2.904)	2.924 (2.904)	3.895 (3.875)				
	EER			_	_	3.21 (3.22)				
		EEL Rank		_	_	_				
	Design Load		kW	10.0	10.0	_				
	Annual Electricity Co	onsumption*2	kWh/a	729 (714)	729 (714)	_				
	SEER			4.8 (4.9)	4.8 (4.9)	_				
		Energy Efficiency Class		В	В	_				
eating	Capacity	Rated	kW	11.2	11.2	14.0				
verage		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0				
eason)	Total Input	Rated	kW	3.103	3.103	3.879				
	СОР	1			_	3.61				
		EEL Rank			_	-				
	Design Load			12.7	12.7	_				
	Declared Capacity	at reference design temperature	kW kW	11.2	11.2					
	Dooiar ou oupdonly	at bivalent temperature	kW	11.2	11.2	_				
,		at operation limit temperature	kW	9.4	9.4					
	Back Up Heating Car		kW	1.5	1.5					
	Annual Electricity Consumption*2 kWh/a			4664	4664	_				
	SCOP		A VIII/CI	3.8	3.8					
	2301	Energy Efficiency Class		A	A A					
neratin	Current (max)		Α	37.7	15.7	15.8				
door	Input [Cooling / Heating	ngl Rated	kW	0.25 (0.23) / 0.23	0.25 (0.23) / 0.23	0.36 (0.34) / 0.34				
nit	Operating Current (n	- 1	A	2.65	2.65	2.76				
	Dimensions	H × W × D	mm	2.00	2.65 2.65 2.76 250 - 1400 - 732					
	Weight	11 ~ VV ^ D	kg	41 (40)	43 (42)					
	Air Volume [Lo-Mid-	411	m³/min	24.0 - 29.0 - 34.0	41 (40) 24.0 - 29.0 - 34.0	29.5 - 35.5 - 42.0				
	External Static Press	·	Pa	35 / 50 / 70 / 100 / 150	35 / 50 / 70 / 100 / 150	35 / 50 / 70 / 100 / 150				
	Sound Level (SPL) [L		dB(A)	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40				
	Sound Level (SPL) (L	.o-iviid-FIIJ	dB(A)	29 - 34 - 38 61	29 - 34 - 38 61	33 - 36 - 40				
utdoor		$H \times W \times D$	mm	01	1350 - 950 - 330 (+30)	65				
utaoor nit	Weight	D X W X D		120	1350 - 950 - 330 (+30) 134	134				
-	Air Volume	Cooling	kg m³/min	100.0	134	100.0				
	All volume		m³/min m³/min	100.0	100.0	100.0				
	Sound Level (SPL)	Heating	m ⁻ /min dB(A)	51	51	51				
	Sound Level (SPL)	Cooling			-					
	0	Heating	dB(A)	52	52	52				
	Sound Level (PWL) Cooling			69 69		69				
	Operating Current (n	nax)	A	35.0	13.0	13.0				
	Breaker Size	I	Α	40	16	16				
xt. iping	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88				
ipilig	Max. Length	Out-In	m	75	75	75				
	Max. Height	Out-In	m	30	30	30				
	ed Operating Range	Cooling*3	°C	−15 ~ +46	−15 ~ +46	-15 ~ +46				
[Outdoor]		Heating	°C	-25 ~ +21	−25 ~ +21	-25 ~ +21				

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



Doctor Dictor D	Туре				Inverter H	eat Pump				
Refrigerant Ration Refrigerant Refri	Indoor Un	it			PKA-M1	00KA(L)				
Device Source Outdoor power supply	Outdoor U	Jnit			PUHZ-SHW112VHA(-BS)	PUHZ-SHW112YHA(-BS)				
Cooling Capacity	Refrigerar	nt			R41	0A*1				
Cooling		Source			Outdoor po	ower supply				
Min - Max	Supply	Outdoor (V/Phase/H	z)		VHA:230 / Single / 50	, YHA:400 / Three / 50				
Total Input	Cooling	Capacity	Rated	kW	10.0	10.0				
Design Load			Min - Max	kW	4.9 - 11.4	4.9 - 11.4				
Annual Electricity Consumption*2 KWh/e 673 673 673		Total Input	Rated	kW	2.924	2.924				
SEER		Design Load		kW	10.0	10.0				
Heating Capacity Rated kW 11.2 11.2 11.2		Annual Electricity Co	onsumption*2	kWh/a	673	673				
Rated KW 11.2 11.2 11.2		SEER			5.2	5.2				
Note that Note No			Energy Efficiency Class		А	A				
Total Input Rated RAW RAW		Capacity	Rated	kW	11.2	11.2				
Total Input			Min - Max	kW	4.5 - 14.0	4.5 - 14.0				
Declared Capacity	Season)	Design Load Bated			3.103	3.103				
At bivalent temperature kW 11.2		Design Load		kW	12.7	12.7				
Back Up Heating Capacity KW 1.5 1.5 Annual Electricity Consumption*2 KW/h/a 4664 4664 SCOP		Declared Capacity	at reference design temperature	kW	11.2	11.2				
Back Up Heating Capacity			at bivalent temperature	kW	11.2	11.2				
Annual Electricity Consumption*2 kWh/a 4664 4664 4664 SCOP			at operation limit temperature	kW	9.4	9.4				
SCOP SCOP S.8 S.		Back Up Heating Cap	pacity	kW	1.5	1.5				
Energy Efficiency Class		Annual Electricity Co	onsumption*2	kWh/a	4664	4664				
Departing Current (max)		SCOP			3.8	3.8				
Indoor Unit Pate Rated Rated			Energy Efficiency Class		А	A				
Operating Current (max)	Operating	g Current (max)		Α	35.6	13.6				
Dimensions Panel> H × W × D mm 365 - 1170 - 295 Weight < Panel> kg 21 21 Air Volume [Lo-Mid-Hi] m³/min 20 - 23 - 26 20 - 23 - 26 Sound Level (SPL) [Lo-Mid-Hi] dB(A) 41 - 45 - 49 41 - 45 - 49 Sound Level (PWL) dB(A) 65 65 Outdoor Unit 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 (max) A 35.0 13.0		Input	Rated	kW	0.08					
Weight <panel></panel>	Unit	Operating Current (n	nax)	Α	0.57	0.57				
Air Volume [Lo-Mid-Hi]		Dimensions <panel></panel>	$H \times W \times D$	mm	365 - 1170 - 295					
Sound Level (SPL) (Lo-Mid-Hi) dB(A) 41 - 45 - 49 41 - 45 - 49		Weight <panel></panel>			21	21				
Sound Level (PWL)		Air Volume [Lo-Mid-H	li]	m³/min	20 - 23 - 26	20 - 23 - 26				
Dutdoor Unit Dimensions		Sound Level (SPL) [L	o-Mid-Hi]		41 - 45 - 49	41 - 45 - 49				
Weight kg 120 134 Air Volume Cooling Heating m³/min 100.0 100.0 Sound Level (SPL) Cooling Heating dB(A) 51 51 Heating dB(A) 52 52 Sound Level (PWL) Cooling dB(A) 69 69 Operating Current (max) A 35.0 13.0		,		dB(A)	65	65				
Air Volume		Dimensions	$H \times W \times D$	mm	1350 - 950	- 330 (+30)				
Heating m³/min 100.0 100.0	Unit	•			120	134				
Sound Level (SPL) Cooling dB(A) 51 51 Heating dB(A) 52 52 Sound Level (PWL) Cooling dB(A) 69 69 Operating Current (max) A 35.0 13.0		Air Volume	Cooling	m³/min	100.0	100.0				
Heating dB(A) 52 52 Sound Level (PWL) Cooling dB(A) 69 69 Operating Current (max) A 35.0 13.0			Heating		100.0	100.0				
Sound Level (PWL) Cooling dB(A) 69 69 Operating Current (max) A 35.0 13.0		Sound Level (SPL)	Cooling	dB(A)	51	51				
Operating Current (max) A 35.0 13.0			Heating	dB(A)	52	52				
		Sound Level (PWL)	Cooling	dB(A)	69	69				
Breaker Size A 40		Operating Current (max)			35.0	13.0				
		Breaker Size		Α	40	16				
Ext. Diameter Liquid / Gas mm 9.52 / 15.88 9.52 / 15.88			Liquid / Gas	mm	9.52 / 15.88					
Piping Max. Length Out-In m 75 75	Piping	Max. Length	Out-In	m						
Max. Height Out-In m 30 30		Max. Height			30	30				
Guaranteed Operating Range Cooling*³ °C −15 ~ +46 −15 ~ +46		ed Operating Range	Cooling*3	°C	−15 ~ +46	−15 ~ +46				
[Outdoor] Heating °C -25 ~ +21 -25 ~ +21	[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 circuit yourself or disassemble the product yourself and always ask a professional.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than -5°C.

MXZ-VAHZ SERIES

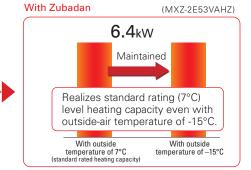
New hyper-heating MXZ allows you to create an oasis of comfort throughout your home and office in the rooms you use most, any time of the year.



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

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

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



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

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

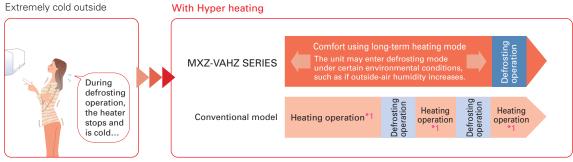
Freeze-prevention heater standard equipment

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



Continuous heating for long periods

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

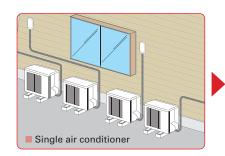


^{*1:} Conventional model performs continuous heating approximately 30min up to a maximum of 90min.

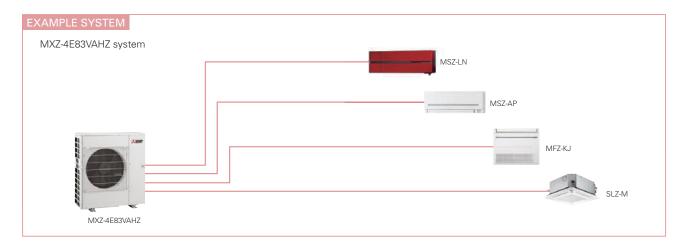
One outdoor unit supports multiple indoor units.

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

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







Freedom of combinations in cold region greatly enhanced

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





 $\textcolor{red}{\bigstar 1: P \ series \ cannot \ be \ connect \ with \ MXZ-4E83VAHZ \ when \ ampere \ limit \ adjustment \ function \ is \ operated.}$

MXZ-VAHZ SERIES













Outdoor Unit





MXZ-2E53VAHZ



MXZ-4E83VAHZ

Туре				Inverter Heat Pump					
Indoor Un					fer to*4 *5				
Outdoor U	Jnit			MXZ-2E53VAHZ	MXZ-4E83VAHZ				
Refrigerar	nt			R41	0A*1				
Power	Source				ower supply				
Supply	Outdoor (V/Phase/H	lz)		220 - 230 - 24	0V / Single / 50				
Cooling	Capacity	Rated	kW	5.3	8.3				
		Min - Max	kW	1.1 - 6.0	3.5 - 9.2				
	Total Input	Rated	kW	1.29	2.25				
	Design Load		kW	5.3	8.3				
	Annual Electricity Co	onsumption*2	kWh/a	282	447				
	SEER*4			6.5	6.5				
		Energy Efficiency Class*4		A++	A++				
Heating	Capacity	Rated (7°C)	kW	6.4	9.0				
(Average		Rated (-7°C)	kW	6.4	9.0				
Season)		Rated (-15°C)	kW	6.4	9.0				
		Min - Max	kW	1.0 - 7.0	3.5 - 11.6				
	Total Input	Rated	kW	1.36	1.90				
	Design Load			6.4	10.1				
	Declared Capacity	at reference design temperature	kW	6.4	9.0				
		at bivalent temperature	kW	6.4	9.0				
		at operation limit temperature	kW	2.4	2.5				
	Back Up Heating Capacity			0.0	1.1				
	Annual Electricity Co	onsumption*2	kWh/a	2165	3446				
	SCOP			4.1	4.1				
	Energy Efficiency Class*4			A+	A+				
Max. Ope	erating Current (Indoo	or+Outdoor)	Α	15.6	28.0				
	Dimensions	$H \times W \times D$	mm	796 × 950 × 330	1048 × 950 × 330				
Unit	Weight		kg	61	87				
	Air Volume	Cooling	m³/min	47.0	63.0				
		Heating	m³/min	47.0	77.0				
	Sound Level (SPL)	Cooling	dB(A)	45	53				
		Heating	dB(A)	47	57				
	Sound Level (PWL)	Cooling	dB(A)	55	66				
	Breaker Size		Α	16	30				
Ext.	Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35× 4 / 12.7 × 1+9.52× 3				
Piping	Total Piping Length	(max)	m	30	70				
	Each Indoor Unit Pip	ing Length (max)	m	20	25				
	Max. Height		m	15 (10) * ³	15 (10) * ³				
	Chargeless Length		m	20	25				
Guarantee	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46				
[Outdoor]		Heating	°C	-25 ~ +24	-25 ~ +24				
		. ,		•	t				

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

*2 Energy consumption based on standard test results.

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

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

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

MX2-ZE53VAHZ MSZ-EF18VE + MSZ-EF3VE

MXZ-4E83VAHZ MSZ-EF18VE + MSZ-EF3EVE + MSZ-EF25VE

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

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

3 Important Points to Remember When Installing the Outdoor Unit



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

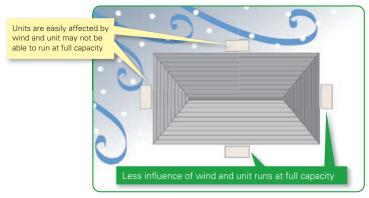
Wind and snow can significantly reduce capacity.

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



Installation Location

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

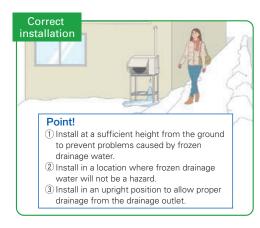


2

Measures for Drainage of Water

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

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

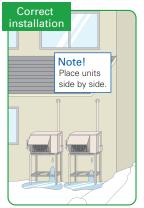






Case 2: Multiple units are installed

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

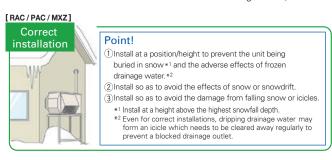




Measures for Snow

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.

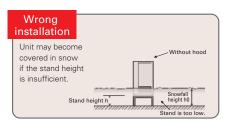






Use a stand to add sufficient height to protect the unit heat exchanger from snow and prevent icicles forming during defrost operation.

Correct installation Minimum height (h) should be highest than the highest snowhold (side panel) +20cm Air intake snow hood (rear) ho



Install snow protection hood as necessary

[RAC/PAC/MXZ]



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

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

A CAUTION

About disposal of drainage water

When the unit is installed in cold or snowy regions:

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



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

* In the case that fitting a drain socket is absolutely necessary, steps must be taken so that the drainage water does not freeze.

For more information, please consult Mitsubishi Electric or one of its dealers/resellers.

Arrangement for	[RAC/PAC/MXZ]
•	Separately sold parts are available for some models.
snow protection hood	Please consult Mitsubishi Electric or one of its dealers/resellers at the time of purchase for or

details.













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

"ecodan" - Economic, eco conscious next generation heating system

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

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

OUTDOOR UNIT INDOOR UNIT Hydro box, cylinder unit Small capacity (Under 5kW)* Medium capacity (7.5kW-14kW)* Large capacity (≥16kW)* Packaged type ZUBADAN ecodon -PUHZ-HW112/140 PUHZ-W85/112 PUHZ-W85 Small capacity (Under 5kW)* Medium capacity (7.5kW-14kW)* Split type ZUBADAN PUHZ-SHW80/112AA Reversible hydro box, Reversible cylinder unit ecodon Eco Inverter Small capacity (Under 5kW)* Medium capacity (7.5kW-14kW)* Large capacity (≥16kW)* Mr.SLIM+ **PUMY** + ecodan

PUMY-P112/125/140

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

New eco-design directive

What is the ErP Directive?

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

New energy label and measurements

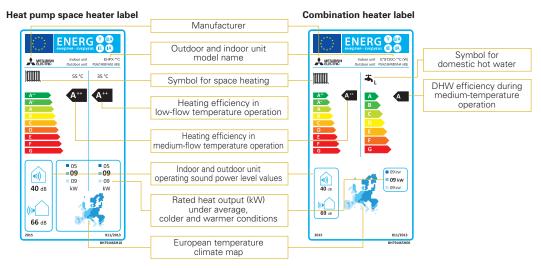
Under directive 2009/125/EC, ATW heat pumps of up to 70kW are required to show their heating efficiency on the energy label. The purpose of the energy label is to inform customers about the energy efficiency of a heating unit. The efficiency for space heating is ranked from A⁺⁺ to G. In the case of domestic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

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

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

Product label

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



These labels are delivered with all ecodan outdoor units.

What is the package label?

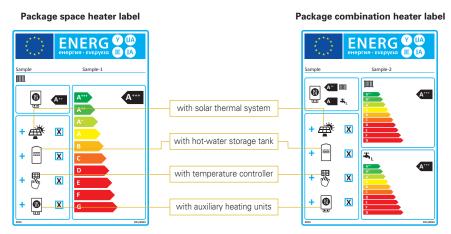
A heating system can use several energy-related products, such as a controller or solar thermal system. Therefore, a label showing the efficiency of the total heating system is required. The category range is defined from A+++ to G.

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

erp.mitsubishielectric.eu/erp/options

Package label

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



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

Designed for Optimal Heating

ZUBADAN New Generation (Split type)

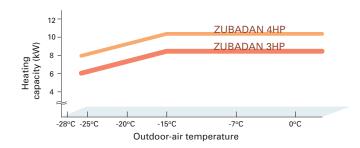
Even at the very low ambient temperatures, our ZUBADAN can provide powerful heating.

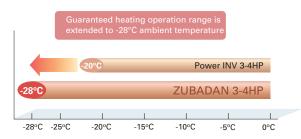


- Our unique flash injection circuit enables the nominal capacity to be maintained down to -15°C.
- The guaranteed operating range of the heating mode is extended down to -28°C.

Improved Heating Performance

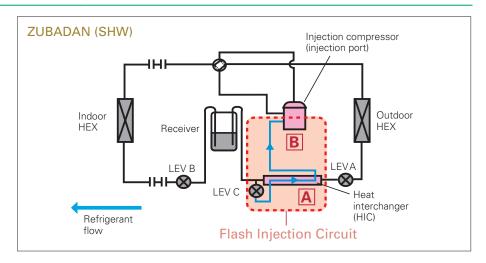
Mitsubishi Electric's unique "Flash Injection" circuit achieves remarkably high heating performance. This technology has resulted in an excellent heating capacity rating in outdoor temperatures as low as -15°C, and the guaranteed heating operation range of the heating mode has been extended to -28°C.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





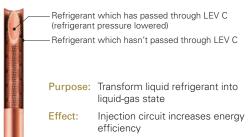
Mitsubishi Electric's Flash Injection Technology The Key to High Heating Performance at Low Outdoor Temperatures

■ Flash Injection Circuit

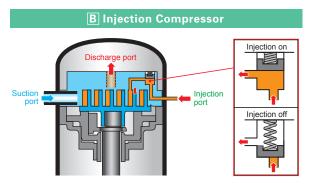


A Heat Interchanger (HIC)

HIC cross-sectional view



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



Purpose: To increase the volume of refrigerant being circulated

Effect: Improves heating capacity at low outdoor temperatures, and enables higher outlet temperature adjustment and higher defrost operation speed

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

Dedicated Heat Pump for Residence

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

Stylish and compact

The stylish design and compact size harmonises residential application

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

1,020mm

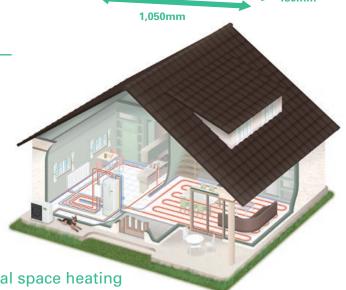
High performance

New compressor



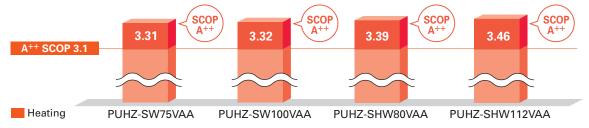
- Compact
- High performance

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



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

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

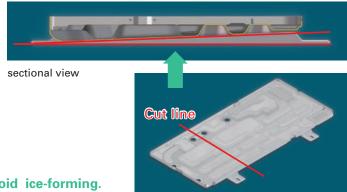


Higher reliability

New base design

Improving drainage

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

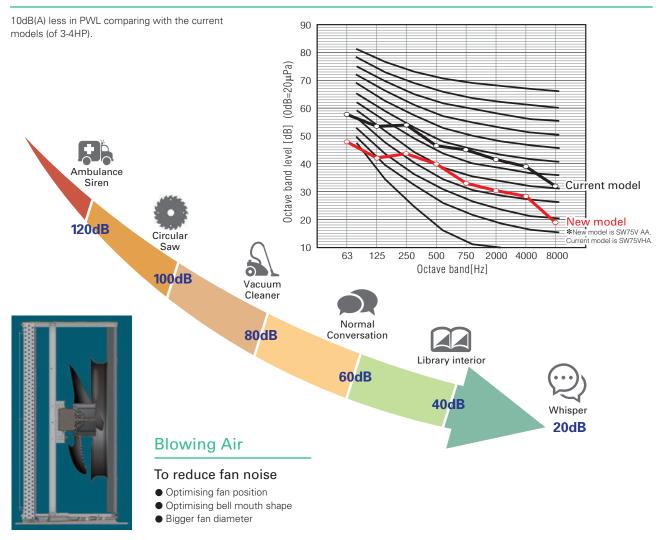


Optimizing defrost control and operation.

Optimizing outdoor unit heat exchanger to avoid ice-forming.

Compact but low noise

Noise reduction-10dB(A)



Enclosing noise

Shutting out noise from compressor

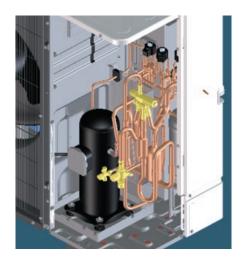
• The structure of double enclosing

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



Avoiding vibration and resonance

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

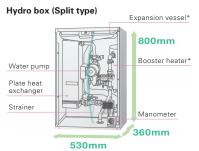


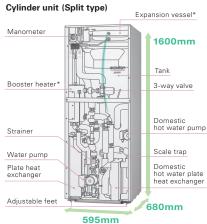
Indoor units

New all-in-one compact indoor unit

Easy to install and low maintenance

- All-in-one: Key functional components are incorporated
- Compact cylinder unit: Just 1600mm in height
- Compact hydro box: Only 530×360mm footprint
- Easy installation: Factory fitted pressure relief valve
- Easy service: Relevant parts are located at the front of the unit for easy maintenance
- Easy transport: Handles attached on front and back (cylinder unit)





*Depending on model

Larger capacity system



Outdoor units

PUHZ-SW160/200YKA SHW230YKA2

Indoor units

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

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

Line-up

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

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

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

Hydro box



Cylinder unit



Available options

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

Reversible models (for heating/cooling)

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

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

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

Reversible hydro box



Reversible cylinder unit



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

High-performance for domestic hot water re-charge

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

Save energy in domestic hot water operations

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

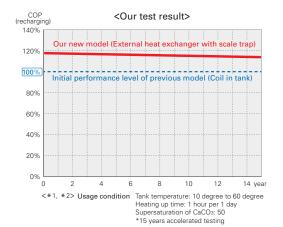
Avoid performance loss due to scale

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

Lighter weight

Compared to our previous model, the cylinder unit is up to 15kg lighter*. This is thanks to the coil incorporated in the tank which has been removed and replaced by a much lighter plate heat exchanger.

*Comparison between EHST20C-VM2C and EHST20C-VM2B.



Optimised stratification for better comfort

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

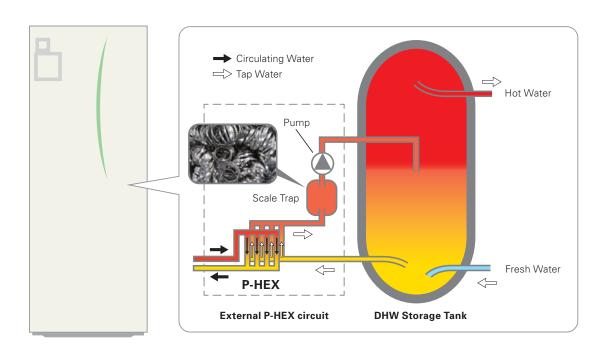
You do not need to worry about running out of hot water the same as with a conventional coil in tank.

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

The secret behind our external plate heat exchanger system

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

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



Unique technology of ecodan

Auto Adaptation

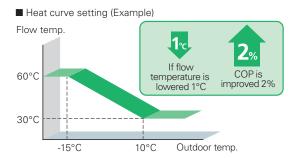
Maximize energy savings while retaining comfort at all times



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

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

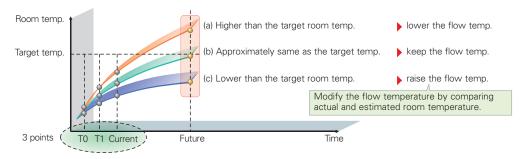
In a conventional system controller, the flow temperature is determined based on the pre-set heat curve depending on the actual outdoor temperature. However, this requires a complicated setting to achieve the optimal heat curve.



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

Aiming to realise further comfort and energy savings, Mitsubishi Electric is proud to introduce a revolutionary new controller. Our advanced Auto Adaptation function measures the room temperature and outdoor temperature, and then calculates the required heating capacity for the room. Simply stated, the flow temperature is automatically controlled according to the required heating capacity, while optimal room temperature is maintained at all times, ensuring the appropriate heating capacity and preventing energy from being wasted. Furthermore, by estimating future changes in room temperature, the system works to prevent unnecessary increases and decreases in the flow temperature. Accordingly, Auto Adaptation maximises both comfort and energy savings without the need for complicated settings.

■ Future room temperature estimation



Auto Adaptation – room temperature control

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

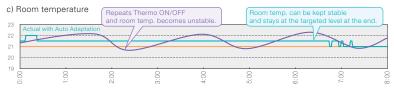


[Example]

a) Outdoor temperature is gradually decreasing...



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



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



Settings can be performed using an SD card.

2 zone control (for heating/cooling)

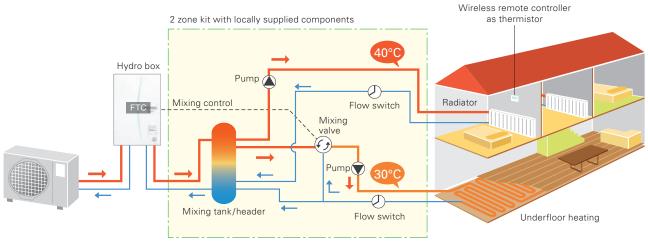
Simultaneously control two different zones

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

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

Another feature of this model is that 2 zone cooling control is now possible. Using these functions it is easy to maintain the most comfortable temperature in each room and to save energy too.

■ Two temperature zones



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

2 zone kit

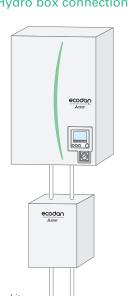
With optional parts



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

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

Hydro box connection



255mm ecodon Acree 1600mm

Cylinder unit connection

Easy to install and low maintenance

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



Intelligent hybrid control (boiler interlock)

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

*SD logo is a tradema

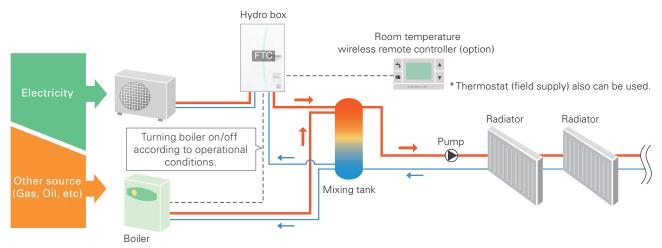
The flexibility of ecodan's intelligent control allows the system to be combined with the boiler currently in use. Additionally, this control can judge which heating source to use either ecodan or the existing boiler, based on various conditions*.

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

*Please see below "Heat source switchover".

Intelligent system combining a boiler with ecodan

■ Intelligent boiler interlock system



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

Heat source switchover - Choose appropriate system based on needs

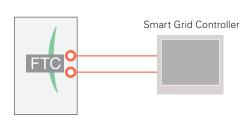
4 types of heat source switchover logic

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

Smart Grid Ready function

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

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



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

Pattern 1: Normal operation

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

Pattern 2: Switch ON recommendation

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

Pattern 3: Switch OFF command

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

Pattern 4: Switch ON command

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

Multiple unit control



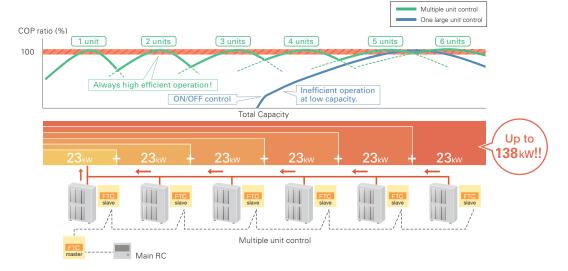
Connect up to 6 units – Automatic control of multiple units for bigger capacity and better efficiency

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

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

*Only same models (same capacity) can be used

■ Multiple unit control



Remote controllers

Smart user-friendly controller with stylish design

Main remote controller

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



1 m

121 €



PAR-WT50R-E (Option) Wireless remote controller

Wireless remote controller (optional)

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

Energy monitoring

View electricity consumption and heat output on the remote controller

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

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

Other features

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

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

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



Summer time setting

Easy adjustment for summer time



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

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





Two separate schedules

Pre-setting two different schedules for winter and summer seasons



Two different schedule settings are available for use via the main remote controller.

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



Easy commissioning

Pump for primary water circuit* speed setting possible using ecodan's main remote controller

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

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

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



Flow sensor newly incorporated

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

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



Run indoor unit* without outdoor unit

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

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

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

Settings can be performed using an SD card.

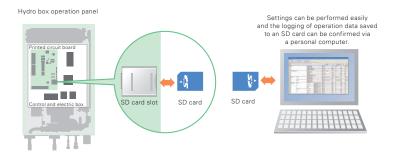
*SD logo is a trademark of SD-3C, LLC

SD* card

For easier settings and data logging

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

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



Items that can be pre-set

Simply copying pre-set data to an SD card,

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

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

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

Data that can be stored

Operation data up to a month long can be stored on a single SD card

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

Split type specifications

Indoor unit

<cylind< th=""><th>er unit></th><th>></th><th></th><th></th><th></th><th>S</th><th>mall capaci</th><th>ty</th><th></th><th></th><th></th><th></th><th>Medium</th><th>capacity</th><th></th><th></th><th></th><th>UK n</th><th>nodel</th></cylind<>	er unit>	>				S	mall capaci	ty					Medium	capacity				UK n	nodel
Model n	ame				EHST20D- VM2C	EHST20D- YM9C	EHST20D- VM2EC	EHST20D- MHC	EHST20D- MEC	EHST20C- VM2C	EHST20C- VM6C	EHST20C- YM9C	EHST20C- TM9C	EHST20C- VM2EC	EHST20C- VM6EC	EHST20C- YM9EC	EHST20C- MEC	EHST20C- MHCW	EHST20D MHCW
		Тур	е								Н	leating onl	у						
		Imn	nersion heater		-	-	-	×	-	-	-	-	-	-	-	-	-	×	×
		Exp	ansion vessel		×	×	-	×	-	×	×	×	×	-	-	-	-	×	×
		Boo	ster heater		×	×	×	-	-	×	×	×	×	×	×	×	-	-	-
Dimensi	ons	H×V	H×W×D								16	00×595×6	30						
Weight (empty)	<u> </u>		kg	103	105	97	103	96	110	111	112	112	104	105	106	103	110	103
Power supply (V/Phase/Hz)											2	30/Single/5							
	Booste			Hz)	230/Single/50	400/Three/50	230/Single/50		-	230/Si	ngle/50	400/Three/50	230/Three/50	230/Si	ngle/50	400/Three/50		-	
	heater	Capacity		kW	2	9 (3/6/9)	2	-		2	6 (2/4/6)	9 (3/6/9)	9 (3/6/9)	2	6 (2/4/6)	9 (3/6/9)		-	
		Current		Α	9	13	9	-		9	26	13	23	9	26	13		-	
		Bre	Breaker size		16	16	16	-		16	16 32 16 32 16			16	32	16		-	
	Immers	sion Pov	ver supply (V/Phase/	Hz)		- 230/Single/50 - 230/Single									ngle/50				
	heater	Сар	Capacity kW Current A			- 3			-									3	
		Cur	Current		- 13				-							1	13		
		Bre	Breaker size			- 16 - 16								6					
Domesti hot water		Volume /	Material	L/-		200 / Stainless steel													
Guarant		Ambient		°C	0~35*1														
operatin range*1	g	Outdoor	Heating	°C							See outo	door unit s	pec table						
range			Cooling	°C								-							
Target		Heating	Room temperature	°C								10~30							
tempera range	ture		Flow temperature	°C								25~60							
range		Cooling	Room temperature	°C								-							
			Flow temperature	°C								-							
		DHW		°C								40~60							
		Legionell	a prevention	°C								60~70							
Sound p	ressure	level (SPL	.)	dB (A)								28							

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

<hydro< th=""><th>box></th><th></th><th></th><th></th><th></th><th>Small</th><th>capacity</th><th></th><th></th><th></th><th></th><th>Medium</th><th>capacity</th><th></th><th></th><th></th><th>Large</th><th>capacity</th></hydro<>	box>					Small	capacity					Medium	capacity				Large	capacity
Model n	ame				EHSD- MEC	EHSD- MC	EHSD- VM2C	EHSD- YM9C	EHSC- MEC	EHSC- VM2C	EHSC- VM2EC	EHSC- VM6C	EHSC- VM6EC	EHSC- YM9C	EHSC- YM9EC	EHSC- TM9C	EHSE- MEC	EHSE- YM9EC
		Тур	е			•		•			Heatin	g only	•	•	•			
		Imr	nersion heater		-	-	-	-	-	-	-	-	-	-	-	-	-	T -
		Exp	ansion vessel		-	×	×	×	-	×	-	×	-	×	-	×	-	-
		Boo	ster heater		-	-	×	×	-	×	×	×	×	×	×	×	-	×
Dimensi	ons	H×V	V×D	mm						800×5	30×360						950×6	600×360
Weight	(empty)			kg	38	43	44	45	42	48	43	49	44	49	44	49	60	62
Power s	upply (V	//Phase/H	lz)							23								
Heater	Booste		ver supply (V/Phase/	Hz)	-						230/Three/50	-	400/Three/50					
	heater	Cap	acity	kW	-								9 (3/6/9)	-	9 (3/6/9)			
		Cur	rent	Α	-								23	-	13			
		Bre	aker size	А	-	- - 16 16 - 16 32 32 16 16						32	-	16				
Guarant		Ambient		°C							0~	35*1						
operatin range*1	ıg	Outdoor	Heating	°C						Se	e outdoor ι	ınit spec ta	ble					
range .			Cooling	°C														
Target		Heating	Room temperature	°C							10-	-30						
tempera range	iture		Flow temperature	°C							25-	-60						
range		Cooling	Room temperature	°C														
			Flow temperature	°C								-						
Sound p	ressure	level (SPL	.)	dB (A)						2	8						:	30

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

<revers< th=""><th>sible c</th><th>ylinde</th><th>er ui</th><th>nit></th><th></th><th>Small c</th><th>apacity</th><th>Medium</th><th>capacity</th></revers<>	sible c	ylinde	er ui	nit>		Small c	apacity	Medium	capacity
Model n	ame					ERST20D- VM2C	ERST20D- MEC	ERST20C- VM2C	ERST20C MEC
			Тур	В			Heating ar	nd cooling	
			lmn	nersion heater		-	-	-	-
			Ехр	ansion vessel		×	-	×	-
			Воо	ster heater		×	-	×	-
Dimensi	ons		H×V	V×D	mm		1600×5	95×680	
Weight (empty)				kg	103	96	110	103
Power s	upply (\	//Phas	e/H	z)			230/Sir	ngle/50	
Heater	Boost		Pov	er supply (V/Phase/	Hz)	230/Single/50	-	230/Single/50	-
	heater	· [Cap	acity	kW	2	-	2	-
			Cur	rent	А	9	-	9	-
			Brea	aker size	Α	16	-	16	-
	Imme		Pov	er supply (V/Phase/	Hz)	-	-	-	-
	heater	· [Cap	acity	kW	-	-	-	-
			Cur	rent	А	-	-	-	-
			Brea	aker size	А	-	-	-	-
Domesti hot wate		Volun	ne/	Material	L/-		200 / Stair	ıless steel	
Guarante		Ambi	ent		°C		0~3	5*1	
operatin range*1	g	Outdo	oor	Heating	°C	See	outdoor u	ınit spec ta	ble
range .				Cooling	°C	See outdoo	r unit spec t	able (minimu	ım 10°C*2)
Target		Heati	ng	Room temperature	°C		10~	-30	
tempera range	ture			Flow temperature	°C		25~	-60	
range		Cooli	ng	Room temperature	°C		-	-	
				Flow temperature	°C		5~2	25	
		DHW			°C		40~	-60	
		Legio	nella	prevention	°C		60~	70	
Sound p	ressure	level ((SPL)	dB (A)		2	8	

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

<revers< th=""><th>sible h</th><th>vdro</th><th>box</th><th>></th><th></th><th>Small</th><th>Medium</th><th>capacity</th><th>Large</th><th>apacity</th></revers<>	sible h	vdro	box	>		Small	Medium	capacity	Large	apacity
Model n						ERSD- VM2C	ERSC- MEC	ERSC- VM2C	ERSE- MEC	ERSE- YM9EC
		[Тур	e			Heat	ng and cod	oling	
		İ	lmn	nersion heater		-	-	-	-	-
		Ì	Exp	ansion vessel		×	-	×	-	-
		Ī	Boo	ster heater		×	-	×	-	×
Dimensi	ons		H×V	V×D	mm	80	00×530×36	0	950×6	00×360
Weight (empty)				kg	45	43	49	61	63
Power s	upply (\	//Phas	se/H	z)			2	30/Single/5	0	
Heater	Boost		Pov	ver supply (V/Phase/	Hz)	230/Single/50	-	230/Single/50	-	400/Three/50
	heate	r [Cap	acity	kW	2	-	2	-	9 (3/6/9)
			Cur	rent	Α	9	-	9	-	13
			Brea	aker size	Α	16	-	16	-	16
Guarant		Amb	ient		°C			0~35*1		
operatin range*1	g	Outd	oor	Heating	°C		See outo	loor unit sp	ec table	
range .				Cooling	°C	See ou	tdoor unit	spec table (r	minimum '	10°C*2)
Target		Heati	ng	Room temperature	°C			10~30		
tempera range	ture			Flow temperature	°C			25~60		
range		Cooli	ing	Room temperature	°C			-		
				Flow temperature	°C			5~25		
Sound p	ressure	level	(SPL)	dB (A)		28		3	80

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

Outdoor unit

Model nam	e		Eco Inverter				Power Inverter				
			SUHZ- SW45VA (H)*1	PUHZ- SW50VKA (-BS)	PUHZ- SW75V/YAA (-BS)	PUHZ- SW100V/YAA (-BS)	PUHZ- SW75VHA (-BS)	PUHZ- SW100V/YHA (-BS)	PUHZ- SW120V/YHA (-BS)	PUHZ- SW160YKA (-BS)	PUHZ- SW200YKA (-BS)
Dimensions	H×W×D	mm	880×840×330	630×809×300	1020×1050×480	1020×1050×480	943×950×330	1350×950×330	1350×950×330	1338×1050×330	1338×1050×330
Product wei	ght (empty)	kg	54	43	92/104	114/126	75	118/130	118/130	136	136
Power supp	ly (V / Phase / Hz)					VHA : 230/Sing	gle/50 YHA, YKA	: 400/Three/50			
Heating	Capacity	kW	4.50	5.50	8.00	11.20	8.00	11.20	16.00	22.00	25.00
(A7/W35)	COP		5.06	4.42	4.40	4.46	4.40	4.45	4.10	4.20	4.00
	Power input	kW	0.889	1.244			1.818	2.517	3.902	5.238	6.250
Heating	Capacity	kW	3.50	5.00	7.50	10.00	7.50	10.00	12.00	16.00	20.00
(A2/W35)	COP		3.40/3.04	2.97	3.40	3.32	3.40	3.32	3.24	3.11	2.80
	Power input	kW	1.029/1.151	1.684			2.206	3.009	3.704	5.145	7.143
Cooling	Capacity	kW	4.00	4.50	7.10	10.00	6.60	9.10	12.50	16.00	20.00
(A35/W7)	EER		2.73	2.76	2.70	2.83	2.82	2.75	2.32	2.76	2.25
	Power input	kW	1.465	1.630			2.340	3.309	5.388	5.797	8.889
Cooling	Capacity	kW	3.80	5.00	7.10	10.00	7.10	10.00	14.00	18.00	22.00
(A35/W18)	EER		4.28	4.60	4.43	4.47	4.43	4.35	4.08	4.56	4.10
	Power input	kW	0.888	1.087			1.603	2.299	3.431	3.947	5.366
Sound pressure level (SPL)	Heating	dB (A)	52	46	43	47	51	54	54	62	62
Sound power level (PWL)	Heating	dB (A)	61	63	58	60	68	70	72	78	78
Operating c	urrent (max)	Α	12.0	13.0	22.0/11.5	28.0/12.0	17.0	29.5/13.0	29.5/13.0	19.0	21.0
Breaker size	1	Α	20	16	25.0/16.0	32.0/16.0	25	32/16	32/16	25	32
Piping	Diameter Liquid/Gas	mm	6.35/12.7	6.35/12.7	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/25.4	12.7/25.4
	Max. length Out-In	m	30	40	40	75	40	75	75	80	80
	Max. height Out-In	m	30	30	10	10	30	30	30	30	30
Guaranteed	Heating	°C	-15 to +24	-15 to +21	-20 to +24	-20 to +24	-20 to +21	-20 to +21	-20 to +21	-20 to +21	-20 to +21
operating range	DHW	°C	-15 to +35	-15 to +35	-20 to +35	-20 to +35	-20 to +35	-20 to +35	-20 to +35	-20 to +35	-20 to +35
	Cooling*2	°C	+10 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46

					ZUBA	ADAN		
Model name	Э		PUHZ- SHW80V/YAA (-BS)	PUHZ- SHW112V/YAA (-BS)	PUHZ- SHW80VHA	PUHZ- SHW112V/YHA	PUHZ- SHW140YHA	PUHZ- SHW230YKA2
Dimensions	H×W×D	mm	1020×1050×480	1020×1050×480	1350×950×330	1350×950×330	1350×950×330	1338×1050×330
Product wei	ght (empty)	kg	116/128	116/128	120	120/134	134	149
Power supp	ly (V / Phase / Hz)			VHA	: 230/Single/50	/HA, YKA : 400/Thre	ee/50	
Heating	Capacity	kW	8.00	11.20	8.00	11.20	14.00	23.00
(A7/W35)	COP		4.65	4.40	4.65	4.46	4.22	3.65
	Power input	kW			1.720	2.511	3.318	6.301
Heating	Capacity	kW	8.00	11.20	8.00	11.20	14.00	23.00
(A2/W35)	COP		3.55	3.22	3.55	3.34	2.96	2.37
	Power input	kW			2.254	3.353	4.730	9.705
Cooling	Capacity	kW	7.10	10.00	7.10	10.00	12.50	20.00
(A35/W7)	EER		3.31	2.83	3.31	2.83	2.17	2.22
	Power input	kW			2.145	3.534	5.760	9.009
Cooling	Capacity	kW	7.10	10.00	7.10	10.00	12.50	20.00
(A35/W18)	EER		4.52	4.74	4.52	4.74	4.26	3.55
	Power input	kW			1.571	2.110	2.934	5.634
Sound pressure level (SPL)	Heating	dB (A)	45	47	51	52	52	59
Sound power level (PWL)	Heating	dB (A)	59	60	69	70	70	75
Operating c	urrent (max)	Α	22.0/13.0	28.0/13.0	29.5	35.0/13.0	13.0	26.0
Breaker size		Α	25.0/16.0	32.0/16.0	32	40/16	16	32
Piping	Diameter Liquid/Gas	mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	12.7/25.4
	Max. length Out-In	m	75	75	75	75	75	80
	Max. height Out-In	m	30	30	30	30	30	30
Guaranteed	Heating	°C	-28 to +24	-28 to +24	-28 to +21	-28 to +21	-28 to +21	-25 to +21
operating range	DHW	°C	-28 to +35	-28 to +35	-28 to +35	-28 to +35	-28 to +35	-25 to +35
. 0.	Cooling*2	°C	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46	-15 to +46

Note: based on EN 14511 (Input to circulation pump is not included.) It may differ according to the system configuration.
*1 SUHZ-SW45VAH incorporates base heater.
*2 Optional air protection guide is required where ambient temperature is lower than -5°C.

Split type	Small capacity (Under 5kW)*	Medium capacity (7.5kW-14kW)*	Large capacity (≧16kW)*
ZUBADAN New Gaseration		PUHZ-SHW80/112AA PUHZ-SHW80/112/140	PUHZ-SHW230
POWER INVERTER	PUHZ-SW50	PUHZ-SW75 PUHZ-SW75/100AA PUHZ-SW100/120	PUHZ-SW160/200
Eco Inverter	SUHZ-SW45		

Packaged type specifications

Indoor unit



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

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

<Hydro box>

Model name				EHPX-VM2C	EHPX-VM6C	EHPX-YM9C
		Туре			Heating only	
		Immersion heater		-	-	-
		Expansion vessel		×	×	×
		Booster heater		×	×	×
Dimensions		H×W×D	mm		800×530×360	
Weight (empty)			kg	37	38	38
Power supply (\	//Phase/Hz)				230/Single/50	
Heater	Booster	Power supply (V/Pha	se / Hz)	230/Single/50	230/Single/50	400/Three/50
	heater	Capacity	kW	2	6 (2/4/6)	9 (3/6/9)
		Current	А	9	26	13
		Breaker size	Α	16	32	16
Guaranteed	Ambient		°C		0~35*1	
operating range*1	Outdoor		°C		See outdoor spec table	
Target temper-	Heating	Room temperature	°C		10~30	
ature range		Flow temperature	°C		25~60	
Sound pressure	level (SPL)		dB (A)		28	

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

Outdoor u	ınit							
O ataoor a				Power Inverter			ZUBADAN	
Model name			PUHZ-W50VHA2 (-BS)	PUHZ-W85VHA2 (-BS)	PUHZ-W112VHA (-BS)	PUHZ-HW112YHA2 (-BS)	PUHZ-HW140VHA2 (-BS)	PUHZ-HW140YHA2 (-BS)
Dimensions	H×W×D	mm	740×950×330	943×950×330	1350×1020×330	1350×1020×330	1350×1020×330	1350×1020×330
Product weight ((empty)	kg	64	79	133	148	134	148
Power supply (V	/ / Phase / Hz)		230/Single/50	230/Single/50	230/Single/50	400/Three/50	230/Single/50	400/Three/50
Heating	Capacity	kW	5.00	9.00	11.20	11.20	14.00	14.00
(A7/W35)	COP		4.50	4.18	4.47	4.42	4.25	4.25
	Power input	kW	1.111	2.153	2.506	2.534	3.294	3.294
Heating	Capacity	kW	5.00	8.50	11.20	11.20	14.00	14.00
(A2/W35)	COP		3.50	3.17	3.34	3.11	3.11	3.11
	Power input	kW	1.429	2.681	3.353	3.601	4.502	4.502
Sound pressure level (SPL)	Heating	dB (A)	46	48	53	53	53	53
Sound power level (PWL)	Heating	dB (A)	61	66	69	67	67	67
Operating curren	nt (max)	Α	13.0	23.0	29.5	13.0	35.0	13.0
Breaker size		Α	16	25	32	16	40	16
Guaranteed	Heating	°C	-15 to +21	-20 to +21	-20 to +21	-25 to +21	-25 to +21	-25 to +21
operating range	DHW	°C	-15 to +35	-20 to +35	-20 to +35	-25 to +35	-25 to +35	-25 to +35
	Cooling*1	°C	-15 to +46	-15 to +46	−15 to +46	-15 to +46	-15 to +46	-15 to +46

Note: based on EN 14511 (Input to circulation pump is included.) It may differ according to the system configuration.

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



Packaged type





Packaged type



Small capacity (Under 5kW)*





Optional Parts

Split type <Indoor unit>

Parts name	Model name	Specification								Cylind	ler unit								Hydro	box
			EHST20C- VM2C	EHST20C- VM6C	EHST20C- YM9C	EHST20C- TM9C	EHST20C- VM2EC	EHST20C- VM6EC	EHST20C- YM9EC	EHST20C- MEC	EHST20D- VM2C	EHST20D- YM9C	EHST20D- VM2EC	EHST20D- MEC	EHST20D- MHC	EHST20C- MHCW	EHST20D- MHCW	ERST models	E*SD or E*SC models	E*SE models
Wirelss remote controller	PAR-WT50R-E		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Wirelss receiver	PAR-WR51R-E		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Thermistors	PAC-SE41TS-E	For room temp.	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-TH011-E	For buffer and zone (flow and return temp.)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	PAC-TH011TK-E	For tank temp. (5m)	×	×	×	×	×	-	-	-	-	-	-	-	-	-	-	-	×	×
	PAC-TH011TKL-E	For tank temp. (30m)	×	×	×	×	×	-	-	-	-	-	-	-	-	-	-	-	×	×
	PAC-TH011HT-E	For boiler (flow and return temp.)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Immersion heater	PAC-IH03V2-E	1Ph 3kW	×	×	×	×	×	×	×	×	×	×	×	×	-	-	-	×	-	-
EHPT accessories for UK	PAC-WK01UK-E		-	-	-	-	-	-	-	-	-	-	-	-	-	×	×	-	-	-
Joint pipe	PAC-SG73RJ-E	For PUHZ-SW200YKA/ SHW230YKA2 (-BS) ø9.52 → ø12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	×
Wi-Fi interface	MAC-567IF-E		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Drain pan stand	PAC-DP01-E	D665mm H270mm W595mm N/W: 14.5kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	x*1	-	-
2 zone kit	PAC-TZ01-E		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	-

^{*1} PAC-DP01-E is necessary when you use ERST units. If you use ERST units without this parts, drain will be flowed from the base of units, in cooling mode.

<Outdoor unit>

Parts name	Model name	Eco Inverter				Po	wer Invert	er					ZU	BADAN		
		SUHZ- SW45VA(H)	PUHZ- SW50VKA(-BS)	PUHZ- SW75V/YAA(-BS)	PUHZ- SW100V/YAA(-BS)	PUHZ- SW75VHA(-BS	PUHZ- SW100V/YHA(-BS)	PUHZ- SW120V/YHA(-BS)	PUHZ- SW160YKA(-BS)	PUHZ- SW200YKA(-BS)	PUHZ- SHW80V/YAA(-BS)	PUHZ- SHW112V/YAA(-BS)	PUHZ- SHW80VHA	PUHZ- SHW112V/YHA	PUHZ- SHW140YHA	PUHZ- SHW230YKA2
Connector for drain hose heater	PAC-SE60RA-E	-	-	×	×	×	×	×	×	×	×	×	×	×	×	×
signal output	PAC-SE61RA-E	-	×	-	-	-	-	-	-	-	-	-	-	-	-	-
Air discharge guide	MAC-886SG-E	×	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	PAC-SJ07SG-E	-	×	-	-	-	-	-	-	-	-	-	-	-	-	-
	PAC-SG59SG-E	-	-	-	-	×	×	×	-	-	-	-	×	×	×	-
	PAC-SG96SG-E	-	-	x*1	x*1	-	-	-	×	×	x*1	x*1	-	-	-	×
Air protection guide	PAC-SJ06AG-E	-	×	-	-	-	-	-	-	-	-	-	-	-	-	-
	PAC-SH63AG-E	-	-	-	-	×	×	×	-	-	-	-	×	×	×	-
	PAC-SH95AG-E	-	-	x*1	x*1	-	-	-	×	×	x*1	x*1	-	-	-	×
Attachment	PAC-SJ82AT-E	-	-	x*1	x*1	-	-	-	-	-	x*1	x*1				
Drain socket	PAC-SG61DS-E	-	-	×	×	×	×	×	×	×	×	×	-	-	-	-
	PAC-SJ08DS-E	-	×	-	-	-	-	-	-	-	-	-	-	-	-	-
Centralised drain pan	PAC-SG63DP-E	-	×	-	-	-	-	-	-	-	-	-	-	-	-	-
	PAC-SG64DP-E	-	-	-	-	×	×	×	-	-	-	-	-	-	-	-
	PAC-SH97DP-E	-	-	-	-	-	-	-	×	×	-	-	-	-	-	-
	PAC-SJ83DP-E	-	-	×	×	-	-	-	-	-	×	×				
Control/Service tool	PAC-SK52ST	-	×	×	×	×	×	×	×	×	×	×	×	×	×	×

Package type <Indoor unit>

Parts name	Model name	Specification			Cylinder unit	Hydro box				
			EHPT20X-VM2C	EHPT20X-VM6C	EHPT20X-YM9C	EHPT20X-TM9C	EHPT20X-MHCW	EHPX-VM2C	EHPX-VM6C	EHPX-YM9C
Wireless remote controller	PAR-WT50R-E		×	×	×	×	×	×	×	×
Wireless receiver	PAR-WR51R-E		×	×	×	×	×	×	×	×
Thermistors	PAC-SE41TS-E	For room temp.	×	×	×	×	×	×	×	×
	PAC-TH011-E	For buffer and zone (flow and return temp.)	×	×	×	×	×	×	×	×
	PAC-TH011TK-E	For tank temp.	×	×	×	×	×	×	×	×
	PAC-TH011TKL-E	For tank temp. (longer)	×	×	×	×	×	×	×	×
	PAC-TH011HT-E	For boiler (flow and return temp.)	×	×	×	×	×	×	×	×
Immersion heater	PAC-IH03V2-E	1Ph 3kW	×	×	×	×	-	-	-	-
EHPT accessories for UK	PAC-WK01UK-E		-	-	-	-	×	-	-	-
Wi-Fi interface	MAC-567IF-E		×	×	×	×	×	×	×	×
2 zone kit	PAC-TZ01-E		×	×	×	×	×	×	×	×

<Outdoor unit>

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

Interface/Flow temperature controller

Parts name	Model name	Description
Capacity step control interface	PAC-IF011B-E	1 PC Board w/ Case
Flow temperature controllers	PAC-IF032B-E	1 PC Board w/ Case
System controllers	PAC-IF061B-E	1 PC Board w/ Case
	PAC-IF062B-E	1 PC Board w/ Case
	PAC-IF063B-E	1 PC Board w/ Case
	PAC-SIF051B-E	1 PC Board w/ Case

Note: SUHZ CANNOT be connected to these IFs.

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

Combination table

Туре	Model name		Р	ackage ty	ре		Split type								
		Power Inverter			ZUBA	ADAN	Eco Inverter								
		PUHZ- W50VHA2	PUHZ- W85VHA2	PUHZ- W112VHA	PUHZ- HW112YHA2	PUHZ- HW140VHA2/ YHA2	SUHZ- SW45VA(H)	PUHZ- SW50VKA	PUHZ- SW75VAA	PUHZ- SW75YAA	PUHZ- SW100VAA	PUHZ- SW100YAA	PUHZ- SW75VHA		
	EHST20C-VM2C										•	•	•		
	EHST20C-VM6C											•			
	EHST20C-YM9C											•			
	EHST20C-TM9C											•			
	EHST20C-VM2EC											•			
	EHST20C-VM6EC											•			
	EHST20C-YM9EC										•	•	•		
	EHST20C-MEC										•	•	•		
	EHST20C-MHCW										•	•	•		
	EHST20D-VM2C						•	•	•	•					
	EHST20D-MEC						•		•	•					
Cylinday 't	EHST20D-MHC						•	•	•	•			•		
Cylinder unit	EHST20D-MHCW						•	•	•	•			•		
	EHST20D-VM2EC						•		•	•					
	EHST20D-YM9C						•	•	•	•			•		
	ERST20C-MEC										•	•			
	ERST20C-VM2C										•	•	•		
	ERST20D-MEC						•	•	•	•			•		
	ERST20D-VM2C						•	•	•	•			•		
	EHPT20X-VM2C	•	•		•	•									
	EHPT20X-VM6C	•	•			•									
	EHPT20X-YM9C	•	•	•		•									
	EHPT20X-TM9C	•	•	•		•									
	EHPT20X-MHCW	•	•	•	•	•									
	EHSC-VM2C										•	•			
	EHSC-VM2EC										•	•	•		
	EHSC-VM6C										•	•			
	EHSC-VM6EC										•	•			
	EHSC-YM9C										•				
	EHSC-YM9EC										•	•	•		
	EHSC-TM9C										•	•	•		
	EHSC-MEC										•	•	•		
	EHSD-VM2C						•	•	•	•			•		
	EHSD-YM9C						•	•	•	•			•		
	EHSD-MEC						•	•	•	•			•		
Hydro box	EHSD-MC						•	•	•	•			•		
	ERSC-VM2C						_	•		_	•	•	•		
	ERSC-MEC										•	•	•		
	ERSD-VM2C						•	•	•	•	_		•		
	EHPX-VM2C	•	•	•	•	•	_	_					_		
	EHPX-VM6C		•	•	•	•									
	EHPX-VM9C	•	•	•	•	•									
			-	•	_	-									
	EHSE-YM9EC														
	EHSE-MEC														
	ERSE-YM9EC														
	ERSE-MEC														

Split type													ATA/ATW Hybrid system					
	Power	Inverter					ZUBA	ADAN				Mr. SLIM+ PUMY+ ecodan						
PUHZ- SW100VHA/ YHA	PUHZ- SW120VHA/ YHA	PUHZ- SW160YKA	PUHZ- SW200YKA	PUHZ- SHW80VAA	PUHZ- SHW80YAA	PUHZ- SHW112VAA	PUHZ- SHW112YAA	PUHZ- SHW80VHA	PUHZ- SHW112VHA/ YHA	PUHZ- SHW140YHA	PUHZ- SHW230YKA2	PUHZ- FRP71VHA2	PUMY- P112VKM4/ YKM(E)4	PUMY- P125VKM4/ YKM(E)4	PUMY- P140VKM4/ YKM(E)4			
•	•			•	•	•	•	•	•	•		•	•	•	•			
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		•	•								•							
									• Combi	nation is a	vailable	Blank	Combinat	ion is NOT	available.			

Mr. SLIM+

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

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

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

1 unit, 2 roles – Total comfort year-round

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

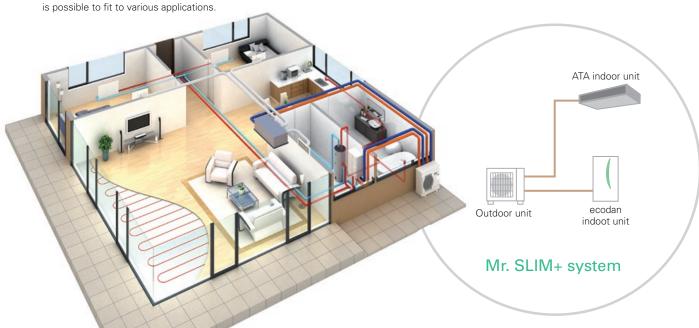
All-in-one outdoor unit (air conditioning, domestic hot water supply and hot water heating)

Mr. SLIM for Air-to-Air

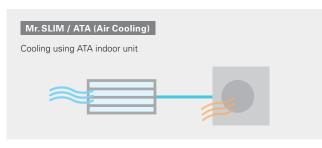
Mr. SLIM+ utilises a duct system that enables the air conditioning or heating of multiple rooms, and other indoor unit type systems that it

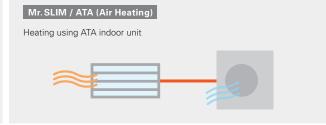
ecodan for Air-to-Water

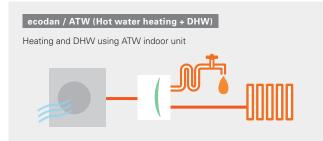
- ✓Domestic hot water (DHW) supply
- ✓ Heating for multiple rooms



Various operations









Specifications

Outdoor (V / F Capacity Total input EER Design load	PUHZ-FRP71VHA2 PUHZ-F		PEAD-M71JAQ	PEAD-M71JALQ							
Capacity Total input				PUHZ-FRP71VHA2	PUHZ-FRP71VHA2	PUHZ-FRP71VHA2	PUHZ-FRP71VHA2	PUHZ-FRP71VHA2	PUHZ-FRP71VHA2		
Capacity Total input	erant					R41	0A				
Total input	supply	nase / Hz)				230 / Sir	ngle / 50				
EER	r Cooling	Rated	kW	7.1	7.1	7.1	7.1	7.1	7.1		
EER		Min-Max	kW	3.3-8.1	3.3-8.1	3.3-8.1	3.3-8.1	3.3-8.1	3.3-8.1		
EER		Rated	kW	1.88	1.93	1.93	2.15	2.10	2.04		
				3.77	3.67	3.67	3.30	3.38	3.48		
Design load kW			kW	7.1	7.1	7.1	7.1	7.1	7.1		
Annual electr	F	city consumption *1	kWh/a	376	386	384	409	444	427		
SEER *3	-	ity concumption		6.6	6.4	6.4	6.0	5.5	5.8		
JEEN -		Energy-efficiency class		A ⁺⁺	A ⁺⁺	A ⁺⁺	A ⁺	3.5 A	A ⁺		
Capacity	Heating	Rated	kW	8.0	8.0	8.0	8.0	8.0	8.0		
Capacity	(average		kW	3.5-10.2	3.5-10.2	3.5-10.2	3.5-10.2	3.5-10.2	3.5-10.2		
Tatalliana	season)	Min-Max									
Total input		Rated	kW	2.11	2.29	2.29	2.42	2.11	2.11		
COP				3.80	3.50	3.50	3.30	3.79	3.79		
Design load			kW	4.7	4.7	4.7	4.7	4.9	4.9		
Declared capacity		at reference design temperature	kW	4.7 (–10°C)	4.7 (–10°C)	4.7 (–10°C)	4.7 (–10°C)	4.9 (–10°C)	4.9 (–10°C)		
., ,		at bivalent temperature	kW	4.7 (–10°C)	4.7 (-10°C)	4.7 (–10°C)	4.7 (–10°C)	4.9 (–10°C)	4.9 (-10°C)		
		at operation limit temperature	kW	3.5 (-20°C)	3.5 (-20°C)	3.5 (-20°C)	3.5 (-20°C)	3.7 (-20°C)	3.7 (-20°C)		
Back-up heating capacity			kW	0	0	0	0	0	0		
		ricity consumption *1	kWh/a	1,509	1,564	1,556	1,699	1,791	1,791		
SCOP *3				4.3	4.2	4.2	3.8	3.8	3.8		
		Energy-efficiency class		A ⁺	A ⁺	A ⁺	А	А	Α		
flow rate (for	Nominal	heating) L			ı	22.	90				
47W35	Heating*4	Capacity k		8.00	8.00 8.00 8.00 8.00		8.00	8.00			
		Input	kW	1.98	1.98	1.98	1.98	1.98	1.98		
		COP		4.05	4.05	4.05	4.05	4.05	4.05		
A2W35		Capacity	kW	7.50	7.50	7.50	7.50	7.50	7.50		
		Input	kW	2.67	2.67	2.67	2.67	2.67	2.67		
		COP		2.81	2.81	2.81	2.81	2.81	2.81		
N45		Capacity (ATA cooling + ATW)	kW	7.1+8.0	7.1+8.0	7.1+8.0	7.1+8.0	7.1+8.0	7.1+8.0		
	recovery (ATA	Input kW		1.90	1.93	1.95	2.02	2.15	2.13		
	cooling &	СОР		7.95	7.82	7.74	7.48	7.02	7.09		
N55	ATW) *5	Capacity (ATA cooling + ATW)	kW	7.1+9.0	7.1+9.0	7.1+9.0	7.1+9.0	7.1+9.0	7.1+9.0		
		Input kW		2.97	3.00	3.02	3.09	3.22	3.20		
				5.42	5.37	5.33	5.21	5.00	5.03		
or unit	ATW indo			Cylinder unit or Hydro box (see previous page)							
Dimensions	or unit	HxWxD	mm			943-950-3	330 (+30)				
Weight	,		kg	73	73	73	73	73	73		
Air volume		Cooling	m³/min	50	50	50	50	50	50		
		Heating	m³/min	50	50	50	50	50	50		
Sound pressure			dB(A)	47	47	47	47	47	47		
evel (SPL)		-	dB(A)	47	47	47	47	47	47		
		-	dB(A)	49	49	49	49	49	49		
		_	dB(A)	49	49	49	49	49	49		
Sound power		_	dB(A)	67	67	67	67	67	67		
evel (PWL)		_		67	67	67	67	67	67		
			dB(A)	68	68	68	68	68	68		
				68	68	68	68	68	68		
		_							19.0		
Operating cur	H								25		
		Liquid/Gas							9.52/15.88		
Breaker size		-		0.02/10.00	0.32/10.00			5.52/15.00	5.52/15.00		
Breaker size	-			20	20			20	20		
Breaker size Diameter Max. length		Out-III							-15~+46		
Breaker size Diameter Wax. length Wax. height		Cooling*2			- ID~+4b	-15~+4b	-10~+40	-15~+46	-15~+46		
Breaker size Diameter Wax. length Wax. height	nteed opera	Cooling *2			20 . 24	_20 .21	_20 .21	20 . 24	20 - 21		
Breaker size Diameter Wax. length Wax. height	nteed opera	Cooling *2 Heating ATW	°C	-20~+21 -20~+35	-20~+21 -20~+35	-20~+21 -20~+35	-20~+21 -20~+35	-20~+21 -20~+35	-20~+21 -20~+35		
	ping	d power (PWL) rating curr sker size neter . length	d power (PWL) Heat recovery ATA Heating ATW Heating rating current (max) sker size neter Liquid/Gas length Out-In . height Out-In	d power	Cooling dB(A) 67	Cooling dB(A) 67 67 67		Cooling dB(A) 67 67 67 67 67 67 67 6	Cooling dB(A) 67 67 67 67 67 67 67 6		

^{*1} Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*2 Optional air protection guide is required where ambient temperature is lower than –5°C.
*3 SEER/SCOP values are measured based on EN14825.
*4 Air-to-Water values are measured based on EN14511 (Circulation pump input is not included.).
*5 Conditions for Air-to-Air cooling: Indoor 27°C (dry bulb) /19°C (wet bulb); Outdoor 35°C (dry bulb).

PUMY+ecodan

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

1 unit, 2 roles - Total comfort year-round

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

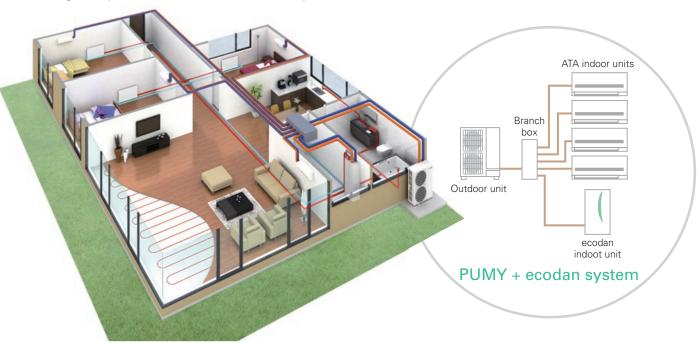
All-in-one outdoor unit (air conditioning, domestic hot water supply and hot water heating)

PUMY for Air-to-Air

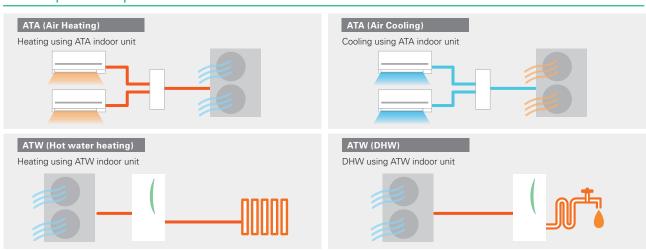
PUMY utilises various indoor units, enabling the air conditioning or heating of multiple rooms, and controls each unit individually.

ecodan for Air-to-Water

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



Main operation patterns



Optional operation patterns* (simultaneous)



Usage pattern All-in-one system solution

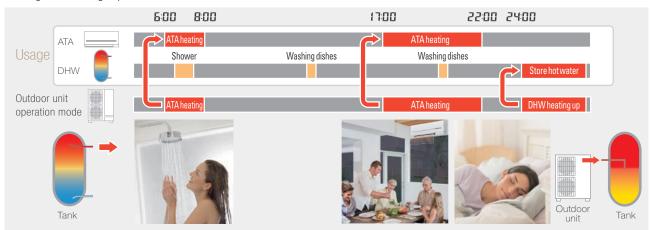
Summer 2-in-1 operation

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



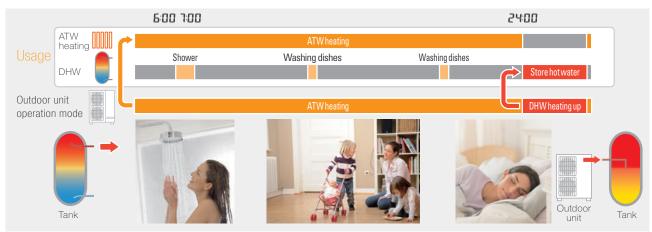
Spring & Autumn 2-in-1 operation

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



Winter ecodan

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



PUMY+ecodan

Model name	1									PUMY- P125YKM(E)4(-BS)						
Power suppl	'						se 220 - 230 - 240	V, 50Hz		se 380 - 400 - 415\	0 - 400 - 415V, 50Hz					
Air-to-Air	Cooling	Capacity			kW	12.5	14.0	15.5	12.5	14.0	15.5					
(ATA)	(nominal)*1	Power input			kW	2.79	3.46	4.52	2.79	3.46	4.52					
		EER				4.48 4.05 3.43 4.48 4.05 3.43										
	Temp. range	Indoor temp.			W.B.	15 - 24°C										
	of cooling	Outdoor temp.	*2		D.B.			-5 -	52°C							
	Heating	Capacity			kW	14.0	16.0	18.0	14.0	16.0	18.0					
	(nominal)*1	Power input			kW	3.04	3.74	4.47	3.04	3.74	4.47					
		COP				4.61	4.28	4.03	4.61	4.28	4.03					
	Temp. range	Indoor temp.			W.B.	15 - 27°C										
	of heating	Outdoor temp.			D.B.	−20 - 15°C										
Air-to-Water	Nominal flow	rate (for heating)			L/min			35	5.8							
(ATW)	Heating*3	A7W35	Capacity		kW			12	2.5							
			Power input		kW			3.	06							
			COP					4.	80							
		A2W35	Capacity		kW			10	0.0							
			Power input		kW			3.	50							
			COP					2.	86							
	Guaranteed	ATW	Heating		D.B.	−20 - +21°C										
	operating		DHW		D.B.	−20 - +35°C										
	range	ATA + ATW	ATA heating + DI	-IW	D.B.	7 - +21°C										
			ATA heating + AT	W heating *4	D.B.			-10 -	+21°C							
	Maximum Ou	ıtlet water temp).		°C			5	55							
Outdoor	Indoor unit	ATA Total capacity				50 to 130% of outdoor unit capacity										
unit	connectable	only	Model/	Branch box system		15-100/8	15-100/8	15-100/8	15-100/8	15-100/8	15-100/8					
			Quantity	Mixed system*12		15-140*5/10	15-140*5/10*6	15-140*5/10*6	15-140* ⁵ /10	15-140*5/10*6	15-140* ⁵ /10* ⁶					
		ATA + ATW	Total capacity			A	ATA: Max 130% of outdoor unit capacity + ATW (EHST20C or EHSC									
		individual		Branch box system		15-100/8	15-100/8	15-100/8	15-100/8	15-100/8	15-100/8					
		operation	(including ATW)	Mixed system*12		15-140* ⁵ /10	15-140*5/10*6	15-140*5/10*6	15-140* ⁵ /10	15-140*5/10*6	15-140* ⁵ /10* ⁶					
		ATA + ATW	Total capacity			l N	Max 100% of outdoor unit capacity: ATA + ATW (EHST20C or EHSC) *7									
		simultaneous	Model/Quantity	ATA*12		15/1*8	15/1*8 15-25/2*9 15-42* ¹¹ /3* ¹⁰ 15/1*8 1				15-42*11/3*10					
		operation		ATW				ATW (EHST20	C or EHSC) / 1							
	Sound pressu	ire level (measi	red in anechoic ro	oom)	dB <a>	49 / 51	50 / 52	51 / 53	49 / 51	50 / 52	51 / 53					
	Sound power	r level (measure	d in anechoic roo	n)	dB <a>	69 / 71	70 / 72	71 / 73	69 / 71	70 / 72	71 / 73					
	Refrigerant p	iping diameter		Liquid pipe	mm			9.52	flare							
				Gas pipe	mm			15.88	flare							
	Fan	Type x Quantit	У					Propelle	r fan × 2							
		Airflow rate			m³/min			1	10							
					L/s			1,8	383							
					cfm	3,884										
		Motor output			kW			0.074 -	+ 0.074							
	Compressor	Type x Quantit						Scroll hermetic	compressor x 1							
		Starting metho	od						erter							
		Motor output			kW	2.9	3.5	3.9	2.9	3.5	3.9					
		ensions (H × W :	× D)		mm			1,338 × 1,05	0 × 330 (+40)							
	Weight				kg		122		YI	KM: 125 / YKME: 1	36					

*1

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

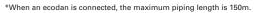
- *2 10 to 52°C D.B.: When connecting PKFY-P15/20/25VBM, PFFY-P20/25/32VKM, PFFY-P20/25/32VLE(R)M, PEFY-P*VMA3 or M, S and P series indoor unit.
- *4 In the case of ATW single connection. Input to circulation pump is not included.

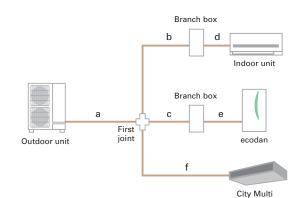
 *4 In the case of simultaneous operation of ATA heating and ATW heating, target flow temperature range is restricted to 45-55°C and when the ambient temp is under 7°C,
- the flow temp is lowered.
 *5 Up to P100 when connecting via branch box.
- *6 Up to 11 units when connecting via 2 branch boxes. *7 Only one ecodan unit can be connected.
- *8 Exceptionally, two MSZ-SF15VA or MSZ-AP15VF can be connected.

 *9 Exceptionally, two MSZ-SF15VA or MSZ-AP15VF can be connected.
- *10 Exceptionally, three MSZ-SF15VA or MSZ-AP15VF can be connected.
 *11 In the case of City Multi connection, maxmum is P32.
 *12 PKFY and PFFY series are not connectable.

Piping specifications

1 0 1			
Total piping length	m	150*	a+b+c+d+e+f
Farthest piping length	m	80	a+b+d or a+c+e
	1111	85	a+f
Total piping length betwen outdoor unit and branch box	m	55	a+b+c
Total piping length between branch boxes and indoor units	m	95	d+e
Farthest piping length from the first joint	m	30	b or c or f
Farthest piping length after branch box	m	25	d or e
Height difference (Outdoor upside / Outdoor downside)	m	50 / 40	





PUMY+ecodan compatibility table

ATW branch box connection compatibility table

Series	Туре	Model name	Compatibility	Type	Model
ATW	Cylinder	EHST20C-VM2/6C	•	Hydro	EHSC-
	unit	EHST20C-YM9C	•	box	EHSC-
		EHST20C-TM9C	•		EHSC-
		EHST20C-VM2/6EC	•		EHSC-
		EHST20C-YM9EC	•		
		EHST20C-MHCW	•		
		7,1	ATW Cylinder unit EHST20C-VM2/6C EHST20C-YM9C EHST20C-TM9C EHST20C-VM2/6EC EHST20C-YM9EC	ATW	ATW

Type	Model name	Compatibility
Hydro	EHSC-VM2(E)C	•
box	EHSC-VM6(E)C	•
	EHSC-YM9(E)C	•
	EHSC-TM9C	•

Type	Model name	Compatibility
Branch	PAC-MK53BC	•
box	PAC-MK33BC	•
	PAC-MK53BCB	•
	PAC-MK33BCB	•

Branch box connection compatibility table

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

LEV kit connection compatibility table

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

Connectable indoor unit capacity

Outdoor capacity 12.5kW

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

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

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

ATW indoor unit (Cylinder or Hydro box) 11.2kW	ATA capacity Max. 1.3kW *Exception	nally, one MS	Z-SF15VA or MSZ-AP15VF can be connected.
Outdoor capacity 14.0kW]	
ATW indoor unit (Cylinder or Hydro box) 11.2kW	ATA capacity Max. 2.8kW	*Exception	nally, two units of MSZ-SF15VA or MSZ-AP15VF can be connected.
Outdoor capacity 15.5kW			
ATW indoor unit (Cylinder or Hydro box) 11.2kW	ATA capacity M	ax. 4.3kW	*Exceptionally, three units of MSZ-SF15VA or MSZ-AP15VF can be

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

MELCloud (Wi-Fi interface) for ecodan

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

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

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

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



Key control and monitoring features

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

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

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



All A⁺⁺ line-up!!

except for ATA & ATW hybrid system, I	Mr. SLIM+		For medium-temperature application						For low-temperature application							
Outdoor unit	Indoor unit	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level LWA indoor	Sound power level LWA outdoor	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level LWA indoor	Sound power level LWA outdoor	
SUHZ-SW45VA (-H)	EHST20D-****	A++	А	4.6	126	109	40	61	A++	А	5.0	170	109	40	61	
	ERST20D-****	A++	А	4.6	128	109	40	61	A++	Α	5.0	174	109	40	61	
	EHSD-***	A++	-	4.6	126	-	40	61	A++	-	5.0	170	-	40	61	
	ERSD-***	A++	-	4.6	128	-	40	61	A++	-	5.0	174	-	40	61	
PUHZ-SW50VKA (-BS)	EHST20D-****	A++ A++	A	4.3	125	98	40	63	A++	A	4.5	163	98	40	63	
	ERST20D-**** EHSD-***	A++	A _	4.3	128 125	98	40	63 63	A++ A++	_ A	4.5 4.5	167 163	98	40	63 63	
	ERSD-****	A++	_	4.3	128	_	40	63	A++	_	4.5	167	_	40	63	
PUHZ-SW75VAA/YAA (-BS)	EHST20D-****	A++	А	7.1	129	104	40	58	A++	Α	7.2	162	104	40	58	
	ERST20D-****	A++	Α	7.1	132	104	40	58	A++	Α	7.2	166	104	40	58	
	EHSD-***	A++	-	7.1	129	-	40	58	A++	-	7.2	162	-	40	58	
	ERSD-***	A++	-	7.1	132	-	40	58	A++	-	7.2	166	-	40	58	
PUHZ-SW100VAA/YAA (-BS)	EHST20C-**** ERST20C-****	A++ A++	A	10.0	130 132	103 103	40	60 60	A++ A++	A	10.6 10.6	167 170	103 103	40	60	
	EHSC-***	A++	_	10.0	130	-	40	60	A++		10.6	167	-	40	60	
	ERSC-***	A++	-	10.0	132	-	40	60	A++	-	10.6	170	-	40	60	
PUHZ-SW75VHA (-BS)	EHST20D-****	A++	А	7.1	127	100	40	68	A++	А	7.2	164	100	40	68	
	ERST20D-****	A++	А	7.1	129	100	40	68	A++	Α	7.2	166	100	40	68	
	EHSD-***	A++	-	7.1	127	-	40	68	A++	_	7.2	164	-	40	68	
PUHZ-SW75VHA (-BS)	ERSD-**** EHST20C-****	A++ A++	- А	7.1	129 127	103	40	68 68	A++ A++	_ A	7.2 7.2	166 165	103	40 40	68 68	
1 OHZ OW/ (9 VIIA (-00)	ERST20C-****	A++	A	7.1	127	103	40	68	A++	A	7.2	167	103	40	68	
	EHSC-***	A++	-	7.1	127	-	40	68	A++	-	7.2	165	-	40	68	
	ERSC-***	A++	-	7.1	129	-	40	68	A++	-	7.2	167	-	40	68	
PUHZ-SW100VHA/YHA (-BS)	EHST20C-****	A++	Α	10.0	125	103	40	70	A++	Α	10.4	164	103	40	70	
	ERST20C-****	A++	Α	10.0	127	103	40	70	A++	Α	10.4	166	103	40	70	
	EHSC-*** ERSC-***	A++ A++	-	10.0	125	-	40	70 70	A++ A++	-	10.4	164	-	40	70	
PUHZ-SW120VHA/YHA (-BS)	EHST20C-***	A++	- А	10.0 12.0	127 125	99	40	70	A++	_ A	10.4 12.9	166 162	99	40	70	
10112 000 1200 1120 1112 (150)	ERST20C-****	A++	A	12.0	127	99	40	72	A ⁺⁺	A	12.9	164	99	40	72	
	EHSC-***	A++	-	12.0	125	-	40	72	A ⁺⁺	-	12.9	162	-	40	72	
	ERSC-***	A++	-	12.0	127	-	40	72	A ⁺⁺	-	12.9	164	-	40	72	
PUHZ-SW160YKA (-BS)	EHSE-***	A++	-	13.5	125	-	45	78	A++	-	15.3	161	-	45	78	
DILLIZ CIA/200V/KA / DC)	ERSE-*** EHSE-***	A++ A++	_	13.5	126	-	45	78	A++ A++	_	15.3	163	-	45	78	
PUHZ-SW200YKA (-BS)	ERSE-***	A++	_	15.5 15.5	128 129	_	45 45	78 78	A++	_	17.3 17.3	162 164	_	45 45	78 78	
PUHZ-SHW80VAA/YAA (-BS)	EHST20C-***	A++	А	9.0	123	103	40	59	A++	А	9.6	169	103	40	59	
	ERST20C-****	A++	Α	9.0	135	103	40	59	A++	Α	9.6	172	103	40	59	
	EHSC-***	A++	-	9.0	133	-	40	59	A++	-	9.6	169	-	40	59	
	ERSC-***	A++	-	9.0	135	-	40	59	A++	-	9.6	172	-	40	59	
PUHZ-SHW112VAA/YAA (-BS)	EHST20C-**** ERST20C-****	A++ A++	A	12.7 12.7	125 137	103 103	40	60	A++ A++	Α Λ	13.9 13.9	171 173	103	40	60	
	EHSC-***	A++	A	12.7	135	-	40	60 60	A++	_ A	13.9	173	103	40	60	
	ERSC-***	A++	-	12.7	137	-	40	60	A++	-	13.9	173	-	40	60	
PUHZ-SHW80VHA (-BS)	EHST20C-****	A++	А	9.0	131	103	40	69	A++	Α	9.6	171	103	40	69	
	ERST20C-****	A++	Α	9.0	133	103	40	69	A++	Α	9.6	174	103	40	69	
	EHSC-*** ERSC-***	A ⁺⁺	-	9.0	131	-	40	69	A++	_	9.6	171 174	-	40	69	
PUHZ-SHW112VHA/YHA (-BS)	EHST20C-***	A++	_ A	9.0	133 128	103	40	70	A++ A++	Α	9.6 13.9	1/4	103	40	70	
	ERST20C-****	A++	A	12.7	130	103	40	70	A++	A	13.9	169	103	40	70	
	EHSC-***	A++	-	12.7	128	-	40	70	A++	-	13.9	167	-	40	70	
	ERSC-***	A++	-	12.7	130	<u> </u>	40	70	A++	-	13.9	169		40	70	
PUHZ-SHW140YHA (-BS)	EHST20C-***	A++	A	15.8	127	103	40	70	A++	A	17.0	164	103	40	70	
	ERST20C-**** EHSC-***	A++ A++	A	15.8 15.8	128 127	103	40	70 70	A++ A++	A	17.0 17.0	165 164	103	40 40	70 70	
	ERSC-***	A++	-	15.8	127	-	40	70	A++	_	17.0	165	-	40	70	
PUHZ-SHW230YKA2	EHSE-***	A++	-	23.0	127	-	45	75	A++	-	25.0	164	-	45	75	
	ERSE-***	A++	-	23.0	128	-	45	75	A++	-	25.0	165	-	45	75	
PUHZ-W50VHA2 (-BS)	EHPT20X-***	A++	Α	5.0	127	99	40	61	A++	Α	5.0	162	99	40	61	
DI ILIZ MOEVILA 2 / DCV	EHPX-*** EHPT20X-***	A ⁺⁺	_	5.0	127	- 07	40	61	A ⁺⁺ A ⁺⁺	_	5.0	162	- 07	40	61	
PUHZ-W85VHA2 (-BS)	EHP120X-****	A++	A _	8.5 8.5	128 128	97	40	66 66	A++	A	8.5 8.5	162 162	97	40	66	
PUHZ-W112VHA (-BS)	EHPT20X-***	A++	A	10.0	125	100	40	69	A++	A	10.0	164	100	40	69	
	EHPX-***	A++		10.0	125	-	40	69	A++	-	10.0	164	-	40	69	
PUHZ-HW112YHA2 (-BS)	EHPT20X-***	A++	Α	12.7	126	100	40	67	A++	Α	12.7	155	100	40	67	
DIVIZ LINE CONTINUE C	EHPX-***	A++	-	12.7	126	-	40	67	A++	-	12.7	155	-	40	67	
PUHZ-HW140VHA2/YHA2 (-BS)	EHPT20X-**** EHPX-***	A++ A++	A _	15.8 15.8	126 126	96	40	67 67	A++ A++	Α	15.8 15.8	157 157	96	40	67 67	
	LIII A	_ A		15.8	120		40	0/	A		15.8	15/		40	6/	
PUHZ-FRP71VHA2	EHST20C-***	A ⁺	А	7.5	123	98	40	68	A++	Α	7.5	163	98	40	68	
ATA & ATW hybrid system, Mr. SLIM+	EHSC-***	A ⁺	-	7.5	123	-	40	68	A++	-	7.5	163	-	40	68	
PUMY-P112VKM3/YKM(E)4 (-BS)	EHST20C-***	A ⁺	Α	11.2	121	75	40	69	A++	Α	11.2	168	75	40	69	
DUMAY DAOGY//Changary	EHSC-***	A+	-	11.2	121	- 75	40	69	A++	_	11.2	168	- 75	40	69	
PUMY-P125VKM3/YKM(E)4 (-BS)	EHST20C-***	A ⁺	A -	11.2 11.2	121 121	75 -	40	69 69	A ⁺⁺	_ A	11.2 11.2	168 168	75 –	40	69 69	
											11.4	108	1	+∪	1 69	
PUMY-P140VKM3/YKM(E)4 (-BS)	EHSC-**** EHST20C-****	A ⁺	А	11.2	121	75	40	69	A++	Α	11.2	168	75	40	69	

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

NEW ECODESIGN DIRECTIVE

WHAT IS THE ErP DIRECTIVE?

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

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

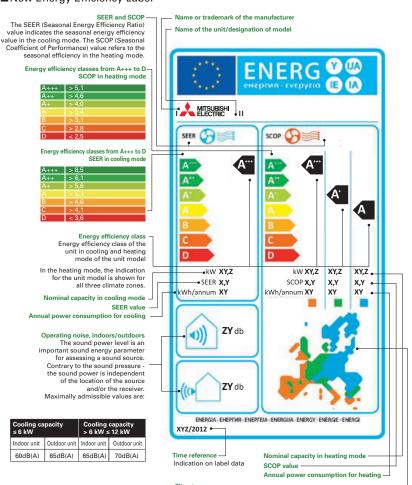
NEW ENERGY LABEL AND MEASUREMENTS

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

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

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

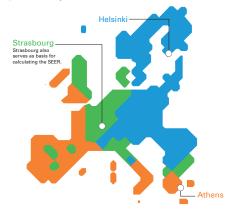
■New Energy Efficiency Label



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

■Climate Zones for Heating Mode

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



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

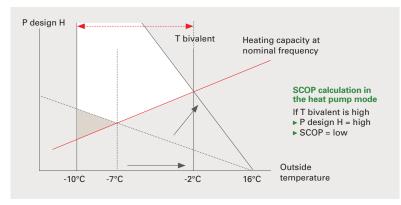
Moderate (Strasbourg)				
	Temperat	ure conditions		
Partial	Outdoors		Indoors	
load	DB	WB	DB	
88%	-7°C	–8°C	20°C	
54%	2°C	1°C	20°C	
35%	7°C	6°C	20°C	
15%	12°C	11°C	20°C	

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

SEER/SCOP

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

■SCOP Calculation



Technical Terms with Respect to the SCOP

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

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

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

SOUND PRESSURE LEVEL

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

■Sound Pressure vs Sound Power Level



Sound pressure level dB(A)

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

Sound power level dB(A)

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

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

INVERTERS — HOW THEY WORK

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

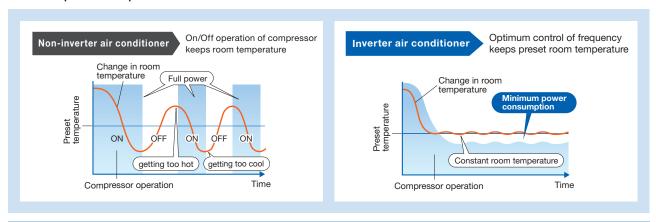
ECONOMIC OPERATION

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

TRUE COMFORT

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

■ Inverter operation comparison



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

Point 1 Quick & Powerful

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

Point 2 Room Temperature Maintained

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

KEY TECHNOLOGIES

Our Rotary Compressor

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

Our Scroll Compressor

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

MORE ADVANTAGES WITH MITSUBISHI ELECTRIC



Joint Lap DC Motor

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







Magnetic Flux Vector Sine Wave Drive

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



Reluctance DC Rotary Compressor

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

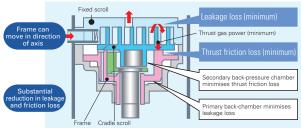




Highly Efficient DC Scroll Compressor

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







Heat Caulking Fixing Method

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





DC Fan Motor

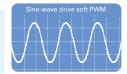
A highly efficient DC motor drives the fan of the outdoor unit. Efficiency is much higher than an equivalent AC motor.

Vector-Wave Eco Inverter

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

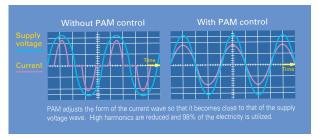
Smooth wave pattern

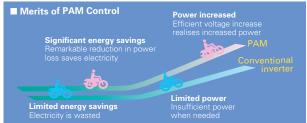
Inverter size has been reduced using insertmolding, where the circuit pattern is molded into the synthetic resin. To ensure quiet operation, soft PWM control is used to prevent the metallic whine associated with conventional inverters.



PAM PAM (Pulse Amplitude Modulation)

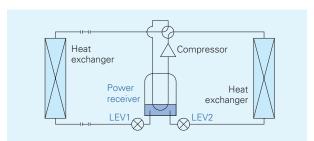
PAM is a technology that controls the current waveform so that it resembles the supply voltage wave, thereby reducing loss and realising more efficient use of electricity. Using PAM control, 98% of the input power supply is used effectively.





Power Receiver and Twin LEV Control

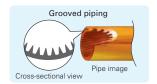
Mitsubishi Electric has developed a power receiver and twin linear expansion valves (LEVs) circuit that optimise compressor performance. This technology ensures optimum control in response to operating waveform and outdoor temperature. Operating efficiency has been enhanced by tailoring the system to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





Grooved Piping

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

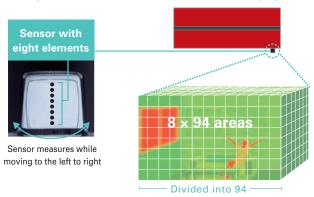


COMFORT

3D i-see Sensor

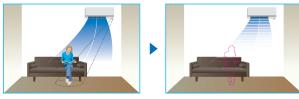
3D F-see Sensor for M SERIES

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



No occupancy energy-saving mode

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



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

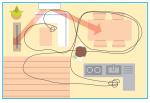
Indirect Airflow

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



Even Airflow *LN Series only

Normal swing mode



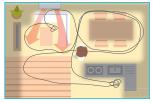
The airflow is distributed equally throughout the room, even to spaces where there is no

Direct Airflow

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



Even airflow mode



The 3D i-see sensor memorizes human move-ment and furniture positions, and efficiently

No occupany Auto-OFF mode *LN Series only

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





3D F-see Sensor for S & P SERIES

Detects number of people

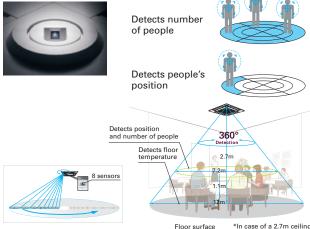
The 3D i-see Sensor detects the number of people in the room and adjusts the power accordingly. This makes automatic power-saving operation possible in places where the number of people changes frequently. Additionally, when the area is continuously unoccupied, the system switches to a more enhanced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

Detects people's position

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

Highly accurate people detection

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



Detects number of people

Room occupancy energy-saving mode

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

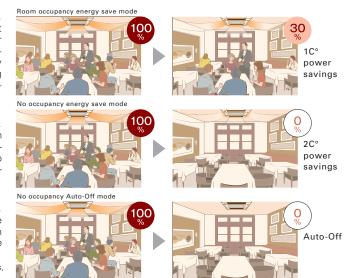
No occupancy energy-saving mode

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

No occupancy Auto-OFF mode*

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

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



*PAR-33MAA is required for each setting

Detects people's position

Direct/Indirect settings*

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



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

Seasonal airflow*

When cooling

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

When heating

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

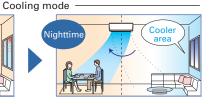


*PAR-33MAA is required for each setting

🔣 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.

Daytime Warmer area



ENERGY-SAVING



Econo Cool Energy-Saving Feature

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

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

Econo Cool Mode

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

Econo Cool on



Conventional cooling mode



Demand Control

Demand Function (Onsite Adjustment)

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

[Example: Power Inverter Series]

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

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

*PUHZ outdoor only



AIR QUALITY



Plasma Quad Plus

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



Plasma Quad

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



Dual Barrier Coating

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



Fresh-air Intake

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



High-efficiency Filter

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



Air Purifying Filter

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



Oil Mist Filter

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



Long-life Filter

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



Filter Check Signal

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



Silver-ionized Air Purifier Filter

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

AIR DISTRIBUTION

Double Vane

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

Horizontal Vane

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

🥎 Vertical Vane

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

High Ceiling Mode

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

Low Ceiling Mode

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

♣ Auto Fan Speed Mode

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

CONVENIENCE

CONVENIENCE



"i save" Mode

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

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







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



Auto Changeover

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



Low-temperature Cooling

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



Ampere Limit Adjustment

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

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



Operation Lock (Indoor unit)

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



Operation Lock (Outdoor unit)

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



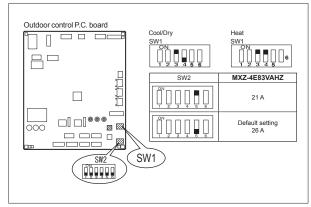
Auto Restart

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

10°C Heating

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

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



Night Mode

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

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



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



On/Off Operation Timer

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

Weekly Timer

Built-in Weekly Timer Function

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

■ Example Operation Pattern (Winter/Heating mode)

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
c.00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
6:00			Automatically change	es to high-power opera	tion at wake-up time		
8:00							
10:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00 14:00	Automatically turned off during work hours Midday is warmer, so the temperature is set lower						
1P:00							
18:00	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C
20:00 20:00	Automatically turns on, synchronized with arrival at home Automatically raises temperature setting to match time when outside-air temperature is						nperature setting to de-air temperature is low
(during sleeping hours)	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
	Automatically lowers temperature at bedtime for energy-saving operation at night						

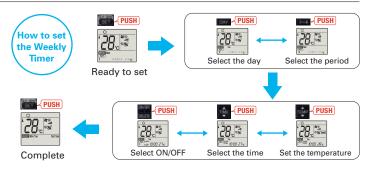


Pattern Settings: Input up to four settings for each day

 $\textbf{Settings: } \bullet \textbf{Start/Stop operation } \bullet \textbf{Temperature setting} \quad \textbf{*} \textbf{The operation mode cannot be set.}$

■ Easy set-up using dedicated buttons





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

INSTALLATION & MAINTENANCE

INSTALLATION



Cleaning-free Pipe Reuse

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

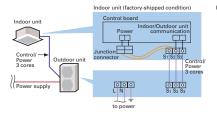
Reuse of Existing Wiring

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

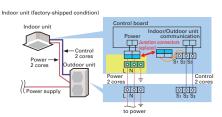
The wiring method has been improved, making it possible to use methods different from that utilized for control and power supply. Units are compatible with the dual harness control line/power line method and the separate power supply method. Using a power supply terminal kit, wire can be efficiently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

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

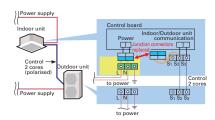
Single Harness Control/Power Line Method (Current method)



Dual Harness Control Line/Power Line Method



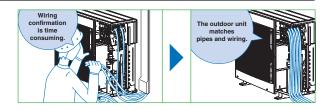
Separate Power Supply Method



Wiring/Piping Correction Function*

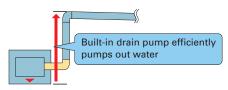
The push of a single button is all that is required to confirm that piping and wiring are properly connected. Corrections are made automatically if a wiring error is detected, eliminating the need for complicated wiring confirmation work when expanding the number of rooms served

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



Drain Pump

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





Flare connection to cooling pipe work is possible.

Pump Down Switch

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

Outdoor unit control circuit board



Pump Down Switch

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

MAINTENANCE



Self-Diagnostic Function (Check Code Display)

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

Failure Recall Function

Operation failures are recorded, allowing confirmation when needed.

SYSTEM CONTROL

SYSTEM CONTROL



PAR-33MAA/PAC-YT52CRA

Units are compatible for use with the PAR-33MAA or PAC-YT52CRA remote controller, which has a variety of management functions.



System Group Control

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



M-NET Connection

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



COMPO (Simultaneous Multi-unit Operation)

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



MXZ MXZ Connection

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

MELCloud (Wi-Fi interface)

MELCloud for fast, easy remote control and monitoring

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

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

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

Key control and monitoring features

- Turn system on/off
- See status of operating & adjust set point
- Continue the state of the st Schedule timer - Set 7 day weekly schedule Error status
- Energy Consumption Monitoring
 - *MSZ-LN, AP Series are available

















MELCloud uses the MAC-567IF-E interface

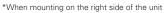
Connecting the Wi-Fi interface

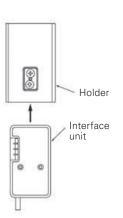
The new Wi-Fi interface MAC-567IF-E can be mounted on the wall or on the outer side of the indoor unit. For LN Series, there is a built-in Wi-Fi interface inside the indoor unit.

When mounting on the wall

The interface can be mounted simply by affixing the holder to the wall on either side of the unit and inserting the interface unit into the holder.

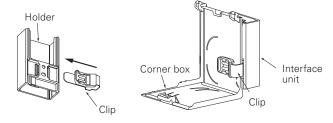






When mounting on the outer side of the unit

The interface can be mounted on the right side, left side, bottom right, or bottom left of the indoor unit. After inserting the clip into the holder, slip the clip over the edge of the corner box.









Bottom right



Left side



Bottom left

CONTROL TECHNOLOGIES



User-friendly Deluxe Remote Controller with Excellent Operability and Visibility

PAR-33MAA

Easy To Read & Easy To Use

Full Dot Liquid-crystal Display Adopted

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

Display Example [Operation Mode]

Full Dot LCD



Multi-language Display

Multilanguage

Control panel operation in eight different languages

Choose the desired language, among the following languages.

PAR-33MAA

English	Spanish	Italian	Turkish
French	Greek	Portuguese	Swedish
PAR-33MAAG			
English	Gorman	Franch	Puccian

PAR-33MAAG			
English	German	French	Russian
Polish	Czech	Hangarian	Dutch

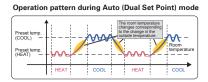
Temperature Control



Two preset temperatures

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

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



^{*}Please refer to the function list on pages 176-178 for the combination of the available units.

Energy-efficient Control

Operation Control Functions

Energy-Schedule

Precise control of power consumption

The amount of power consumed in each time period is managed so that the demand value is not exceeded. The demand control function can be set to start and finish in 5-minute units. Additionally, the level can be adjusted to 0, 50, 60, 70, 80 or 90% of maximum capacity, and up to 4 patterns can be set per day. Air-conditioning operation is automatically controlled to ensure that electricity in excess of the contracted volume is not consumed.

■ Setting pattern example

0 1			
Start time		Finish time	Capacity savings
8:15	\rightarrow	12:00	80%
12:00	\rightarrow	13:00	50%
13:00	\rightarrow	17:00	90%
17:00	\rightarrow	21:00	50%

Auto-return

Prevents wasteful operation by automatically returning to the preset temperature after specified operating time

After adjusting the temperature for initial heating in winter or cooling on a hot summer day, it is easy to forget to return the temperature setting to its original value. The Auto-return function automatically resets the temperature back to the original setting after a specified period of time, thereby preventing overheating/overcooling. The Auto-return activation time can be set in 10-minute units, in a range between 30 and 120 minutes.

*Auto-return cannot be used when Temperature Range Restrictions is in use.

Night Setback

Keep desired room temperatures automatically

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

Temperature Range Restriction

Temperature Range Restriction prevents overheating/overcooling

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

*In-house calculations



Auto-off Timer

Turns heating/cooling off automatically after preset time elapses

When using Auto-off Timer, even if one forgets to turn off the unit, operation stops automatically after the preset time elapses, thereby preventing wasteful operation. Auto-off Timer can be set in 10-minute units, in a range between 30 minutes and 4 hours. Eliminates all anxiety about forgetting to turn off the unit.

Recommended for Meeting room Changing room

Operation Lock

Fixed temperature setting promotes energy savings

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

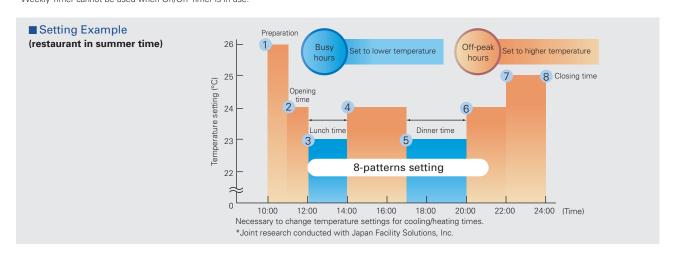
Recommended for Office School Public hall
Hospital Computer server facility

Weekly Timer

Set up to 8 patterns per day including temperature control

The Weekly Timer enables the setting of operation start and finish times and adjusting the temperature as standard features. Up to 8 patterns per day can be set, providing operation that matches the varying conditions of each period, such as the number of customers in the store.

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



CONTROL TECHNOLOGIES

Installation/Maintenance Support Functions



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

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

■ Smooth Maintenance Function Operating Procedure



Display information (11 items)

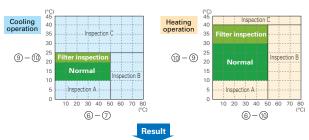
Compressor		6	OU TH4 temp. (°C)
1	COMP. current (A)	OU TH6 temp. (°C)	
2	COMP. run time (Hr)	8	OU TH7 temp. (°C)
3	COMP. ON/OFF (times)	Indoor Unit	
4	COMP. frequency (Hz)		
Outdoor Unit		10	IU HEX temp. (°C)
5	Sub cool (°C)	11)	IU filter operating time* (Hr)

^{*}IU filter operating time is the time elapsed since filter was reset.

Inspection Guidelines

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

		ltem
Caalina	Temp. difference	(⑥ OU TH4 temp.) – (⑦ OU TH6 temp.)
Cooling		(() IU air temp.) – (() IU HEX temp.)
Harden o		(⑥ OU TH4 temp.) – (⑩ IU HEX temp.)
Heating		(@ IU HEX temp.) – (@ IU air temp.)



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

- *1: Due to indoor and outdoor temperatures, "Filter inspection" may be displayed even if the filter is
- The above graphs are based on trial data. Results may vary depending on installation/temperature conditions.
- conditions.

 Stable operation may not be possible under the following temperature conditions:
 a) In cooling mode when the outdoor induction temperature is over 40°C or the indoor induction temperature is below 23°C.
 b) In heating mode when the outdoor induction temperature is over 20°C or when the indoor induction temperature is over 25°C.

 If the above temperature conditions do not apply and stable operation is not achieved after 30 minutes has passed, please inspect the units.

 The operating status may change due to frost on the outdoor heat exchanger.

Manual Vane Angle Setting (4-way ceiling cassette)

Direction of vertical airflow for each vane can be set

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

Autodescending **Panel** Operation

Easily raise/lower panels using the remote controller

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



Easily check refrigerant leakage

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



Three outdoor noise level setting

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



Password for initial settings

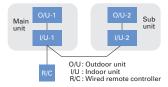
A password is required (default setting is "0000") for initial settings such as time and display language.

Rotation, Back-up and 2nd Stage Cut-in Functions (PAR-33MAA)

(1) Rotation and Back-up Functions Function Outline

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

System Image



(2) 2nd Stage Cut-in Function

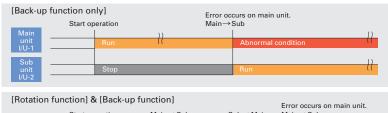
Function Outline

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

System Constraint

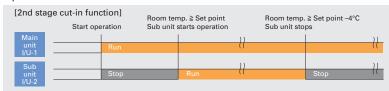
 This function is only available for rotation operation and when the back-up function is in cooling mode.

Operation Pattern





Operation Pattern



Flat

back

* MIRWE

0 * X

70mm (2-3/4 in)

120mm (4-23/32 in

Simple MA Remote Controller PAC-YT52CRA

Backlit LCD

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

Flat Back

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

Vane Angle Setting

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

Pressing the 📆 button will switch the vane direction.



14.5mm (9/16 in) Dual Set Point

Two preset temperatures

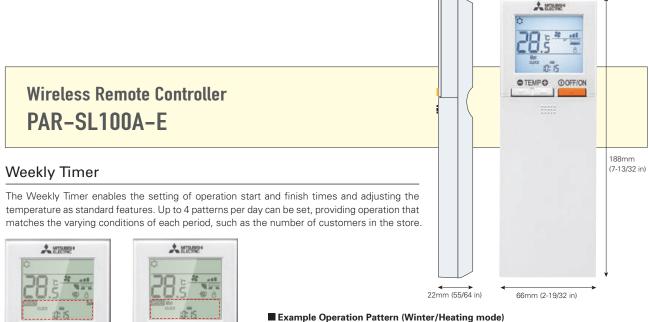
When the operation mode is set to the Auto (Dual Set Point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the COOL or HEAT mode and keep the room temperature within the preset range.

Operation pattern during Auto (Dual Set Point) mode Preset temp. (COOL) Preset temp. (REAT)

*Please refer to the function list on pages 176-178 for the combination of the available units.

- * The settable vane directions vary depending on the indoor unit model to be connected.
- * If the unit has no vane function, the vane direction cannot be set. In this case, the vane icon flashes when the 📆 button is pressed.

CONTROL TECHNOLOGIES



	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
r.00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
5:00			Automatically change	s to high-power opera	tion at wake-up time		
800							
10:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00 14:00		Automatic	ally turned off during v	vork hours		Midday is warmer, so the temperatur	e is set lower
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
2000 2000		Automatically turn	ns on, synchronized wi	th arrival at home		Automatically raises ten match time when outsid	nperature setting to de-air temperature is low
(during	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
hours)		Automa	tically lowers tempera	ture at bedtime for en	ergy-saving operation a	t night	
(during sleeping	ON 18°C	ON 18°C Automa	ON 18°C tically lowers tempera	ON 18°C ture at bedtime for ene	ON 18°C ergy-saving operation a	ON 18°C	

- *Weekly Timer cannot be used when On/Off Timer is in use.
- *Only for SLZ-KF25/35/50/60VA2, PLA-ZP/RP35/50/60/71/100/125/140EA

Backlight

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

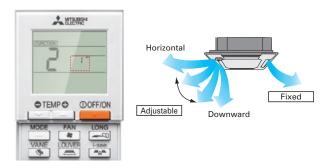
WEEKLY @





Individual Vane Settings

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



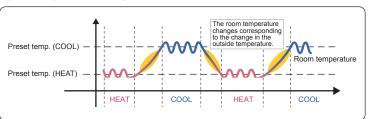
Dual Set Point

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





Operation pattern during Auto (Dual Set Point) mode



* Only available for compatible models

Battery Replacement Sign



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

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

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





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





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

Basic Functions

Functions	Button	Liquid crystal
OFF / ON	① OFF/ON	
Preset temperature	● TEMP ●	88. š
Mode	MODE	Cool Dry Heat Fan Auto Dual set point *Dual Set Point function not operational first use.
Fan speed	FAN	4-Speed Auto
Vane angle	VANE 🧖	5-step Swing Auto
3D i-see Sensor	i-see	Direct Indirect
Send sign		*
Battery replacement sign		
Function setting		(FUNCTION)
Test run		TEST
Self check		(CHECK)
Not available		N/A

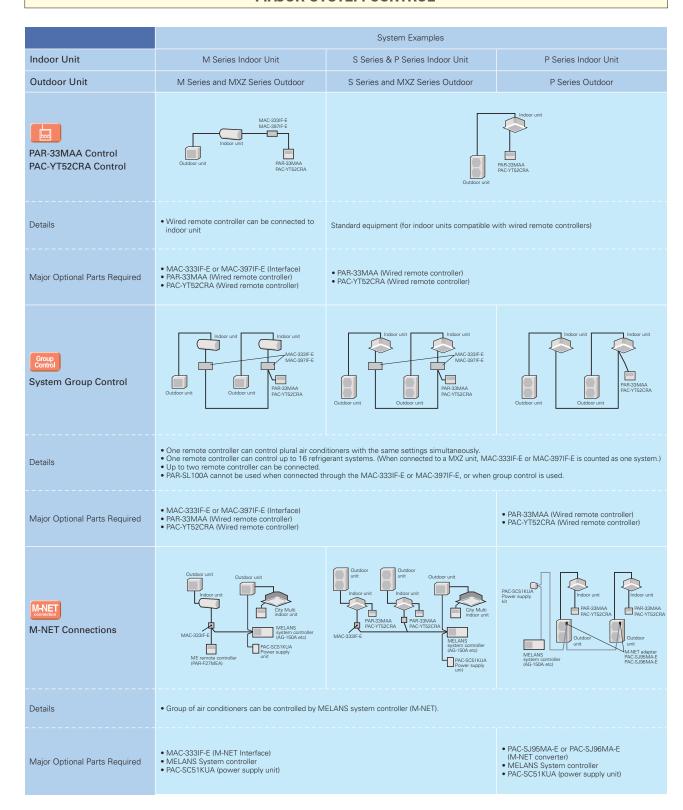
^{*}This remote controller is only compatible with the following models: SLZ-M15/25/35/50/60FA, PLFY-P15/20/25/32/40/50VFM-E1, PLA-ZM/RP35/50/60/71/100/125/140EA, PLFY-P20/25/32/40/50/63/80/100/125VEM-E

^{*}Functions available vary according to the model.

SYSTEM CONTROL

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

MAJOR SYSTEM CONTROL

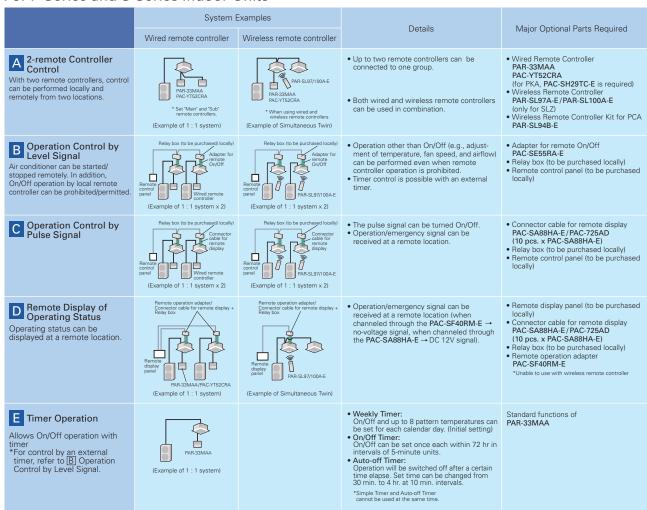


OTHERS

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

	System Examples	Connection Details	Control Details	Major Optional Parts Required
Remote On/Off Operation • Air conditioner can be started/ stopped remotely. (1) and 2) can be used in combination)	MAC-333IF-E MAC-337F-E MAC-397F-E Switch Switch Outdoor unit Remote control section to be purchased locally)	Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.	On/Off operation is possible from a remote location.	MAC-333IF-E or MAC-397IF-E (Interface) Parts for circuit such as relay box, lead wire, etc. (to be purchased locally)
2 Remote Display of Operation Status • The On/Off status of air conditioners can be confirmed remotely. (1) and 2) can be used in combination)	MAC-33/FE Power supply MAC-37/FE Power supply	Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.	The operation status (On/Off) or error signals can be monitored from a remote location.	MAC-333IF-E or MAC-397IF-E (Interface) Parts for circuit to be purchased locally (DC power source needed) External power source (12V DC) is required when using MAC-333IF-E.

For P Series and S Series Indoor Units



FUNCTION LIST (1)

ategory	Icon														M SE	RIES											
		nation	Indoor unit	MSZ	-LN18/2	25/35/50)/60VG	(W)(V)(R)(B)		MSZ	-AP15/	20VF			MSZ	Z-AP25/	35/42/5	0VG			MS	Z-FH25	5/35/50\	VE2		
		Combination	Outdoor unit	MUZ -LN	MXZ -2D/F	MXZ -3E/F	MXZ -4E/F	MXZ -5E	MXZ -6D	MXZ -2D/F	MXZ -3E/F	MXZ -4E/F	MXZ -5E	MXZ -6D	MUZ -AP	MXZ -2D/F	MXZ -3E/F	MXZ -4E/F	MXZ -5E	MXZ -6D	MUZ -FH	MXZ -2D	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	
chnology	DC Inverter			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Joint Lap DC Mot	or		•		•	72/83VA	•	•	•	•	72/83VA			•	•	•	72/83VA	•		•	•	•	72/83VA	•		
	Reluctance DC Rota	ary	Compressor				83	•	•			83	•	•				83	•	•				83	•	•	
	Heating Caulking	(Co	empressor)	•	•	•	72/83VA	•		•	•	72/83VA	•			•	•	72/83VA	•		•	•	•	72/83VA	•		
	DC Fan Motor			•		•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•		
	PAM (Pulse Ampli	itud	de Modulation)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Power Receiver and	d Tv	vin LEV Control			•	72				•	72					•	72					•	72			
	Grooved Piping			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
i-see Sensor	Felt Temperature Con	ntrol	(3D i-see Sensor)	•	•	•	•	•	•												•	•	•	•	•	•	
	AREA Temperatur	re N	Monitor	•	•	•	•	•	•												•	•	•	•	•	•	
Energy Saving	Econo Cool Energ	gy-s	saving Feature	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Saving	Standby Power C	ons	sumption Cut	•											•						•						
Air Quality	Plasma Quad Plu	IS		•	•	•	•	•	•																		
	Plasma Quad																				•	•	•	•	•	•	
	Dual Barrier Coat	ing		•	•	•	•	•	•																		
	Silver-ionized Air F	Puri	ifier Filter	Opt	Opt	Opt	Opt	Opt	Opt						Opt	Opt	Opt	Opt	Opt	Opt	•	•	•	•	•		
	Air Purifying Filter	r													•	•	•	•	•	•							
Air Distribution	Double Vane			•	•	•	•	•	•												•	•	•	•	•	•	
Distribution	Horizontal Vane			•		•	•	•	•	•	•	•		•	•		•	•	•	•	•	•	•	•	•		
	Vertical Vane			•	•	•	•	•	•												•	•	•	•	•	•	
	High Ceiling Mode	е																									
	Auto Fan Speed N	Mod	de	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Convenience	On/off Operation	Tim	ier	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	"i save" Mode			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Auto Changeover			•	●*1	●*1	●*1	●*1	●*1	●*1	●*1	●*1	●*1	●*1	•	●*1	●*1	●*1	• *1	• *1	•	●*1	●*1	●*1	●*1	●*1	
	Auto Restart			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Low-temperature	Co	oling	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	10°C Heating			•	•	•	•	•	•																		
	Low-noise Operat	tion	(Outdoor Unit)		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•	
	Night Mode			•	• *4	• *4	• *4	• *4	• *4																		
	Ampere Limit Adju	ustr	ment		2E		83	•	•	2E		83	•	•		2E		83	•	•		2E		83	•	•	
	Operation Lock (II	ndo	oor)	•	•	•	•	•	•																		
	Operation Lock (C	Duto	door)		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•	
	Built-in Weekly Ti	mei	r Function	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
System	PAR-33MAA Cont	trol	*3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	_
Control	PAC-YT52CRA C	ont	rol *3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	Centralised On/O	ff C	Control *3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	System Group Co	ontr	ol *3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	M-NET Connection	n *:	3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	Wi-Fi Interface			•	•	•	•	•	•	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	MXZ Connection				• *2	• *2	• *2	• *2	• *2	• *2	• *2	• *2	• *2	• *2		* 2	• *2	• *2	• *2	• *2		• *2	•*2	• *2	•*2	• *2	
Installation	Cleaning-free Pip	e R	leuse	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Wiring/Piping Cor	rec	tion Function		•	•	•	•	•		•	•	•	•		•	•	•	•	•		•	•	•	•	•	
	Drain Pump																										
	Flare Connection			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Maintenance	Self-Diagnosis Function	n (Ch	heck Code Display)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
1	Failure Recall Fur					•	•	•		•	•			•	•					•	•	•				•	_

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

*2 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on page 101-102 for details.

*3 Please refer to "System Control" on pages 171-172 for details.

*4 When connected to MXZ outdoor units, the outdoor operating sound will not change.

														M SE	RIES							MSZ-							MSZ-
MSZ-	EF18/2	2/25/35	/42/50\	/E3(W)((B)(S)		MSZ	Z-SF15/	20VA			MSZ	-SF25/3	35/42/50	OVE3			MSZ-0	GF60/71	VE2		WN25/ 35VA	MSZ	-DM25/3	B5VA	MSZ-	HJ25/35	5/50VA	HJ60/ 71VA
MUZ -EF	MXZ -2D/F	MXZ -3E/F	MXZ -4E/F	MXZ -5E	MXZ -6D	MXZ -2D	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	MUZ -SF	MXZ -2D	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	MUZ -GF	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	MUZ -WN	MUZ -DM	MXZ -2DM	MXZ -3DM	MUZ -HJ	MXZ -2DM	MXZ -3DM	MUZ -HJ
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•	•	•	72/83VA	•		•	•	72/83VA	•		•	•	•	72/83VA	•		•	•	72/83VA	•		•	•	•	•	•	•	•	•
			83	•	•			83	•	•				83	•	•			83	•	•								
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		•	72				•	72					•	72				•	72						•			•	
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•	●*1	●*1	●*1	• *1	•*1	• *1	• *1	• *1	●*1	●*1	•	●*1	●*1	●*1	• *1	• *1	•	• *1	• *1	• *1	●*1								
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	2E		83	•	•	2E		83	•	•		2E		83	•	•			83	•	•								
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•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt				
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt								
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt								
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt								
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt								
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt				
	* 2	• *2	• *2	●*2	●*2	• *2		* 2	* 2	• *2	• *2	• *2		• *2	• *2	• *2	• *2			• *2	• *2		• *2	• *2					
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•	•	•	•	•		•	•	•	•		•	•	•	•	•		•	•	•	•			•	•		•	•	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
 															. 1	The figu	roo lioto	d in the	table are	"only u	ubon oor	nbined w	ith on o	utdooru	mit with	the enn	roprioto	oonooitu	rongo"

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

FUNCTION LIST (1)

Cat	tegory	Icon								M SERIE	s				
			tion	Indoor unit		MFZ	Z-KJ25/	35/50VE	 2			MLZ-ŀ	KP25/35	5/50VF	
			Combination	Outdoor unit	MUFZ -KJ	MXZ -2D	MXZ -3E	MXZ -4E	MXZ -5E	MXZ -6D	MXZ -2D/F	MXZ -3E/F	MXZ -4E/F	MXZ -5E	MXZ -6D
Tec	hnology	DC Inverter			•	•	•	•	•	•	•	•	•	•	•
		Joint Lap DC Mo	otor		•	•	•	72/83VA			•	•	72/83VA	•	
		Reluctance DC Ro	otary C	ompressor				83	•	•			83	•	•
		Heating Caulking	g (Cor	npressor)	•	•	•	72/83VA	•		•	•	72/83VA	•	
		DC Fan Motor			•	•	•	•	•	•	•	•	•	•	•
		PAM (Pulse Amp	olitude	Modulation)	•	•	•	•	•	•	•	•	•	•	•
		Power Receiver ar	nd Twi	n LEV Control			•	72				•	72		
		Grooved Piping			•	•	•	•	•	•	•	•	•	•	•
	i-see Sensor	Felt Temperature Co	ontrol (3D i-see Sensor)											
		AREA Temperatu	ure M	onitor											
	Energy	Econo Cool Ener			•	•	•	•	•	•	•	•	•	•	•
	Saving	Standby Power (•										
	Air Quality	Plasma Quad Pl													
	,	Plasma Quad													
		Dual Barrier Coa	ating												
		Silver-ionized Air		ier Filter	•	•	•	•	•	•	Opt	Opt	Opt	Opt	Opt
		Air Purifying Filte		ioi i iitoi							Орі	Орі	Opt	Opt	Орі
	Air	Double Vane	01												
	Distribution	Horizontal Vane			•	•	•	•	•	•	•	•	•	•	•
											•	•	•	•	•
		Vertical Vane High Ceiling Mod	40												
		-									•	•	•	•	•
	Convenience	Auto Fan Speed			•	•	•	•	•	•	•	•	•	•	•
	Convenience	On/off Operation	1 Time	r	•	•	•	•	•	•	•	•	•	•	•
		"i save" Mode			•	•	•	•		•					
suc		Auto Changeove	er		•*1	• *1	●*1	●*1	• *1	●*1	●*1	•*1	•*1	• *1	●*1
Functions		Auto Restart			•	•	•	•		•	•	•	•	•	•
Œ		Low-temperature	e Coo	ling	•	•	•	•	•	•	•	•	•	•	•
		10°C Heating													
		Low-noise Opera	ation (Outdoor Unit)		•	•	•	•	•	•	•	•	•	•
		Night Mode													
		Ampere Limit Ad	djustm	ent		2E		83	•	•	2E		83	•	•
		Operation Lock ((Indoo	or)											
		Operation Lock ((Outd	oor)		•	•	•	•	•	•	•	•	•	•
		Built-in Weekly T	Timer	Function	•										
	System Control	PAR-33MAA Cor	ntrol *	3	Opt	Opt	Opt	Opt	Opt						
		PAC-YT52CRA	Contro	ol *3	Opt	Opt	Opt	Opt	Opt						
		Centralised On/O	Off Co	introl *3	Opt	Opt	Opt	Opt	Opt						
		System Group C	Contro	I *3	Opt	Opt	Opt	Opt	Opt						
		M-NET Connecti	ion *3		Opt	Opt	Opt	Opt	Opt						
		Wi-Fi Interface			Opt	Opt	Opt	Opt	Opt						
		MXZ Connection	า			• *2	• *2	• *2	• *2	●*2					
	Installation	Cleaning-free Pi	pe Re	euse	•	•	•	•	•	•	•	•	•	•	•
		Wiring/Piping Co	orrecti	on Function		•	•	•	•	•	•	•	•	•	•
		Drain Pump									•	•	•	•	•
		Flare Connection	n		•	•	•	•	•	•	•	•	•	•	•
	Maintenance	Self-Diagnosis Function	ion (Che	eck Code Display)	•	•	•	•	•	•	•	•	•	•	•
	1	Failure Recall Fu			•	•	•	•	•	•	•	•			•

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

*2 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on page 101-102 for details.

*3 Please refer to "System Control" on pages 171-172 for details.

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

FUNCTION LIST (2)

ategory	Icon								5	SERIE	S												P SE	RIES								
		ation	Indoor unit		SLZ-I	M15/2	25/35/	50/601	FA *7		SE	Z-M2	5/35/5	50/60/	71DA	(L)	PLA	A-ZM3	5/50/6	60/71/	100/12	25/140)EA		PL	A-RP	35/50/	60/71/	100/1	25/14	0EA	
		Combination	Outdoor unit	SUZ -KA	PUHZ -ZRP			MXZ -4E/F		MXZ -6D			MXZ -3E/F			MXZ -6D	PUHZ -SHW		PUHZ -ZRP	MXZ -3E/F	MXZ -4E/F			PUHZ -SHW	PUZ -ZM			PUHZ -P	MXZ -3E/F		MXZ -5E/F	
chnology	DC Inverter			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Т
	Joint Lap DC Mo	tor		•		•	•	72/83VA	•		•	•	•	72/83VA	•			35-71	35-71	•	72/83VA	•			35-71	35-71	•	100	•	72/83VA		t
	Magnetic Flux Vec	tor S	Sine Wave Drive		•												•	•	•					•	•	•		•				Ť
	Reluctance DC Ro	tary	Compressor	•				83	•	•	•			83	•	•		35-71	35-71		83	•	•		35-71	35-71	•	•		83	•	Ť
	Highly Efficient DC	Scr	oll Compressor		•												•	100-140	100-250					•	100-140	100-250)	200-250				Ť
	Heating Caulking	g (C	ompressor)	•			•	72/83VA	•		•	•	•	72/83VA	•			35-71	35-71	•	72/83VA	•			35-71	35-71	•	100	•	72/83VA		+
	DC Fan Motor			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Ť
	Vector-Wave Eco	o Inv	verter		•												•	•	•					•	•	•		•				1
	PAM (Pulse Amp	olituo	de Modulation)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	35-140		•	•	•	•	•	•	35-140		100-40V		•	•	1
	Power Receiver an	nd Tv	win LEV Control		•		•	72					•	72			•			•	72			•	•	35-140		100-40	•	72		+
	Grooved Piping			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	+
i-see Sensor	Felt Temperature Co	ontrol	(3D i-see Sensor)	Opt	Opt	Opt	Opt	Opt	Opt	Opt							Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	AREA Temperatu			Opt	Opt	Opt	Opt	Opt	Opt	Opt							Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	7
	Demand Function			- Pr	- 50		Jpt	JP.	JP.								Opt	Opt	Opt	-6,	- 50		- 61	Opt	Opt	Opt	- Pr	Opt	- 51	- 51	Jpt	
	Pure White			•	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	_
	Auto Vane			•	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Air Quality	Fresh-air Intake			•	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-
	High-efficiency F	ilter		Ť													Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	_
	Oil Mist Filter																Орг	Орг	Орг	Орг	Орг	Орг	Орг	Орг	Орг	Орг	Орг	Орг	Орг	Орг	Орг	-
	Long-life Filter			•	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-
	Filter Check Sign	nal		•	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-
Air	Horizontal Vane	iai		•	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-
Distribution	Vertical Vane																															_
	High Ceiling Mod	de		•	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-
	Low Ceiling Mod																•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-
	Auto Fan Speed	_	de	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-
Convenience	On/off Operation			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	_
	Auto Changeove	_	101	•	•	• *1	• 1	9 *1	• *1	• *1	•	• *1	• *1	• *1	• *1	• *1	•	•	•	• *1	• *1	• *1	• *1	•	•	•	•	•	• *1	• *1	• *1	_
	Auto Restart	,1		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	_
	Low-temperature	. Co	olina	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	
	Low-noise Opera		-				•	•	•			•	•				_		•	•	-	•			•	•						_
	Ampere Limit Ad				60-140V	٥٦	_		•	•				•	•	•	•	00 1401/	60-140V		00	•	•	440/440		60-140V	i	•	•	00	•	-
	Operation Lock	jusii	ment		00-1407	2E		83				2E		83	•	•	112/140	60-140V	200/250	•	83	•	•	112/140	60-140V	200/250	-			83		_
	Rotation, Back-up and 2	and Ci	tone Cut in Functions			•	•	•	•	•		•	•	•	•	•	•				•	•		•		•		•	•	•	•	-
	Dual Set Point *6		lage Cut-III Functions		•													•	•					•	•							_
			+0		•													•	•						•	•		•				-
Control	PAR-33MAA Cor			Opt	Opt	Opt	Opt		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt		Opt	Opt	Opt	Opt	-
	PAC-YT52CRA			Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	Centraliesd On/C			Opt	Opt	Opt		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	-
	System Group C			Opt	Opt	Opt	Opt		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	•	•	•	Opt	Opt	Opt	Opt	•	•	•	Opt	•	Opt	Opt	Opt	-
	M-NET Connecti	on *	3	Opt	74	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	COMPO *4				71-140												•	71-140	71-250	-				•	71-140	71-250		•	-	-		
	MXZ Connection							• *2				• *2		• *2					-	_	• *2		_						• *2		-	2
	Cleaning-free Pip			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	_
	Reuse of Existing	_	-														Opt	Opt	Opt					Opt	Opt	Opt		Opt				
	Wiring/Piping Co	rrec	tion Function			•	•	•	•	•		•	•	•	•	•				•	•	•	•				<u> </u>		•	•	•	_
	Drain Pump			•	•	•	•	•	•	•	Opt	Opt	Opt	Opt	Opt	Opt	•	•		•	•	•	•	•	•	•	•	•	•	•	•	
	Pump Down Swi																•	•	•					•	•	•	<u> </u>	•				_
1	Flare Connection	1		•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1
	Self-Diagnosis Function										•	•	•		•																	

¹¹ When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible.
12 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on page 101-102 for details.
13 Please refer to "System Control" on pages 171-172 for details.

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

^{*4} Please refer to page 163 for details.

*5 PEAD-RP JALQ are not equipped with a drain pump.

*6 This function is only available with PAR-33MAA, PAC-YT52CRA.

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

FUNCTION LIST (2)

tegory	Icon											P se	ERIES									
	3	lation	Indoor unit			PEAD	D-M35/50/	/60/71/100	0/125/140	JA(L)			PE RP200 Wh	0/250	М	PKA- 35/50HA(L)	Р	KA-M60/	71/100KA	(L)	
	C side	Combination	Outdoor unit	PUHZ -SHW	PUZ -ZM	PUHZ -ZRP	PUHZ -P	SUZ -KA	MXZ -3E/F	MXZ -4E/F	MXZ -5E/F	MXZ -6D	PUHZ -ZRP	PUHZ -P	PUZ -ZM	PUHZ -ZRP	PUHZ -P	PUHZ -SHW	PUZ -ZM	PUHZ -ZRP	PUHZ -P	T
hnology	DC Inverter			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Т
	Joint Lap DC Moto	or			35-71	35-71	100	•	•	72/83VA	•				35-71	35-71	100		60/71	60/71	100	t
	Magnetic Flux Vector	or Si	ne Wave Drive	•	•	•	•						•	•	•	•	•	•	•	•	•	T
	Reluctance DC Rota	ary (Compressor		35-71	35-71	100-140	•		83	•	•			35-71	35-71			60/71	60/71	100-140	
	Highly Efficient DC	Scro	II Compressor	•	100-140	100-250	200/250						•	•	100-200	100-200	200	•	100-250	100-250	200/250	,
	Heating Caulking	(Co	mpressor)		35-71	35-71	100	•	•	72/83VA	•				35-71	35-71			60/71	60/71	100	T
	DC Fan Motor			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Ť
	Vector-Wave Eco	Inv	erter	•	•	•	•						•	•	•	•	•	•	•	•	•	Ť
	PAM (Pulse Ampli	itud	e Modulation)	•	•	35-140	100-140V	•	•	•	•	•			35-140	35-140	100V-140V	•	•	60-140	100-140V	v
	Power Receiver and	d Tw	in LEV Control	•	•	35-140			•	72					35-140	35-140	100-140	•	•	60-140	100-140	
	Grooved Piping			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Ť
i-see Sensor	Felt Temperature Con	ntrol (3D i-see Sensor)																			t
	AREA Temperatur	re N	lonitor																			Ť
Energy Saving	Demand Function	1		Opt	Opt	Opt	Opt						Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	t
Attractive	Pure White														•	•	•	•	•	•	•	t
	Auto Vane														•	•	•	•	•	•	•	Ť
Air Quality	Fresh-air Intake																					Ť
	High-efficiency Fil	ter																				t
	Oil Mist Filter																					Ť
	Long-life Filter			•	•	•	•	•	•	•	•	•										t
	Filter Check Signa	al		•	•	•	•	•	•	•	•	•			Opt	Opt	Opt	Opt	Opt	Opt	Opt	1
Air	Horizontal Vane														•	•		•	•	•	•	t
Distribution	Vertical Vane																					1
	High Ceiling Mode	Э																				t
	Low Ceiling Mode																					1
	Auto Fan Speed N	Nod	e	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	t
Convenience	On/off Operation	Time	er	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	†
	Auto Changeover			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1
	Auto Restart			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	t
	Low-temperature	Coc	ling	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1
	Low-noise Operati	ion	(Outdoor Unit)	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	1
	Ampere Limit Adju	ustn	nent	112/140	60-140V	60-140V 200/250				83	•	•	•		60-140V	60-140V 200/250		112/140	60-140V	60-140V 200/250		Ī
	Operation Lock					200/230										200/230				200/230		1
	Rotation, Back-up and 2	nd St	age Cut-in Functions	•	•	•	•								•	•	•	•	•	•	•	t
	Dual Set Point *6				•	•	•						•	•	•	•	•		•	•	•	t
	PAR-33MAA Cont	trol	3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	†
Control	PAC-YT52CRA Co	ontr	ol *3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	1
	Centraliesd On/Of	ff C	ontrol *3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt			Opt	Opt	Opt	Opt	Opt	Opt	Opt	1
	System Group Co	ntro	ol *3	•	•	•	•	Opt	Opt	Opt	Opt	Opt	•	•	Opt	Opt	Opt	Opt	Opt	Opt	Opt	1
	M-NET Connectio	n *3	3	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	1
	COMPO *4			•	71-140	71-250	•								71-140	71-250	•	•	71-140	71-250	•	†
	MXZ Connection								• *2	* 2	* 2	• *2										†
Installation	Cleaning-free Pipe	e R	euse	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	†
	Reuse of Existing			Opt	Opt	Opt	Opt								Opt	Opt	Opt	Opt	Opt	Opt	Opt	†
	Wiring/Piping Cor								•	•	•	•								·		†
	Drain Pump			• *5	• *5	• *5	• *5	• *5	• *5	•*5	• *5	•*5			Opt	Opt	Opt	Opt	Opt	Opt	Opt	†
	Pump Down Switc	ch		•	•	•	•						•	•	•	•	•	•	•	•	•	†
1	Flare Connection	_		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	†
Į.																						4
Maintenance	Self-Diagnosis Function	ı (Ch	eck Code Display)	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	- [

^{*1} When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible.
*2 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on page 101-102 for details.
*3 Please refer to "System Control" on pages 171-172 for details.

^{*4} Please refer to page 163 for details.
*5 PEAD-M JAL are not equipped with a drain pump.
*6 This function is only available with PAR-33MAA, PAC-YT52CRA.

					P SERIES					
		PCA-M3	5/50/60/7	71/100/12	5/140KA			PCA- RP71 HAQ		RP71/ 5/140KA
PUZ -ZM	PUHZ -ZRP	PUHZ -P	SUZ -KA	MXZ -3E/F	MXZ -4E/F	MXZ -5E/F	MXZ -6D	PUHZ -ZRP	PUHZ -ZRP	PUHZ -P
•	•	•	•	•	•	•	•	•	•	•
35-71	35-71	100	•	•	•	•	•	71	71	100
•	•	•						•	•	•
35-71	35-71	100-140	•		83	•	•	71	71	100-140
100-140	100-250	200/250						100-250	100-250	200/250
35-71	35-71	100	•	•	72			71	71	100
•	•	•	•	•	•	•	•	•	•	•
•	•	•						•	•	•
•	35-140	100-140V	•	•	•	•	•	71-140	71-140	100-140V
•	35-140	100-140		•	72	•	•	71-140	71-140	100-140
•	•	•	•	•	•	•	•	•	•	•
Opt	Opt	Opt						Opt	Opt	Opt
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Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt			
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•	•	•	•	• *1	• *1	• *1	• *1	•	•	•
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•	•	•	•	•	•	•	•	•	•	•
60-140V	60-140V							71-140V	71-140V	
00-140V	200/250			•	83	•	•	200/250	200/250	
•	•	•						•		
•	•	•								
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt		
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt		
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
•	•	•	Opt	•	•	•	•	•	Opt	Opt
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
71-140	71-250	•	·			·		71-250	71-250	•
				• *2	• *2	• *2	• *2			
•	•	•	•	•	•	•	•	•	•	•
Opt	Opt	Opt						Opt	Opt	Opt
				•	•	•	•			
Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt			
•	•	•						•	•	•
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
	• If a r	numerical f	igure is li	sted, the fe	eature is o	nly availal	ble with th	e outdoor	unit of tha	t capacity.

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

Major Optional Parts

Part Name	Description	Part Name	Description
Deodorising Filter Captures small foul-smelling substances in the air.	Deodorising filter	Drain Pump Pumps drain water to a point higher than that where the unit is installed.	*for ceiling-suspended units
Air-cleaning Filter Removes fine dust particles from the air by means of static electricity.	Air-cleaning filter	Decorative Cover To be attached to the upper section of ceiling- suspended models for professional kitchen use. Helps prevent dust accumulation.	Decorative 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-33MAA remote controller and PAC-YT52CRA, and to relay operation signals.	MA & contact terminal interface
Oil Mist Filter Element Filter element (12 pieces) that blocks the oil mist for ceiling-suspended models used in professional kitchens.	Filter frame Filter element	System Control Interface Interface to connect with M-NET controllers.	System control interface
High-efficiency Filter Element Element for high-efficiency filter. Removes fine dust particles from the air.	Plug (for directing airflow) High-efficiency fitter element *For 4-way cassette units (PLA)	Wi-Fi Interface Interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.	WiFi interface
3D i-see Sensor Corner Panel for SLZ Corner panel holding the 3D i-see Sensor.	i-see Sensor corner panel	Connector Cable This product is an adaptor which inputs the incoming signals from an open/close switch to the air conditioner and outputs the on/off signals from the air conditioner to the back-up heater.	Switch Indoor unit
3D i-see Sensor Corner Panel for PLA Corner panel holding the 3D i-see Sensor.	I-see Sensor corner parel	Power Supply Terminal Kit Terminal bed to change the power supply from outdoor power supply to separate indoor/ outdoor power supplies.	
Shutter Plate Plate for blocking an air outlet of the 4-way cassette (PLA) indoor unit.	Shutter Plate	Wired Remote Controller Advanced deluxe remote controller with full-dot liquid-crystal display and backlight. Equipped with convenient functions like night-setback.	
Multi-functional Casement Casement for fresh-air intake and attaching the high-efficiency filter element (optional).	Indoor unit body Multi-functional casement	Simple Wired Remote Controller Remote controller with liquid-crystal display, and backlight function for operation in dark location.	\(\frac{1}{2}\)
Fresh-air Intake Duct Flange Flange attachment for adding a duct to take in fresh air from outside.	*For 4-way cassette units (PLA)	Remote Controller Terminal Block Kit for PKA The terminal block is used as a relay to wire an indoor unit and to two remote controllers or to wire a remote controller and multiple indoor units in order to perform group control.	
Space Panel Decorative cover for the installation when the ceiling height is low.	Space Panel	Wireless Remote Controller Signal Sender Handheld unit for sending operation signals to the indoor unit.	Handheld unit

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

Dord Money	Description
Part Name	Description
Air Protection Guide Protects the outdoor unit from the wind.	
Drain Socket A set of caps to cover unnecessary holes at the bottom of the outdoor unit, and a socket to guide drain water to the local drain pipe.	Cap
Centralised Drain Pan Catches drain water generated by the outdoor unit.	Outdoor unit Centralised drain pan Base (local construction)
M-NET Converter Used to connect P Series A-control models to M-NET controllers.	Group remote controller M-NET Converter Power rappit unit for transmit catel
Control/Service Tool Monitoring tool to display operation and self- diagnosis data.	Control/service tool
Step Interface Interface for adjusting the capacity of inverter- equipped outdoor units.	Case interior Installed in case
High-static Fan Motor Static pressure enhanced up to +30pa.	

Optional Parts List <Indoor>

		Option				Fi	lter						MA &				Wired	l Remote Co	ontroller
					ilver-ion Purifier			Deodo Fil	orising ter	Air Purifying Filter	Softdry cloth	System Control Interface	Contact Terminal Interface	Wi-Fi Interface		nector ible	Cor	ntroller	Controller Holder
Indoor	Unit		MAC- 2360 FT	MAC- 2370 FT	MAC- 2380 FT	MAC- 2390 FT	MAC- 172 FT-E	MAC- 3000 FT-E	MAC- 3010 FT-E	MAC- 3005 CF-E	MAC- 1001 CL-E	MAC- 333IF-E	MAC- 397IF-E	MAC- 567IF-E	MAC- 1702RA-E	MAC- 1710RA-E	PAR- 33MAA	PAC- YT52CRA	MAC- 1200RC
Wall	II -	MSZ-LN18VG(W)(V)(R)(B)				•			•		•	•	•		•	•	● *1	●"1	
mou	unted	MSZ-LN25VG(W)(V)(R)(B)				•			•		•	•	•		•	•	1 1	6 *1	
		MSZ-LN35VG(W)(V)(R)(B)														•	1 1	1	
		MSZ-LN50VG(W)(V)(R)(B)				•			•		•	•	•		•	•	6 *1	●"1	
		MSZ-LN60VG(W)(V)(R)(B)				•			•		•	•	•		•	•	● *1	●"1	
		MSZ-AP15VF										•	•	•			1 1	● *1	
		MSZ-AP20VF										•	•	•			1 1	●*1	
		MSZ-AP25VG		•								•	•	•			1 1	●*1	
		MSZ-AP35VG		•								•	•	•			1 1	1	
		MSZ-AP42VG		•								•	•	•			1 1	● *1	
		MSZ-AP50VG		•								•	•	•			1 1	● *1	
		MSZ-FH25VE2											•				1 1	0 *1	
		MSZ-FH35VE2			•								•				1	● *1	
		MSZ-FH50VE2			•								•	•			1 1	●"1	
		MSZ-EF18VE3(W)(B)(S)											•	•			1 1	0 *1	
		MSZ-EF22VE3(W)(B)(S)		•									•	•			1 1	●"1	
		MSZ-EF25VE3(W)(B)(S)		•									•	•			1 1	●"1	
		MSZ-EF35VE3(W)(B)(S)															1 1	1	
		MSZ-EF42VE3(W)(B)(S)		•									•				1 1	●*1	
S		MSZ-EF50VE3(W)(B)(S)		•							•	•	•	•			● *1	●*1	
<u></u>		MSZ-SF15VA											•	•			1	• *1	
点		MSZ-SF20VA										•	•	•			● *1	● *1	
M SERIES		MSZ-SF25VE3		•								•	•	•			● *1	● *1	
_		MSZ-SF35VE3															1 1	1	
		MSZ-SF42VE3		•									•	•			1 1	● *1	
		MSZ-SF50VE3		•								•	•	•			● *1	● *1	
		MSZ-GF60VE2															1 1	1	
		MSZ-GF71VE2											•	•			1 1	● "1	
		MSZ-WN25VA		•								•	•	•	•	•	•	•	
		MSZ-WN35VA		•									•	•		•		•	
		MSZ-DM25VA		•								•	•	•	•	•	● *1	● *1	
		MSZ-DM35VA		•								•	•	•	•	•	● *1	● *1	
		MSZ-HJ25VA																	•
		MSZ-HJ35VA		•	_	_									•	•			•
		MSZ-HJ50VA		•											•	•			•
		MSZ-HJ60VA		•											•	•			•
		MSZ-HJ71VA		•	-										•	•			•
Floo		MFZ-KJ25VE2		•								•	•	•	•	•	●*1	●*1	
stan	nding	MFZ-KJ35VE2		•								•	•	•	•	•	1	1	
		MFZ-KJ50VE2		•	-	-						•	•	•	•	•	●*1	●*1	
1-wa		MLZ-KP25VF		•								•	•	•	•	•	●*1	●*1	
cass	sette	MLZ-KP35VF		•								•	•	•	•	0	1	1	
		MLZ-KP50VF		•								•	•			•	1 1	● *1	

^{*1} MAC-333IF-E or MAC-397IF-E is required.

Optional Parts List <Indoor>

	Option	Oil Mist	Ι.			Filter					3D i Ser	sor	Shutter	Multi- functional	Fres	h-air Duct	Space			Drain I	Dumn			Deco	rative	System Control	
		Filter Element			ficiency Element			Filte	r Box		Cor Pa		Plate	Casement	Fla		Panel			Jrain i	Pump				ver	Interface	
Indoor Unit		PAC- SG38 KF-E	PAC- SH59 KF-E	PAC- SH88 KF-E	PAC- SH89 KF-E	PAC- SH90 KF-E	PAC- KE92 TB-E	PAC- KE93 TB-E		PAC- KE95 TB-E	PAC- SF1 ME-E	PAC- SE1 ME-E	PAC- SJ37 SP-E	PAC- SJ41 TM-E	PAC- SH65 OF-E	PAC- SF28 OF-E	PAC- SJ65 AS-E		PAC- SH75 DM-E	PAC- SJ92 DM-E	PAC- SJ93 DM-E	PAC- SJ94 DM-E	PAC- KE07 DM-E	PAC- SF81 KC-E	SF82	MAC- 333IF-E	
4-way	SLZ-M15FA										•															•	
cassette	SLZ-M25FA										•															•	
	SLZ-M35FA										•																
S	SLZ-M50FA										•															•	_
S Ceiling -	SLZ-M60FA										•												_			•	
	SEZ-M25DA(L)																						•			•	
conceald	SEZ-M35DA(L)																						•			•	_
	SEZ-M50DA(L)																						•				_
	SEZ-M60DA(L)																						•			•	-
4	SEZ-M71DA(L)			_	_	-						-		-			-	\vdash			<u> </u>	-	•		-	0 11	\vdash
4-way Cassette	PLA-ZM35EA		•									•	•	•	•		•									●*1	-
Casselle	PLA-ZM50EA		•									•	•	•	•		•									●*1 ●*1	-
	PLA-ZM60EA		_		-							•	•	•	•		_			-	<u> </u>	-	-			_	\vdash
	PLA-ZM71EA PLA-ZM100EA		•									0	•	•	•		•									●*1 ●*1	-
	PLA-ZM100EA PLA-ZM125EA		•									•	•		•		•									01	-
	PLA-ZM125EA PLA-ZM140EA		•	_	_							•	•	•	•		•			_	\vdash	-		-	 	01	\vdash
	PLA-RP35EA											•			•		•									01	\vdash
	PLA-RP35EA PLA-RP50EA		•									•	•	•	•		•									01	\vdash
	PLA-RP60EA		•	_	_							•	•	•	•		•			_	\vdash	-		-	 	011	\vdash
	PLA-RP71EA											•			•		•									0*1	
	PLA-RP100EA		•									•	•	•	•		•									01	-
	PLA-RP125EA		•									•	•	•	•		•									•	\vdash
	PLA-RP140EA		•									•	•		•		•									•	
Ceiling -	PEAD-M35JA(L)						•																			011	
conceald	PEAD-M50JA(L)						•																			011	
	PEAD-M60JA(L)						-																			0*1	
	PEAD-M71JA(L)							•																		011	1
ត្ត	PEAD-M100JA(L)								•																	0 *1	
ĕ	PEAD-M125JA(L)								•																	0 *1	
OEMIES OEMIES	PEAD-M140JA(L)									•																● *1	Т
-	PEA-RP200WKA																									● *1	T
	PEA-RP250WKA																									• *1	
Wall -	PKA-M35HA(L)																		•							● *1	Т
mounted	PKA-M50HA(L)																		•							● *1	Т
	PKA-M60KA(L)																	•								● *1	Г
	PKA-M71KA(L)																	•								● *1	Г
	PKA-M100KA(L)																	•								● *1	Г
Ceiling -	PCA-M35KA																									● *1	
suspended	PCA-M50KA			•																•						● *1	
	PCA-M60KA				•																	•				● *1	
	PCA-M71KA				•																•					● *1	
	PCA-M100KA					•															•						
	PCA-M125KA					•															•						
	PCA-M140KA																				•						
	PCA-RP71HAQ	•														•								•			\Box
Floor -	PSA-RP71KA																										
standing	PSA-RP100KA																										
	PSA-RP125KA																										
	PSA-RP140KA																										

^{*1} P Series indoor units can be used in combination with SUZ or MXZ outdoor units. *2 Unable to use with wireless remote controller. *3 Two interface components required for each indoor unit. *4 Refrigerant address must be set to 00. *5 PAC-SH29TC-E is required. *6 Group control cannot be used.

	1						Wirod E	Pomoto (Controller	Ι	Wirole	oc Po	moto C	ontrollo	r		1		
	MA & Contact	145 F:	_		0	i	vviieu r	nemote (Ferminal Signal Signal Kit							Remote	Remote	Connector Cable for
	Terminal Interface	Wi-Fi Interface			Supp nal Ki		Contro	oller	Block kit for PKA			F	Signal Receive	r	Kit (Sender & Receiver)	Remote Sensor	On/Off Adapter	Operation Adapter	Remote Display
	MAC- 397IF-E	MAC- 567IF-E	PAC- SG94	PAC- SG96	PAC- SG97	PAC- SJ39	PAR- 33MAA	PAC- YT52CRA	PAC- SH29TC-E	PAR- SL97	PAR- SL100	PAR- SA9C	PAR- SF9	PAR- SE9	PAR- SL94	PAC- SE41	PAC- SE55	PAC- SF40	PAC- SA88
			HR-E	HR-E	HR-E	HR-E				A-E	A-E	A-E	FA	FA-E	B-E	TS-E	RA-E	RM-E	HA-E
	•	•					•	•		•	●*6		•			•	•	• *2	•
	•	•					•	•		•	●.6		•			•	•	•*2	•
	•	•					•	•		•	●.e		•			•	•	•*2	•
	•	•					•	•		•	●.e		•			•	0	•*2 •*2	•
	•						VAQ	VAQ		•	•	•	•			•	•	•2	
	•						VAQ	VAQ		•		•				•	•	-2	•
	•	•					VAQ	VAQ		•		•				•	•	•*2	
	•	•					VAQ	VAQ		•		•				•	•	*2	•
	•	•					VAQ	VAQ		•		•				•	•	• *2	•
	© 11	•				•	•	•		•	●*6			•		•	•	• *2	•
	0 "1					•	•	•		•	●.e			•		0	•	• *2	•
	• "1	•				•	•	•		•	●*6			•		•	•	• *2	•
	0 *1					•	•	•		•	●.e			•		•	•	● *2	•
	1 1					•				•	●,6							* 2	
	1					•	•			•	●*6			•				* 2	
	●*1						•	•		•	●*6					•		● *2	•
	● *1					•				•	●*6							•*2	
	● *1					•	•			•	●*6			•				* 2	
	●*1	•				•	•	•		•	●,6			•		•	•	• *2	•
	1 1					•		•		•	●*6							• *2	
	● *1	•				•	•	•		•	●,6			•		•	•	0 *2	•
	•	•				•	•	•			●.e			•		•	•	•*2	•
	•	•				•	•	•		•	●*6					•	•	•*2 •*2	•
	●*1 ●*1	•			•		•	•		0	_	•				•	•	• 2	•
	011				•					•								*2	
	011	•			•		•	•		•						•	•	*2	•
	0 11				•		•	•		•		•				•	•	• 2	
	0"1						•	•		•		•				•	•	•*2	
	0"1	•			0		•	•		•						•	•	•*2	•
	0 "1	•			_		•	•		_		_				•	•	0 *2	•
	1						•	•								•	•	•*2	
	1	•	•				*5	* 5	•	•						•	•		•
	● *1		•				* 5	●*5	•	•						•	•		•
	0 *1						*5	* 5	•	•									
	● *1	•					* 5	•*5	•	•						•	•		
	● *1	•					*5	●*5	•	•						•	•		
	• 11			•				•		•					•	•		* 2	•
	●*1	•		•			•	•		•					•	•	•	* 2	•
	1 1	•		•			•	0		•					•	•	•	•*2	•
	• *1	•		•			•	•		•					•	•	•	*2	•
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				•												•	•	•*2	
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Optional Parts List <Outdoor>

			Г	Dictrit	ition Di-	_				Joint	Dina				Licuid	Refrigera	nt Druor	_									
1		Option	<u> </u>	Distribu	ition Pip		11.2	11. %			Pipe				Liquid	nerrigera	iit Dryer	-									
1			-	or	For	For Quad-	Unit	Unit	Unit ø15.88	Unit ø9.52	Unit ø6.35	Unit ø9.52		Unit ø12.7	For	For	For										
1				vin	Triple	ruple	>	>	>	9.52	>	>	>	>	pipe		pipe				Air C	Outlet G	iuide				
1				:50)	(33:33:	(25:25:	Pipe	Pipe	Pipe	Pipe	Pipe	Pipe	Pipe	Pipe	ø6.35	ø9.52	ø12.7										l
1			· ·		33)	25:25)	ø9.52	ø12.7	ø19.05			ø12.7															
							PAC-	PAC-	PAC-			Flare			PAC-	PAC-	PAC-	MAC-	MAC-	MAC-	MAC-	MAC-	MAC-	PAC-	PAC-	PAC-	1
1_	1.1		MSDD-	MSDD-	MSDT-	MSDF-	SG72	SG73	SG75	PAC-	PAC-	MAC-	MAC-	MAC-	SG81	SG82	SG85	889	881	882	856	886	883	SJ07	SG59	SH96	l
Ot	utdoor Unit		50TR-E	50WR-E	1111H-E	11111H-E			RJ-E	SG76 RJ-E	493 PI	A454 JP-E	JP-E	A456 JP-E	DR-E			SG	SG	SG	SG	SG-E			SG-E		
	L Series	MUZ-LN25VG	-							NJ-E	FI	JP-E	JP-E	JP-E				•	•								
	L Genes	MUZ-LN25VGHZ																•	•								-
		MUZ-LN35VG																•	•								
		MUZ-LN35VGHZ																•	•								
		MUZ-LN50VG																_		•							
		MUZ-LN50VGHZ																				•					
		MUZ-LN60VG																				•					
	A Series	MUZ-AP25VG																									
		MUZ-AP25VGH																									
		MUZ-AP35VG																									
		MUZ-AP35VGH																									
		MUZ-AP42VG																									
		MUZ-AP42VGH																									
		MUZ-AP50VG																									
		MUZ-AP50VGH																									
	F Series	MUZ-FH25VE																•	•								
		MUZ-FH25VEHZ																•	•								
		MUZ-FH35VE																									
		MUZ-FH35VEHZ																	•								
		MUZ-FH50VE																				•					
		MUZ-FH50VEHZ																									
	E Series	MUZ-EF25VE																•	•								
		MUZ-EF25VEH																•	•								
		MUZ-EF35VE																	•								
SERIES		MUZ-EF35VEH	<u> </u>															•	•		-		_	_			_
H		MUZ-EF42VE																•	•								
	0.0	MUZ-EF50VE																•	•			•					
≥	S Series	MUZ-SF25VE MUZ-SF25VEH	 	-														•	•								
		MUZ-SF35VE																	•								-
		MUZ-SF35VEH																•	•								
		MUZ-SF42VE										\vdash						•	•								
		MUZ-SF42VEH																									
		MUZ-SF50VE																				•					
		MUZ-SF50VEH																									
	G Series	MUZ-GF60VE																				•					
		MUZ-GF71VE																				•					
	W Series	MUZ-WN25VA																					•				
		MUZ-WN35VA																									
	D Series	MUZ-DM25VA																					•				
		MUZ-DM35VA																					•				
	H Series	MUZ-HJ25VA																									
		MUZ-HJ35VA																					•				
		MUZ-HJ50VA																•	•								
		MUZ-HJ60VA																				•					
		MUZ-HJ71VA																				•					
	Compact	MUFZ-KJ25VE																•	•								
	floor	MUFZ-KJ25VEHZ																•	•								_
		MUFZ-KJ35VE	<u> </u>									\vdash			_	-		•	•		_	-	_				
		MUFZ-KJ35VEHZ MUFZ-KJ50VE																•	•								
																						•					
		MUFZ-KJ50VEHZ SUZ-KA25VA6	 	 			—	•				\vdash				-		•	•		-	-					\vdash
S	SERIES	SUZ-KA35VA6						•										•	•								
		SUZ-KA50VA6						-										-				•					
		SUZ-KA60VA6										\vdash										•					
		SUZ-KA71VA6																				•					

Air Pro	tection	Guide	Dra	ain Soci	ket	р	Freeze- reventio Heater Drain P	n	Centra	lized Dra	ain Pan	M-NET Adapter	M-N Conv	IET erter	Control/ Service Tool	Step Interface 1 PC board w/attach- ment kit	Insul fo Accur	ation or nlator	High Static Fan Motor
PAC- SJ06 AG-E	PAC- SH63 AG-E	PAC- SH95 AG-E	PAC- SJ08 DS-E	PAC- SG60 DS-E	PAC- SG61 DS-E	MAC- 643 BH-E	MAC- 644 BH-E	PAC- 645 BH-E	PAC- SG63 DP-E	PAC- SG64 DP-E	PAC- SH97 DP-E	PAC- IF01 MNT-E	PAC- 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
						•													
						•													
							•												

Optional Parts List <Outdoor>

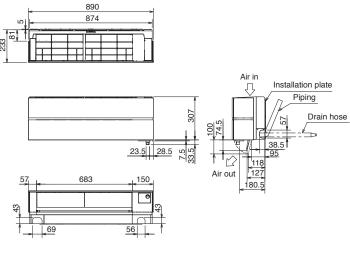
		Ontion		D	istribut	ion Pir	oe .		Bra	nch Pi	oe/Hea	der (J	oint)					Joint	Pipe					Liquid F	Refrigera	nt Dryer				Г
`		Option						For		ase		. ,5,	-/	İ				Unit	Unit	Unit	Unit	Unit	Unit				1			
				or Twi			Triple	Quad- ruple	of u	sing	Branch	Hea	ader		ø6.35 ⊳		ø9.52 ->	ø15.88 >	ø9.52 >	ø6.35 >	ø9.52	ø12.7 >	ø12.7 >	For pipe	For pipe	For pipe	Air C	outlet 0	Guide	
				(50:50))	(33:3	33:33)	(25:25: 25:25)		anch xes	Pipe				ø9.52		ø12.7	Pipe	Pipe	Pipe	Pipe	Pipe	Pipe		ø9.52					
			-							Brazing	CNAV	CMY-	CNAV	DAG	DAG	DAG	DAG	Ø19.05	88.כו ש	ø9.52	Ø12.7 Flare	ws.52	88.010	DAG	DAG	DAG	MAG	MAC-	MAG	
١	المناسب المساسة		MSDD-		MSDD- 50WR-E				MSDD-		Y62-	Y64-	Y68-		SG87		SG88	SG75		PAC-	MAC-	MAC-		PAC- SG81	PAC- SG82	SG85	889	881	882	
Ou	tdoor Unit		30 TH-L	JUTHZ-E	JUWINE	IIIn-L	IIInz-L	IIIIIn-L	50AR-E	50BR-E	G-E	G-E	G-E	RJ-E	RJ-E	RJ-E	RJ-E	RJ-E	SG76 RJ-E	493 PI	JP-E	A455 JP-E	JP-E	DR-E	DR-E	DR-E	SG	SG	SG	
	Power Inverter	PUZ-ZM35VKA												•	•									•						
	(R32)	PUZ-ZM50VKA PUZ-ZM60VHA												•	•									•	•					
		PUZ-ZM71VHA		•													•								•					
		PUZ-ZM100VKA		•													•								•					
		PUZ-ZM100YKA PUZ-ZM125VKA		0				•									0								•					
		PUZ-ZM125YKA		•				•									•								•					
		PUZ-ZM140VKA		•			•	•									0								•					
	Power	PUZ-ZM140YKA PUHZ-ZRP35VKA2		•			•	•						•			_							•	•					
	Inverter	PUHZ-ZRP50VKA2												•																
	(R410A)	PUHZ-ZRP60VHA2														•		•							•					<u> </u>
		PUHZ-ZRP71VHA2 PUHZ-ZRP100VKA3	•			•										•		•							•					\vdash
		PUHZ-ZRP100YKA3	•			•										•		•							•					
		PUHZ-ZRP125VKA3 PUHZ-ZRP125YKA3	•			•		•								•		0							0					
S		PUHZ-ZRP140VKA3	•			•		•								•		•							•					
SERIES		PUHZ-ZRP140YKA3	•			•		•								•		•							•					
P SI		PUHZ-ZRP200YKA3 PUHZ-ZRP250YKA3			•	•		•																	•	•				
_	Standard	PUHZ-P100VKA	•																						•					
	Inverter (R410A)	PUHZ-P125VKA																							•					
	(N410A)	PUHZ-P140VKA PUHZ-P100YKA	•			•			-																•					\vdash
		PUHZ-P125YKA	•																						•					
		PUHZ-P140YKA	•			•																			•					
		PUHZ-P200YKA3 PUHZ-P250YKA3			•	•		•																	•	•				
MX	Z SERIES	MXZ-2F33VF																									•	•		
(R3	32)	MXZ-2F42VF MXZ-2F53VF(H)																			•						0	0		
		MXZ-3F54VF																			•									
		MXZ-3F68VF																	•	•	•									
N/N	/7 055150	MXZ-4F72VF MXZ-2D33VA																										•		<u> </u>
	(Z SERIES 10A)	MXZ-2D33VA MXZ-2D42VA2																									•	•		
		MXZ-2D53VA(H)2																			•						•	•		
		MXZ-2E53VAHZ MXZ-3E54VA	_																		•									
		MXZ-3E68VA																	•		•									
		MXZ-4E72VA																	•	•	•	•	•							
		MXZ-4E83VA MXZ-4E83VAHZ																	•	•	•	0	•							
		MXZ-5E102VA																	•	•	•	•	•							
		MXZ-6D122VA2																	•	•	•	•	•							
		MXZ-2DM40VA MXZ-3DM50VA																			•						•			\vdash
	MY Series	PUMY-SP112VKM(-BS)									•	0	•																	
(R4	110A)	PUMY-SP112YKM(-BS) PUMY-SP125VKM(-BS)									•	•	•																	\vdash
		PUMY-SP125YKM(-BS)									•	•	•																	
		PUMY-SP140VKM(-BS)									•	•	•																	
		PUMY-SP140YKM(-BS) PUMY-P112VKM4(-BS)							•	•	•	•	•			•		•												
		PUMY-P112YKM(E)4(-BS)							•	•	•	•	•			•														
		PUMY-P125VKM4(-BS)							•	•	•	•	•			•		•												
		PUMY-P125YKM(E)4(-BS) PUMY-P140VKM4(-BS)							0	0	0	0	0			0		0												\vdash
		PUMY-P140YKM(E)4(-BS)							•	•	•	•	•			•		•												
		PUMY-P200YKM2(-BS) PUHZ-SHW112VHA							•	•	•	•	•			•		•												
	WERFUL ATING	PUHZ-SHW112VHA PUHZ-SHW112YHA	•																						•					
. 12		PUHZ-SHW140YHA	•																						•					

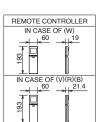
	Branch Box	Reactor Box		Diff	erent Diameter	loint			Different Diar	meter Joint For E	Brazing Model	
	Outer Cover	neactor box	ø9.52>ø12.7	ø12.7>ø9.52	ø12.7>ø15.88	ø6.35>ø9.52	ø9.52>ø15.88	ø9.52>ø12.7	ø12.7>ø9.52	ø12.7>ø15.88	ø6.35>ø9.52	ø9.52>ø15.88
	PAC- AK350CVR-E	PAC- RB01BC	MAC- A454JP	MAC- A455JP	MAC- A456JP	PAC- 493PI	PAC- SG76RJ-E	PAC- SG78RJB-E	PAC- SG79RJB-E	PAC- SG80RJB-E	PAC- SG77RJB-E	PAC- SG76RJB-E
PAC-MK33BC (Flare)	•	•	•	•	•	•	•					
PAC-MK53BC (Flare)	•	•	•	•	•	•	•					
PAC-MK33BCB (Brazing)	•	•						•	•	•	•	•
PAC-MK53BCB (Brazing)	•	•						•	•	•	•	•

		A	Air Outl	et Gui	de		Air Pro	otection	n Guide	Dra	ain Soc	ket			e-preve (for Dra					entralize Irain Pa		M-NET Adapter	M-N Conv		Control/ Service Tool	1 PC w/at	ep rface board tach- nt kit	l fo	lation or mlator	Con- nection Kit	High Static Fan Motor
	856	MAC- 886 SG-E	883	SJ07 SG-E	PAC- SG59 SG-E	PAC- SH96 SG	SJ06 AG-E	SH63	PAC- SH95 AG-E	SJ08 DS-E	PAC- SG60 DS-E	SG61	643	644	645	646	SJ10	SJ20	SG63 DP-E	PAC- SG64 DP-E	SH97	PAC- IF01 MNT-E	SJ96 MA-E	PAC- SJ95 MA-E		PAC- IF012 B-E	IF013	MAC- 892 INS-E	MAC- 893 INS-E	PAC- LV11 M-J	PAC- SJ71 FM-E
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\exists						•			•												•			•	•						•
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\Box						•			•												•			•	•						•
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\exists				•			•			•									•				•		•	•	•				
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_						•			•			•									•			•	•	•	•				•
\dashv						•			0			•									•			•	•	•	•				•
\Box						•															•			•	•	•	•				
\dashv						•			0			•									•			•	•	•	•				
						•			•			•									•			•	•						
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\dashv						•			•			•									•			•	•						
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$$\begin{split} & \mathsf{MSZ}\text{-}\mathsf{LN25VG}(\mathsf{W})(\mathsf{V})(\mathsf{R})(\mathsf{B}) \quad \mathsf{MSZ}\text{-}\mathsf{LN35VG}(\mathsf{W})(\mathsf{V})(\mathsf{R})(\mathsf{B}) \\ & \mathsf{MSZ}\text{-}\mathsf{LN50VG}(\mathsf{W})(\mathsf{V})(\mathsf{R})(\mathsf{B}) \quad \mathsf{MSZ}\text{-}\mathsf{LN60VG}(\mathsf{W})(\mathsf{V})(\mathsf{R})(\mathsf{B}) \end{split}$$

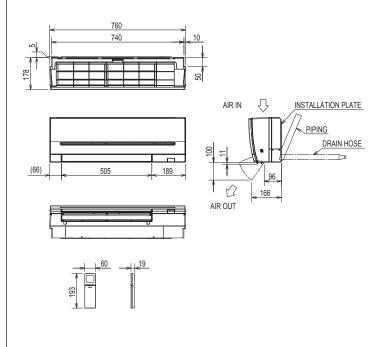
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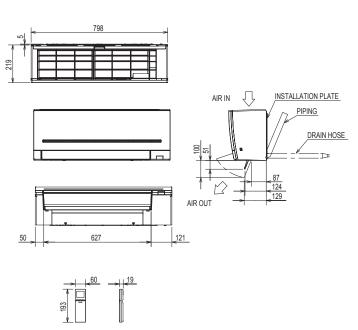
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INDOOR UNIT

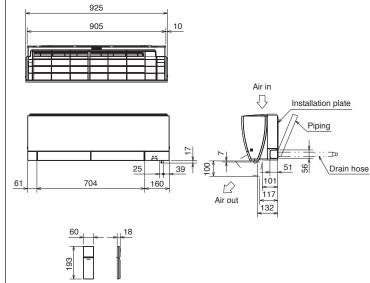


MSZ-AP25VG MSZ-AP35VG MSZ-AP42VG MSZ-AP50VG MSZ-AP25VGK MSZ-AP35VGK MSZ-AP42VGK MSZ-AP50VGK

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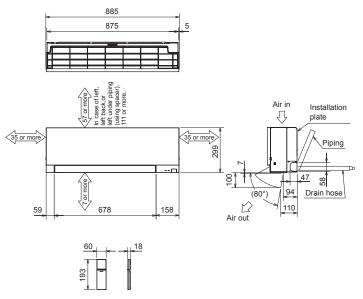


MSZ-FH25VE2 MSZ-FH35VE2 MSZ-FH50VE2



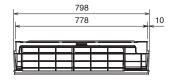
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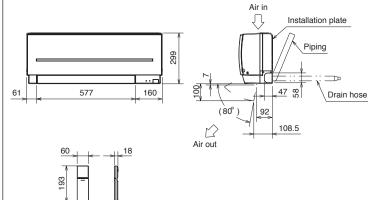
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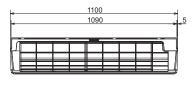
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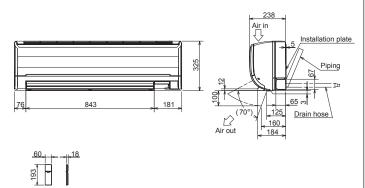




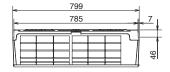
MSZ-GF60VE2 MSZ-GF71VE2

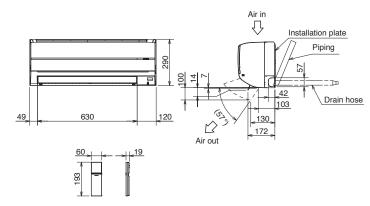
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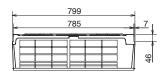
MSZ-WN25VA MSZ-WN35VA

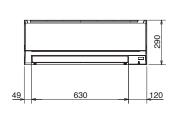


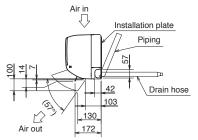


MSZ-DM25VA MSZ-DM35VA

INDOOR UNIT





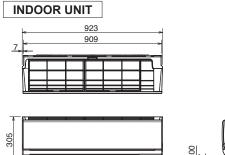




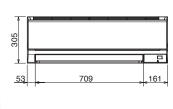
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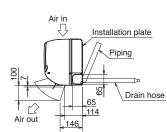
INDOOR UNIT 799 785 7 Air in Installation plate Piping Piping Air out Air out Air out Air out 130 Air out 172

MSZ-HJ60VA MSZ-HJ71VA





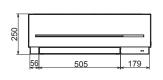


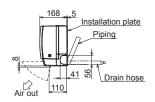


MSZ-SF15VA MSZ-SF20VA

INDOOR UNIT

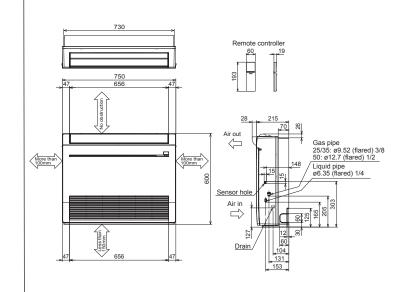








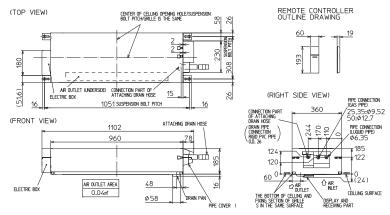
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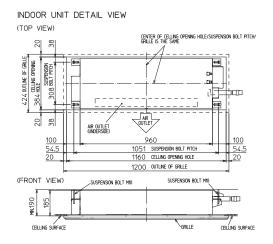


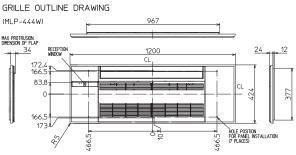
MLZ-KP25VF MLZ-KP35VF MLZ-KP50VF

INDOOR UNIT

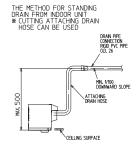
INDOOR UNIT OUTLINE DRAWING







		KP25/35VF	KP50VF
EXTENSION	LIQUID PIPE 0.D.	Ø6.	.35
PIPE	GAS PIPE O.D.	ø9.52	Ø12.7
CONNECTIONS	LIQUID PIPE	FLARED CO Ø6	
OF PIPE	GAS PIPE	FLARED CONNECTION Ø9.52	FLARED CONNECTION Ø12,7
DRAIN HOSE		HEAT INSULATER O.D. CONNECT Ø32 Ø25	
DRAIN PIPE CO	ONNECTION	RIGID PVC PIPE	O.D. 26



MUZ-LN25VG MUZ-LN25VGHZ MUZ-LN35VG MUZ-LN35VGHZ MUZ-FH35VE MUZ-FH25VE MUZ-FH25VEHZ MUZ-FH35VEHZ MUZ-EF25VEH MUZ-EF25VE MUZ-EF35VE MUZ-EF35VEH

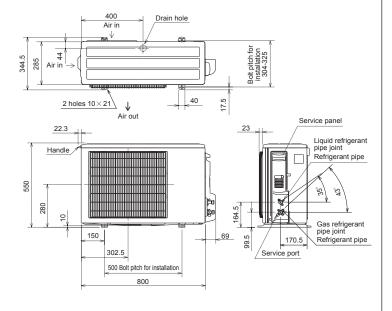
MUZ-EF42VE MUZ-SF25VE

MUZ-SF25VEH MUZ-SF35VE MUZ-SF35VEH MUZ-SF42VE MUZ-SF42VEH

MUZ-HJ50VA

MUFZ-KJ25VE MUFZ-KJ35VE MUFZ-KJ25VEHZ MUFZ-KJ35VEHZ

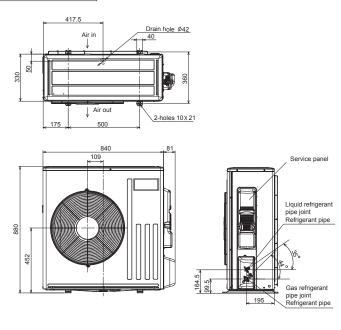
OUTDOOR UNIT



MUZ-LN50VGHZ MUZ-LN60VG **MUZ-FH50VE MUZ-FH50VEHZ**

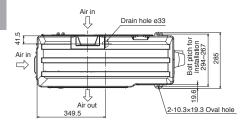
MUZ-EF50VE

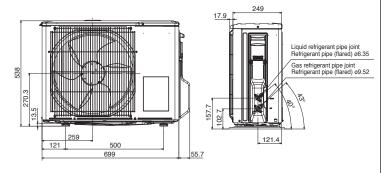
MUZ-SF50VE MUZ-SF50VEH MUZ-GF71VE MUZ-GF60VE MUZ-HJ60VA MUZ-HJ71VA MUFZ-KJ50VEHZ MUFZ-KJ50VE



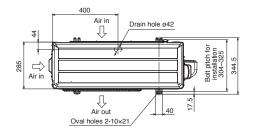
- Unit: mm

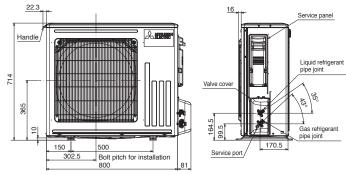
MUZ-WN25VA MUZ-WN35VA MUZ-DM25VA MUZ-DM35VA MUZ-HJ25VA MUZ-HJ35VA OUTDOOR UNIT





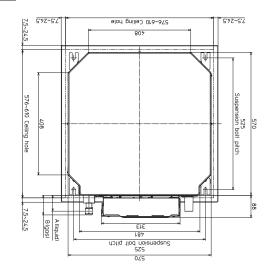
MUZ-LN50VG OUTDOOR UNIT





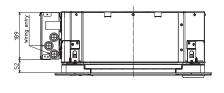
S SERIES

SLZ-M15FA SLZ-M25FA SLZ-M35FA SLZ-M50FA SLZ-M60FA

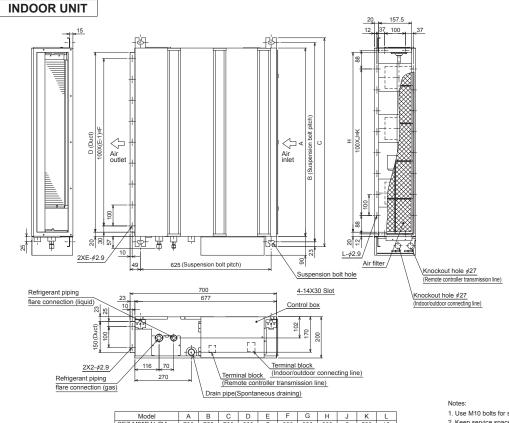


2	6 196	196	Drain pipe VP-25 connection Suspension bolt M10 or W3/8
133 69			188
50~92 Suspension bott lower edge	For remote controller terminal block	Terminal block	Ceiling & Q

Models	Refrigerent pipe (liquid)	② Refrigerent pipe (gas)	Α	В
SLZ-M15FA SLZ-M25FA SLZ-M35FA			63mm	72mm
SLZ-M50FA	φ6.35mm flared connection 1/4F		63mm	78mm
SLZ-M60FA	φ6.35mm flared connection 1/4F		63mm	78mm



SEZ-M25DA(L) SEZ-M35DA(L) SEZ-M50DA(L) SEZ-M60DA(L) SEZ-M71DA(L)

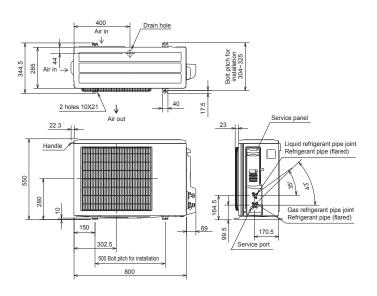


Model	Α	В	С	D	E	F	G	Н	J	K	L
SEZ-M25DAL/DA	700	752	798	660	7	600	800	660	5	500	16
SEZ-M35DAL/DA	900	952	998	860	9	800	1000	860	7	700	20
SEZ-M50DAL/DA	900	952	990	000	9	800	1000	000	l ′	700	20
SEZ-M60DAL/DA	1100	1152	4400	1060	11	4000	4000	1060		000	0.4
SEZ-M71DAL/DA	1100	1152	1198	1060	111	1000	1200	1060	9	900	24

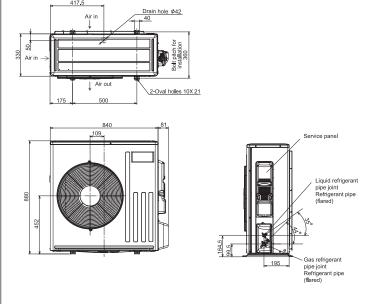
- 1. Use M10 bolts for suspension (purchase locally).
- Keep service space for maintenance at the bottom.
 This chart is based on the SEZ-M50DAL/DA, which has three fans.
- SEZ-M25, 35DAL/DA has two fans, and SEZ-M60, 71DAL/DA has four fans.

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

SUZ-KA25VA6 SUZ-KA35VA6 **OUTDOOR UNIT**

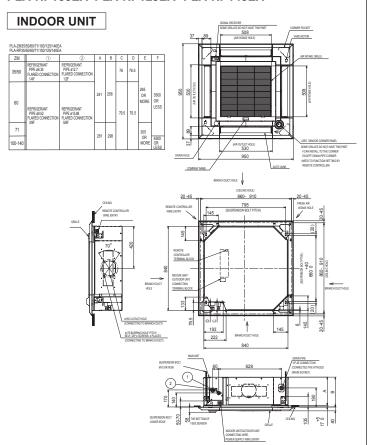


SUZ-KA50VA6 SUZ-KA60VA6 SUZ-KA71VA6 **OUTDOOR UNIT**

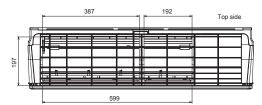


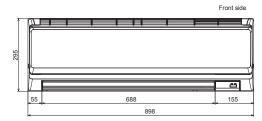
P SERIES Unit: mm

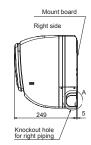
PLA-ZM35EA PLA-ZM50EA PLA-ZM60EA PLA-ZM71EA PLA-ZM100EA PLA-ZM125EA PLA-ZM140EA PLA-RP35EA PLA-RP50EA PLA-RP60EA PLA-RP71EA PLA-RP100EA PLA-RP125EA PLA-RP140EA



PKA-M35HA(L) PKA-M50HA(L) INDOOR UNIT

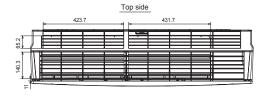


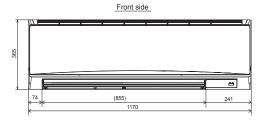


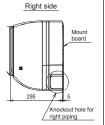


PKA-M60KA(L) PKA-M71KA(L) PKA-M100KA(L)

INDOOR UNIT

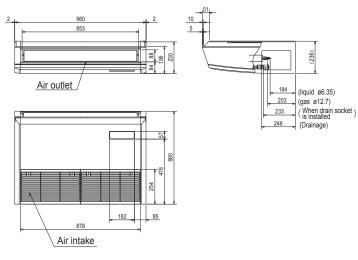






PCA-M35KA PCA-M50KA

INDOOR UNIT

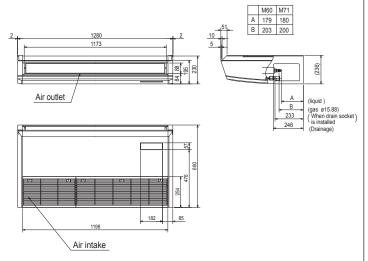


NOTES.

- 1.Use M10 or W3/8 screw for anchor bolt.
- 2.Please be sure when installing the drain pump (option parts), refrigerant pipe will be only upward.

PCA-M60KA PCA-M71KA

INDOOR UNIT



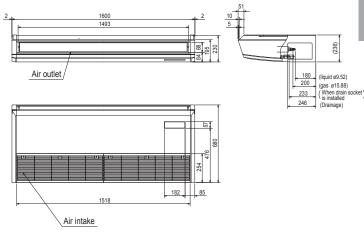
NOTES.

- 1.Use M10 or W3/8 screw for anchor bolt.
- 2.Please be sure when installing the drain pump (option parts), refrigerant pipe will be only upward.

Use the current nuts meeting the pipe size of the outdoor unit. Available pipe size

PCA-M100KA PCA-M125KA PCA-M140KA

INDOOR UNIT

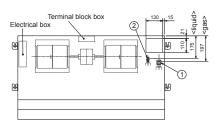


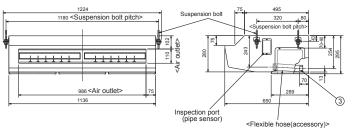
NOTES.

- 1.Use M10 or W3/8 screw for anchor bolt.
- 2. Please be sure when installing the drain pump (option parts), refrigerant pipe will be only upward.

PCA-RP71HAQ

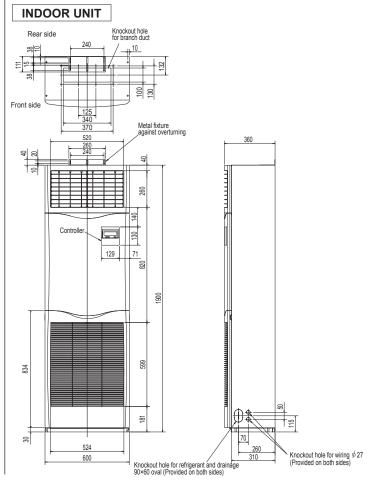
INDOOR UNIT



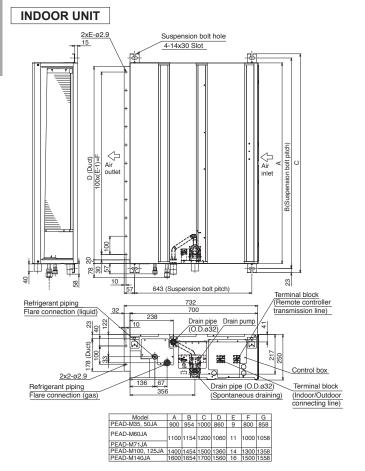


- ①Refrigerant pipe connection(gas pipe side/flared connection)
 ②Refrigerant pipe connection(liquid pipe side/flared connection)
 ③Flexible hose(accessory) —Drainage pipe connection

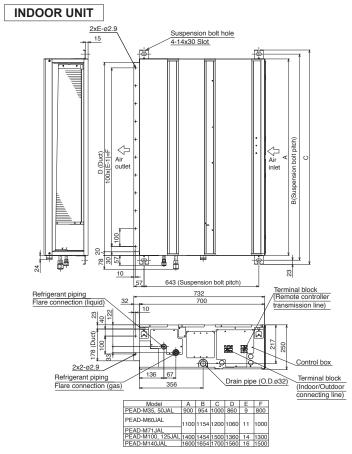
PSA-RP71KA PSA-RP100KA PSA-RP125KA PSA-RP140KA



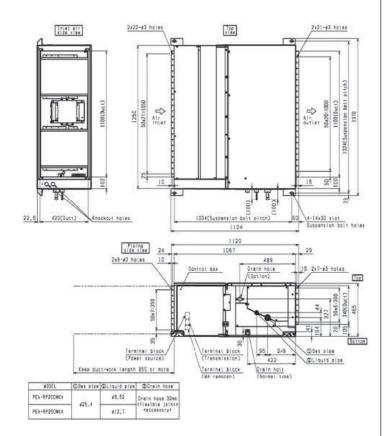
PEAD-M35JA PEAD-M50JA PEAD-M60JA PEAD-M71JA PEAD-M100JA PEAD-M125JA PEAD-M140JA



PEAD-M35JAL PEAD-M50JAL PEAD-M60JAL PEAD-M71JAL PEAD-M100JAL PEAD-M125JAL PEAD-M140JAL

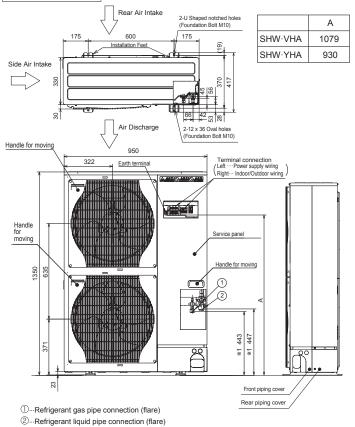


PEA-RP200WKA PEA-RP250WKA



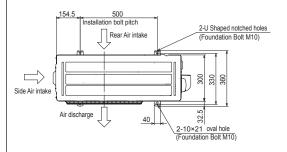
PUHZ-SHW112VHA PUHZ-SHW112YHA PUHZ-SHW140YHA

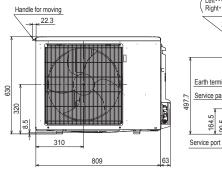
OUTDOOR UNIT

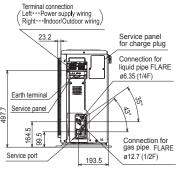


PUZ-ZM35VKA PUZ-ZM50VKA

OUTDOOR UNIT



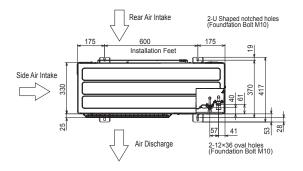


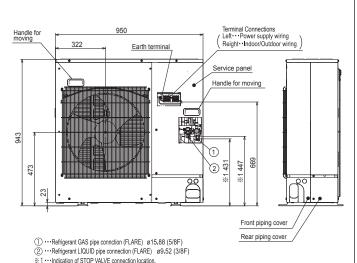


PUZ-ZM60VHA PUZ-ZM71VHA

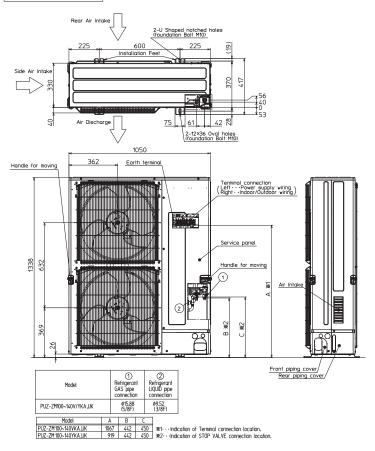
* ... Indicates stop valve connection location.

OUTDOOR UNIT



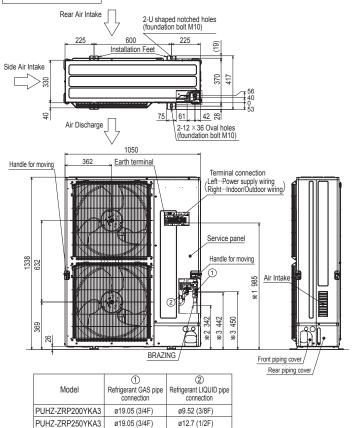


PUZ-ZM100VKA PUZ-ZM125VKA PUZ-ZM140VKA PUZ-ZM100YKA PUZ-ZM125YKA PUZ-ZM140YKA



PUHZ-ZRP200YKA3 PUHZ-ZRP250YKA3

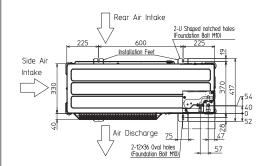
OUTDOOR UNIT

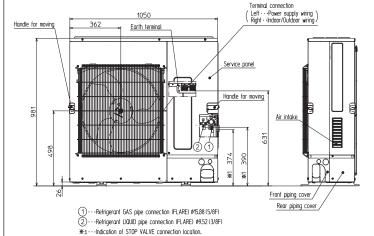


- *1···Indication of Terminal connection location.
 *2···Refrigerant GAS pipe connection (BRAZING) O.Dø25.4.
 *3···Indication of STOP VALVE connection location.

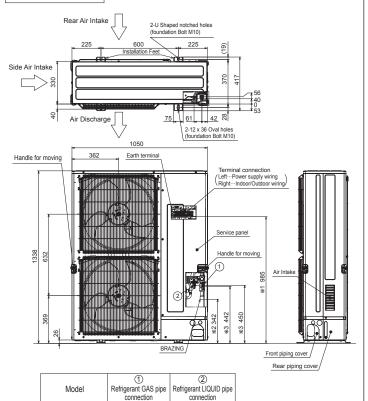
PUHZ-P100VKA PUHZ-P100YKA PUHZ-P125VKA PUHZ-P125YKA PUHZ-P140VKA PUHZ-P140YKA

OUTDOOR UNIT





PUHZ-P200YKA3 PUHZ-P250YKA3

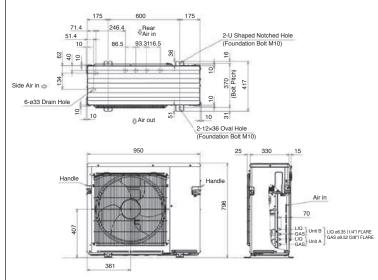


- PUHZ-P200YKA3 ø19.05 (3/4F) ø9.52 (3/8F) ø19.05 (3/4F) PUHZ-P250YKA3
- *1···Indication of Terminal connection location. *2···Refrigerant GAS pipe connection (BRAZING) O.Dø25.4. *3···Indication of STOP VALVE connection location.

MXZ-2D33VA MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2 MXZ-2DM40VA MXZ-2F33VF MXZ-2F42VF MXZ-2F53VF MXZ-2F53VFH OUTDOOR UNIT

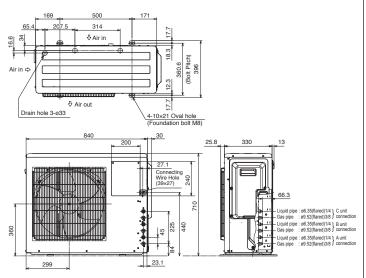
400 Drain hole e42 (In case of Base heater models e33) Air in C 22.3 Handle 22.1 Oval hole Handle Liquid pipe: e6.35 (fared) 1/4 | 8 unit Gas pipe: e9.52 (flared) 3/8 | 0 connection | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 170.4 | 17

MXZ-2E53VAHZ OUTDOOR UNIT

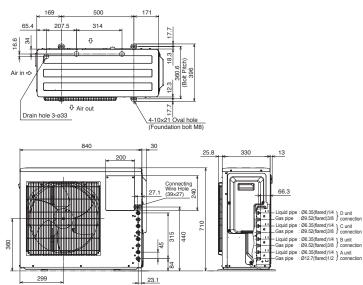


MXZ-3E54VA MXZ-3E68VA MXZ-3DM50VA MXZ-3F54VF MXZ-3F68VF

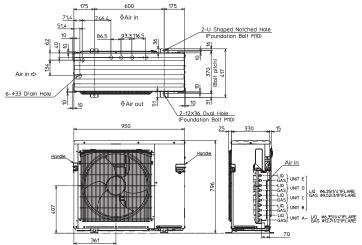
OUTDOOR UNIT



MXZ-4E72VA MXZ-4F72VF

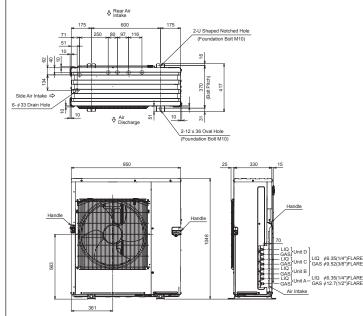


MXZ-4E83VA MXZ-5E102VA OUTDOOR UNIT

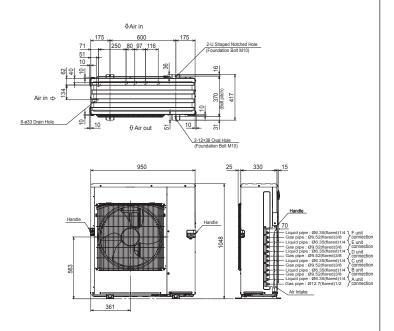


MXZ-4E83VAHZ

OUTDOOR UNIT

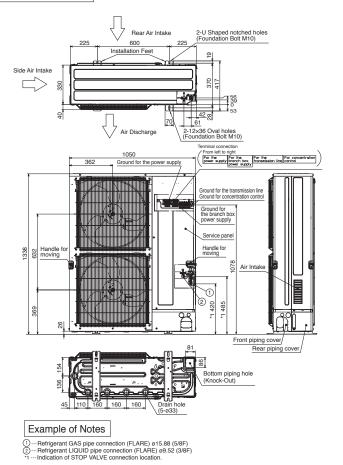


MXZ-6D122VA2



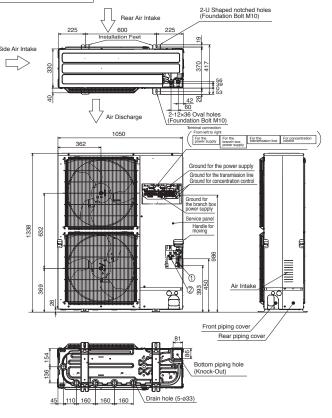
PUMY-P112/125/140VKM4(-BS)

OUTDOOR UNIT



PUMY-P200YKM2(-BS)

OUTDOOR UNIT

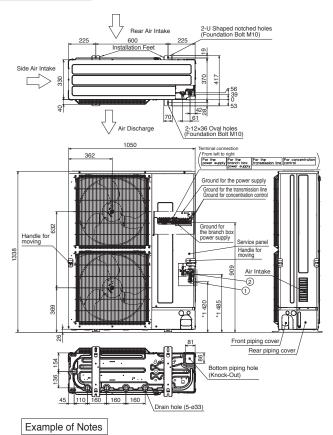


Example of Notes

-Refrigerant GAS pipe connection (FLARE) ø19.05 (3/4F)
 Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
 Indication of STOP VALVE connection location.

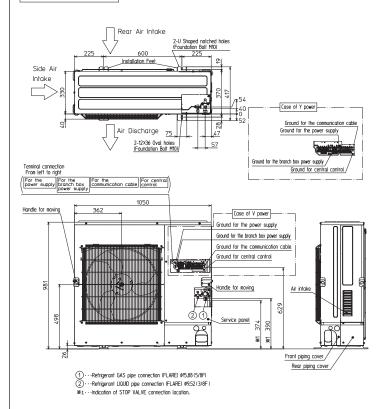
PUMY-P112/125/140YKM(E)4(-BS)

OUTDOOR UNIT



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

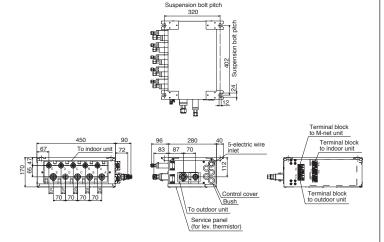
PUMY-SP112/125/140VKM(-BS) PUMY-SP112/125/140YKM(-BS)



PAC-MK53BC

Suspension bolt: W3/W8 (M10)

Branch box



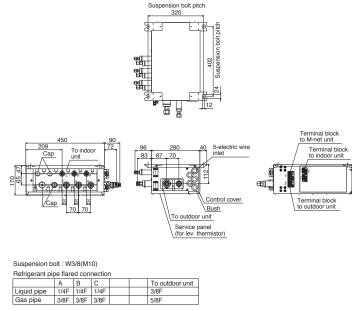
Suspension bolt : W3/8(M10) Refrigerant pipe flared connection

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

PAC-MK33BC

Suspension bolt: W3/W8 (M10)

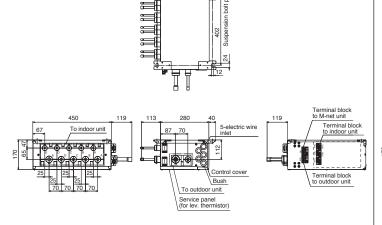
Branch box



PAC-MK53BCB

Suspension bolt: W3/W8 (M10)

Branch box



Suspension bolt pitch

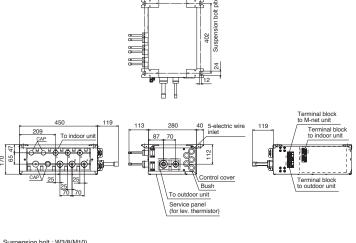
Suspension bolt : W3/8(M10)

	Α	В	С	D	Е	To outdoor unit
Liquid pipe	ø6.35	ø6.35	ø6.35	ø6.35	ø6.35	ø9.52
Gas pipe	ø9.52	ø9.52	ø9.52	ø9.52	ø12.7	ø15.88

PAC-MK33BCB

Suspension bolt: W3/W8 (M10)

Branch box



on holt : W3/8/M10)

Suspension boil . ws/o(wro)	
Refrigerant pipe brazed connection	

neingerant pipe brazed connection										
	Α	В	С			To outdoor unit				
Liquid pipe	ø6.35	ø6.35	ø6.35			ø9.52				
Gas pipe	ø9.52	ø9.52	ø9.52			ø15.88				

Piping Installation

M SERIES

Single type

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

S SERIES & P SERIES

Single type

Series	Class	Maximum Piping Length (m)	Maximum Height Difference (m)	Maximum Number of Bends
Series	<outdoor unit=""></outdoor>	Total length (A)	Outdoor unit - Indoor unit (H)	Total number
ZUBADAN (PUHZ-SHW)	80 / 112 / 140	75	30	15
Eco-conscious Power Inverter (PUZ-ZM)	35 / 50	50	30	15
	60 / 71	55	30	15
	100 / 125 / 140	100	30	15
Power Inverter (PUHZ-ZRP)	35 / 50 / 60 / 71	50	30	15
	100 / 125 / 140	75	30	15
	200 / 250	100	30	15
Standard Inverter (PUHZ-P & SUZ)	25 / 35	20	12	10
	50 / 60 / 71	30	30	10
	100 / 125 / 140	50	30	15
	200 / 250	70	30	15

Twin type

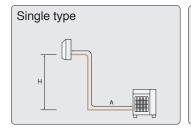
		Max	Maximum Piping Length (m)			Maximum Height Difference (m)		
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C	Pipe length difference from distribution pipe IB-CI	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number	
ZUBADAN (PUHZ-SHW)	80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

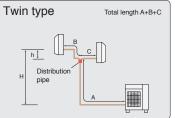
Triple type

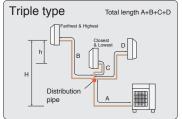
1 - 31 -								
		Maximum Piping Length (m)			Maximum Heigh	Maximum Number of Bends		
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C+D	Pipe length difference from distribution pipe IB-CI	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number	
Eco-conscious Power Inverter (PUZ-ZM)	140	100	8	20	30	1	15	
Power Inverter (PUHZ-ZRP)	140	75	8	20	30	1	15	
	200 / 250	100	8	30	30	1	15	
Standard Inverter (PUHZ-P)	140	50	8	20	30	1	15	
	200 / 250	70	8	28	30	1	15	

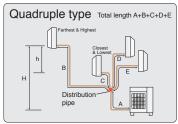
Quadruple type

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









MXZ SERIES

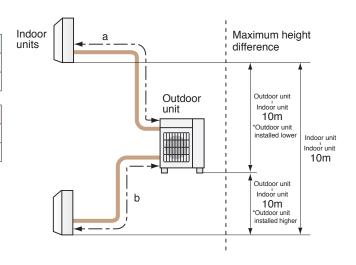
MXZ-2D33VA. MXZ-2F33VF

Maximum Piping Length					
Outdoor unit - Indoor unit (a,b) 15m					
Total length (a+b)	20m				

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b)	15
Total number (a+b)	20

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

Regarding MXZ-2D33, the second unit should be a different type in the case of selecting one MFZ-KJ.



MY7-2D42\/A2 MY7-2E42\/E

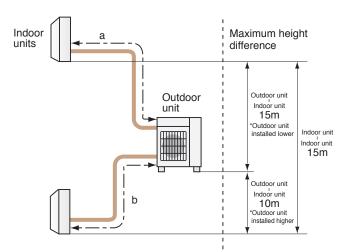
IVIAZ-ZD4ZVAZ, IVIAZ-ZF4ZVF	
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	20m
Total length (a+b)	30m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b)	20
Total number (a+b)	30

MXZ-2D53VA(H)2, MXZ-2E53VAHZ, MXZ-2F53VF(H)

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	20m
Total length (a+b)	30m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b)	20
Total number (a+b)	30



* When connecting MFZ-KJ Series indoor unit to MXZ-2D42VA2 or MXZ-2D53VA(H)2, additional refrigerant is required. For details, please contact Mitsubishi Electric.

MXZ-3E54VA, MXZ-3F54VF

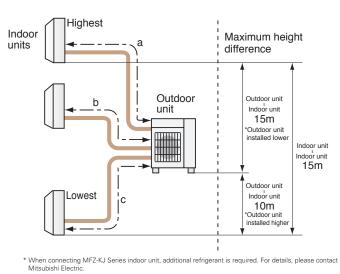
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c)	25m
Total length (a+b+c)	50m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c)	25
Total number (a+b+c)	50

MX7-3F68VA MX7-3F68VF

WAZ-SEGGVA, WAZ-SI GGVI	
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c)	25m
Total length (a+b+c)	60m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c)	25
Total number (a+b+c)	60



MXZ SERIES

MXZ-4E72VA, MXZ-4F72VF

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	25m
Total length (a+b+c+d)	60m

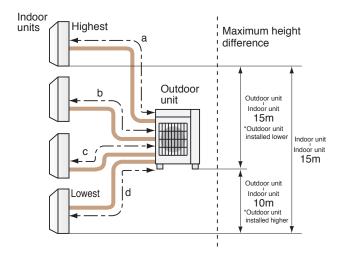
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	60

^{*} When connecting MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please contact Mitsubishi Electric.

MXZ-4E83VA, MXZ-4E83VAHZ

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	25m
Total length (a+b+c+d)	70m

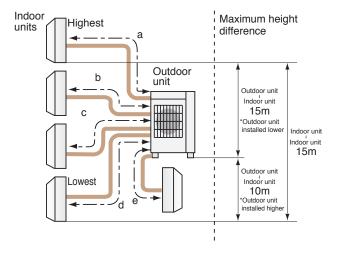
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	70



MXZ-5E102VA

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d,e)	25m
Total length (a+b+c+d+e)	80m

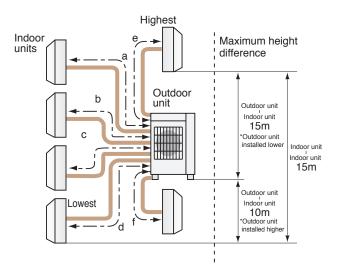
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d,e)	25
Total number (a+b+c+d+e)	80



MXZ-6D122VA2

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d,e,f)	25m
Total length (a+b+c+d+e+f)	80m

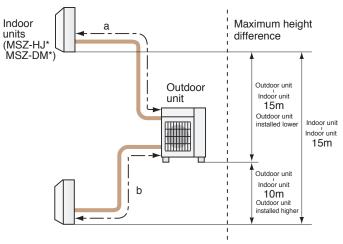
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d,e,f)	25
Total number (a+b+c+d+e+f)	80



MXZ-2DM40VA

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	20m
Total length (a+b)	30m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b)	20
Total number (a+b)	30

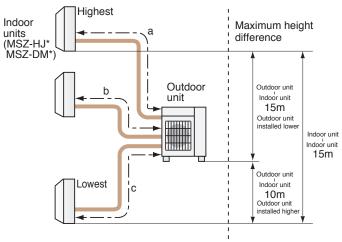


*Only MSZ-HJ and DM model is connectable.

MXZ-3DM50VA

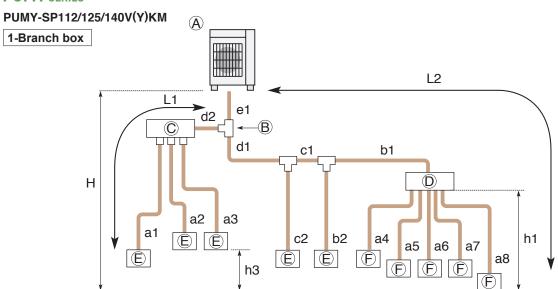
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c)	25m
Total length (a+b+c)	50m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c)	25
Total number (a+b+c)	50



*Only MSZ-HJ and DM model is connectable.

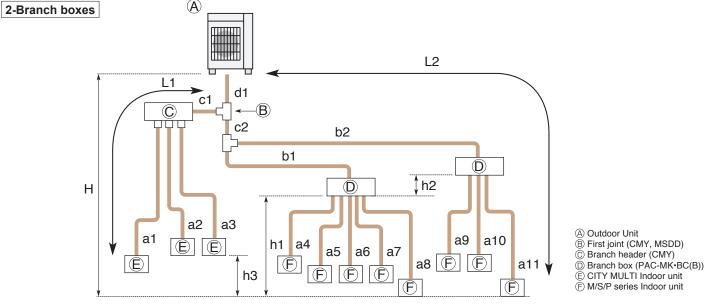
PUMY SERIES



- Outdoor Unit
 First joint (CMY, MSDD)
 Branch header (CMY)
- © 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 difference (One-way)	In indoor/outdoor section (H)*1	H ≤ 50 m (In case of outdoor unit is set higher than indoor unit)
		H ≦ 30 m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1 ≦ 15 m
	In each indoor unit (h3)	h3≦12 m
Number of bends		$ 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 $

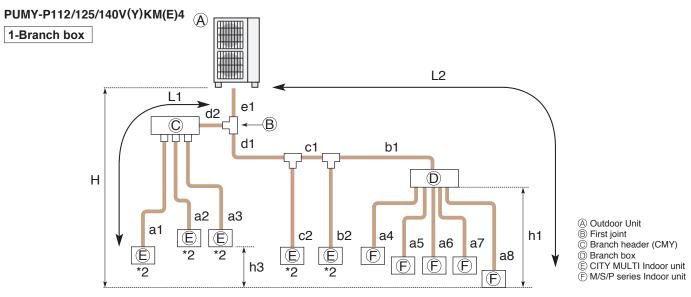
*1: Branch box should be placed within the level between the outdoor unit and indoor units.



- A Outdoor Unit

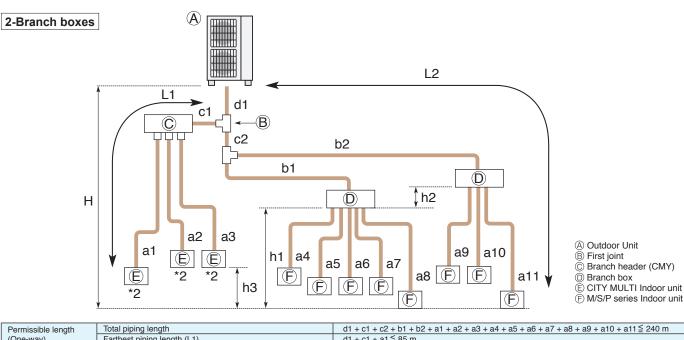
Permissible length	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 120 \text{ m}$
(One-way)	Farthest piping length (L1)	d1 + c1 + a1 ≦ 70 m
	Farthest piping length. Via Branch box (L2)	d1 + c2 + b2 + a11 ≦ 80 m
	Piping length between outdoor unit and branch boxes	$d1 + c2 + b1 + b2 \le 55 \text{ m}$
	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 industrial and a state of 11/44	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		d1 + c1 + a1 , $ d1 + c1 + a2 $, $ d1 + c1 + a3 $, $ d1 + c2 + b1 + a4 $, $ d1 + c2 + b1 + a5 $,
		d1 + c2 + b1 + a6 , $ d1 + c2 + b1 + a7 $, $ d1 + c2 + b1 + a8 $, $ d1 + c2 + b2 + a9 $,
		$ d1 + c2 + b2 + a10 $, $ d1 + c2 + b2 + a11 \le 15$

^{*1:} Branch box should be placed within the level between the outdoor unit and indoor units.



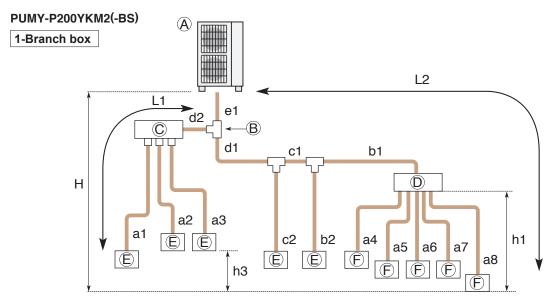
Permissible length	Total piping length	$e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \le 300 \text{ m}$
(One-way)	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2 ≦ 85 m
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8 ≦ 80 m
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1 ≦ 55 m
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2 ≦ 30 m
	Farthest piping length after branch box	a8 ≦ 25 m
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 95 m
Permissible height difference (One-way)	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
		H ≤ 40 m (In case of outdoor unit is set lower than indoor unit)
, , , , ,	In branch box/indoor unit section (h1)	h1≦15 m
	In each indoor unit (h3)	h3 ≦ 12 m
Number of bends		le1 + d2 + a1l, le1 + d2 + a2l, le1 + d2 + a3l, le1 + d1 + c2l, le1 + d1 + c1 + b2l,
		le1 + d1 + c1 + b1 + a4l, le1 + d1 + c1 + b1 + a5l, le1 + d1 + c1 + b1 + a6l,
		le1 + d1 + c1 + b1 + a7l, le1 + d1 + c1 + b1 + a8l ≦ 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.



Permissible length	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 240 \text{ m}$				
(One-way)	Farthest piping length (L1)	d1 + c1 + a1 ≦ 85 m				
	Farthest piping length. Via Branch box (L2)	d1 + c2 + b2 + a11 ≦ 80 m				
	Piping length between outdoor unit and branch boxes	d1 + c2 + b1 + b2 ≦ 55 m				
	Farthest piping length from the first joint	c2 + b2 or c1 + a1 ≦ 30 m				
	Farthest piping length after branch box	a11 ≦ 25 m				
	Farthest branch box from outdoor unit	d1 + c2 + b2 ≦ 55 m				
	Total piping length between branch boxes and indoor units	$a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 95 \text{ m}$				
Permissible height	In indeer/outdeer cention (LI)*4	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+a10 $, $ d1+c2+b2+a10 $, $ d1+c2+b2+a10 $, $ d1+c2+b2+a10 $, $ d1+c2+b2+a10 $, $ d1+c2+b2+a10 $, $ d1+d1+d2+d2+d3 $, $ d1+d1+d3 $, $ d1+d3 $,				

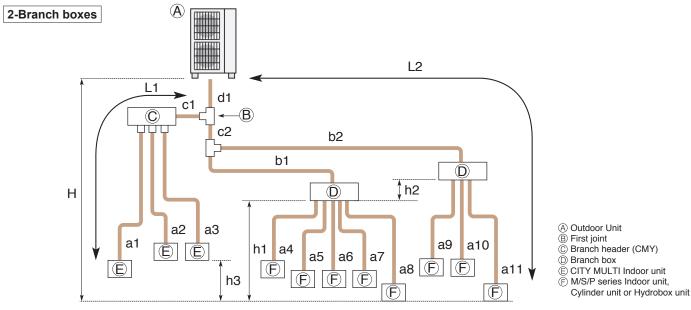
- *1: Branch box should be placed within the level between the outdoor unit and indoor units.
 *2: PKFY and PFFY Series cannot be connected.



- Outdoor Unit
 First joint
 Branch header (CMY)
- D Branch box
- © CITY MULTI Indoor unit
- F M/S/P series Indoor unit, Cylinder unit or Hydrobox unit

Permissible length	Total piping length	$e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \le 150 \text{ m}$		
(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 indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)		
difference (One-way)		H ≤ 40 m (In case of outdoor unit is set lower than indoor unit)		
	In branch box/indoor unit section (h1)	h1 ≦ 15 m		
	In each indoor unit (h3)	h3≦12 m		
Number of bends		le1 + d2 + a1l, le1 + d2 + a2l, le1 + d2 + a3l, le1 + d1 + c2l, le1 + d1 + c1 + b2l,		
		le1 + d1 + c1 + b1 + a4l, le1 + d1 + c1 + b1 + a5l, le1 + d1 + c1 + b1 + a6l,		
		$ e1 + d1 + c1 + b1 + a7 $, $ e1 + d1 + c1 + b1 + a8 \le 15$		

^{*1:} Branch box should be placed within the level between the outdoor unit and indoor units.



Permissible length	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 150 \text{ m}$
(One-way)	Farthest piping length (L1)	d1 + c1 + a1 ≦ 80 m
	Farthest piping length. Via Branch box (L2)	d1 + c2 + b2 + a11 ≦ 80 m
	Piping length between outdoor unit and branch boxes	d1 + c2 + b1 + b2 ≦ 55 m
	Farthest piping length from the first joint	c2 + b2 or c1 + a1 ≤ 30 m
	Farthest piping length after branch box	a11 ≦ 25 m
	Farthest branch box from outdoor unit	d1 + c2 + b2 ≦ 55 m
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 95 m
Permissible height	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
difference		H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)
(One-way)	In branch box/indoor unit section (h1)	h1 + h2 ≦ 15 m
	In each branch unit (h2)	h2 ≦ 15 m
	In each indoor unit (h3)	h3 ≦ 12 m
Number of bends		ld1 + c1 + a1l, ld1 + c1 + a2l, ld1 + c1 + a3l, ld1 + c2 + b1 + a4l, ld1 + c2 + b1 + a5l,
		d1 + c2 + b1 + a6 , $ d1 + c2 + b1 + a7 $, $ d1 + c2 + b1 + a8 $, $ d1 + c2 + b2 + a9 $,
		$ d1 + c2 + b2 + a10 $, $ d1 + c2 + b2 + a11 \le 15$

^{*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
Cooming	Outdoor	35°C DB, 24°C WB
Heating	Indoor	20°C DB
rieating	Outdoor	7°C DB, 6°C WB

Refrigerant piping length; 5m

The figures for total input are based on the following voltages.

Series	Indoor unit	Outdoor unit		
M Series S Series P Series (except for PEA) MXZ Series POWERFUL HEATING Series	-	VG,VE,VA,VHA,VKA:230V/Single phase/50Hz YA,YHA,YKA:400V/Three phase/50Hz		
PEA Series	400V/Three phase/50Hz	400V/Three phase/50Hz		

Sound pressure level

- The sound pressure measurement is conducted in an anechoic chamber.
- The actual sound level depends on the distance from the unit and the acoustic environment.

How to read a model name

1) M & S Series

M	M: M Series S: S Series				
S	"S"= Wall-mounted , "F"= Compact floor-standing , "E"= Compact ceiling-concealed ,				
	"L"= 4- or 1-way cassette , "U"= Outdoor unit				
Z	"Z"= Inverter heat pump , "H"= Fixed-speed heat pump , "blank"= Cooling only				
_					
F	Series				
Н	Generation				
25	Rated cooling capacity (kW base)				
V	230V / Single phase / 50Hz				
Е	"A"= R410A with new A control, "B"= R410A with conventional control,				
	"E"= R410A with new A control & ErP correspondance, "G"=R32 with new A control				
	"HZ"= Hyper Heating model , "H"= Anti-freeze heater equipped model ,				
HZ	"S"= Silver indoor unit , "W"= White/Natural White indoor unit , "B"= Black/Onyx Black indoor unit ,				
	"V"= Pearl White indoor unit , "R"= Ruby Red indoor unit				

2) P Series

Р	P Series
U	"K"= Wall-mounted , "S"= Floor-standing , "L"= 4-way cassette , "E"= Ceiling-concealed , "C"= Ceiling-suspended , "U"= Outdoor unit
Н	"H"= For heating and cooling
Z	"Z"= Inverter
_	

ZM/M/ZRP/RP/P	"ZM"= R32 Eco-conscious Power Inverter , "M"= R32 &R410A			
	"ZRP"/"RP"= R410A & cleaning-free pipe reuse , "P"=R410A			
SHW	"SH"= Powerful heating ZUBADAN , "W"= can be used as air to water application			
71	Rated cooling capacity (kW base)			
V	"V"= 230V / Single phase / 50Hz , "Y"= 400V / Three phase / 50Hz			
Н	Generation			
Α	"A"= A control			

3) MXZ Series

M	M Series
X	Multi-system outdoor unit (heat pump)
Z	Inverter heat pump
_	
4	Maximum number of connectable indoor units
D/E/F/HJ/DM	Generation / Type
72	Rated cooling capacity (kW base)
V	"V"= 230V / Single phase / 50Hz
Α	"A"= R410A with new A control
HZ	"HZ"= Hyper Heating model , "H"= Anti-freeze heater equipped model

Refrigerant Amount

M/S/P/Multi/Zubadan/ATW

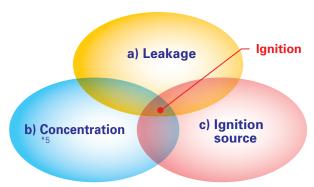
		Refrigerant		Pre-charged quantity		Max. added quantity	
	Model Name		GWP	Weight [kg]	CO ₂ equivalent	Weight [kg]	CO ₂ equivalent
	MU7 I NOTI / O	Doo	075		[t]		[t]
	MUZ-LN25VG	R32	675	1.00	0.68	0.26	0.18
	MUZ-LN35VG MUZ-LN50VG	R32	675 675	1.00	0.68	0.26	0.18
	MUZ-LN60VG	R32	675	1.45	0.98	0.46	0.32
	MUZ-LN25VGHZ	R32	675	1.00	0.68	0.26	0.18
	MUZ-LN35VGHZ	R32	675	1.00	0.68	0.26	0.18
	MUZ-LN50VGHZ	R32	675	1.45	0.98	0.46	0.32
	MUZ-AP25VG	R32	675	0.55	0.37	0.26	0.18
	MUZ-AP35VG	R32	675	0.55	0.37	0.26	0.18
	MUZ-AP42VG	R32	675	0.70	0.47	0.26	0.18
	MUZ-AP50VG	R32	675	1.00	0.68	0.26	0.18
	MUZ-AP25VGH MUZ-AP35VGH	R32 R32	675 675	0.55	0.37	0.26	0.18
	MUZ-AP42VGH	R32	675	0.55	0.37	0.26	0.18
	MUZ-AP50VGH	R32	675	1.00	0.47	0.26	0.18
	MUZ-FH25VE	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-FH35VE	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-FH50VE	R410A	2088	1.55	3.24	0.46	0.97
	MUZ-FH25VEHZ	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-FH35VEHZ	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-FH50VEHZ	R410A	2088	1.55	3.24	0.46	0.97
	MUZ-EF25VE(H)	R410A	2088	0.8	1.68	0.39	0.82
	MUZ-EF35VE(H)	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-EF42VE	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-EF50VE	R410A	2088	1.45	3.03	0.46	0.97
	MUZ-SF25VE(H) MUZ-SF35VE(H)	R410A R410A	2088	0.7	1.47	0.39	0.82
	MUZ-SF42VE(H)	R410A	2088	1.15	2.41	0.39	0.82
	MUZ-SF50VE(H)	R410A	2088	1.55	3.24	0.46	0.97
	MUZ-GF60VE	R410A	2088	1.55	3.24	0.4	0.84
	MUZ-GF71VE	R410A	2088	1.9	3.97	1.1	2.30
	MUZ-WN25VA	R410A	2088	0.7	1.47	0.26	0.55
M-Series	MUZ-WN35VA	R410A	2088	0.7	1.47	0.26	0.55
	MUZ-DM25VA	R410A	2088	0.7	1.47	0.26	0.55
	MUZ-DM35VA	R410A	2088	0.72	1.51	0.26	0.55
	MUZ-HJ25VA	R410A	2088	0.7	1.47	0.26	0.55
	MUZ-HJ35VA	R410A	2088	0.72	1.51	0.26	0.55
	MUZ-HJ50VA	R410A	2088	1.15	2.41	0.26	0.55
	MUZ-HJ60VA MUZ-HJ71VA	R410A R410A	2088	1.8	3.76 3.76	0.46	0.97
	MUFZ-KJ25VE	R410A	2088	1.1	2.30	0.40	0.82
	MUFZ-KJ35VE	R410A	2088	1.1	2.30	0.39	0.82
	MUFZ-KJ50VE	R410A	2088	1.5	3.14	0.46	0.97
	MUFZ-KJ25VEHZ	R410A	2088	1.1	2.30	0.39	0.82
	MUFZ-KJ35VEHZ	R410A	2088	1.1	2.30	0.39	0.82
	MUFZ-KJ50VEHZ	R410A	2088	1.5	3.14	0.46	0.97
	MXZ-2D33VA	R410A	2088	1.3	2.72	0.0	0.00
	MXZ-2D42VA2	R410A	2088	1.3	2.72	0.2	0.42
	MXZ-2D53VA2	R410A	2088	1.3	2.72	0.2	0.42
	MXZ-3E54VA(H)	R410A	2088	2.7	5.64	0.2	0.42
	MXZ-3E68VA	R410A	2088	2.7	5.64	0.4	0.84
	MXZ-4E72VA MXZ-4E83VA	R410A R410A	2088	3.0	5.64 6.25	0.4	1.88
	MXZ-5E102VA	R410A	2088	3.0	6.25	1.6	3.35
	MXZ-6D122VA	R410A	2088	4.0	8.36	1.0	2.09
	MXZ-2F33VF	R32	675	1.0	0.68	1.0	0.68
	MXZ-2F42VF	R32	675	1.2	0.81	1.4	0.95
	MXZ-2F53VF	R32	675	1.2	0.81	1.4	0.95
	MXZ-3F54VF	R32	675	2.4	1.62	2.4	1.62
	MXZ-3F68VF	R32	675	2.4	1.62	2.4	1.62
	MXZ-4F72VF	R32	675	2.4	1.62	2.4	1.62
	MXZ-2E53VAHZ	R410A	2088	2.0	4.18	0.2	0.42
	MXZ-4E83VAHZ	R410A	2088	3.9	8.15	0.9	1.88
	MXZ-2DM40VA	R410A	2088	1.0	1.99	0.2	0.42
	MXZ-3DM50VA	R410A	2088	2.7	5.64	0.2	0.42
	SUZ-KA25VA6	R410A	2088	0.8	1.68	0.39	0.82
S-Series	SUZ-KA35VA6	R410A	2088	1.15	2.41	0.39	0.82
0 001103	SUZ-KA50VA6 SUZ-KA60VA6	R410A R410A	2088	1.6	3.35 3.35	0.46	0.97
	SUZ-KA71VA6	R410A	2088	1.8	3.76	1.265	2.65
	332 IVV I VAU	INTIOA	2000	1.0	0.70	1.200	2.00

		Refrigerant		Pre-charged		Max. added	
	Model Name	ricing		qu	antity	qu	Jantity
			GWP	Weight [kg]	CO ₂ equivalent	Weight [kg]	CO ₂ equivalent
	DLIZ ZNAOCVIKA	DOO	675		[t]		[t]
	PUZ-ZM35VKA PUZ-ZM50VKA	R32 R32	675 675	2.0	1.35	0.3	0.20
	PUZ-ZIVISOVKA PUZ-ZM60VHA	R32	675	2.8	1.89	0.8	0.54
	PUZ-ZM71VHA	R32	675	2.8	1.89	0.8	0.54
	PUZ-ZM100VKA	R32	675	4.0	2.70	2.8	1.89
	PUZ-ZM100YKA	R32	675	4.0	2.70	2.8	1.89
	PUZ-ZM125VKA	R32	675	4.0	2.70	2.8	1.89
	PUZ-ZM125YKA PUZ-ZM140VKA	R32 R32	675 675	4.0	2.70	2.8	1.89
	PUZ-ZM140YKA	R32	675	4.0	2.70	2.8	1.89
	PUHZ-ZRP35VKA2	R410A	2088	2.2	4.60	0.4	0.84
	PUHZ-ZRP50VKA2	R410A	2088	2.4	5.02	0.4	0.84
	PUHZ-ZRP60VHA2	R410A	2088	3.5	7.31	1.2	2.51
	PUHZ-ZRP71VHA2	R410A	2088	3.5	7.31	1.2	2.51
	PUHZ-ZRP100VKA3 PUHZ-ZRP100YKA3	R410A R410A	2088	5.0	10.44	2.4	5.02
	PUHZ-ZRP125VKA3	R410A	2088	5.0	10.44	2.4	5.02
P-Series	PUHZ-ZRP125YKA3	R410A	2088	5.0	10.44	2.4	5.02
	PUHZ-ZRP140VKA3	R410A	2088	5.0	10.44	2.4	5.02
	PUHZ-ZRP140YKA3	R410A	2088	5.0	10.44	2.4	5.02
	PUHZ-ZRP200YKA3	R410A	2088	7.1	14.83	3.6	7.52
	PUHZ-ZRP250YKA3	R410A	2088	7.7	16.08	4.8	10.03
	PUHZ-P100VKA PUHZ-P100YKA	R410A R410A	2088	3.3	6.89	1.2	2.51
	PUHZ-P125VKA	R410A	2088	3.8	7.93	1.2	2.51
	PUHZ-P125YKA	R410A	2088	3.8	7.93	1.2	2.51
	PUHZ-P140VKA	R410A	2088	3.8	7.93	1.2	2.51
	PUHZ-P140YKA	R410A	2088	3.8	7.93	1.2	2.51
	PUHZ-P200YKA3	R410A	2088	6.5	13.58	3.6	7.52
	PUHZ-P250YKA3	R410A	2088	7.7	16.08	4.8	10.03
	PUHZ-SHW112VHA PUHZ-SHW112YHA	R410A R410A	2088	5.5 5.5	11.49 11.49	2.4	5.02 5.02
	PUHZ-SHW140VHA	R410A	2088	5.5	11.49	2.4	5.02
	PUHZ-SHW140YHA	R410A	2088	5.5	11.49	2.4	5.02
	PUHZ-FRP71VHA	R410A	2088	3.8	7.94	1.8	3.76
	PUMY-SP112VKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMY-SP112YKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMY-SP125VKM(-BS) PUMY-SP125YKM(-BS)	R410A R410A	2088	3.5	7.31	9.0	18.79
	PUMY-SP140VKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMY-SP140YKM(-BS)	R410A	2088	3.5	7.31	9.0	18.79
PUMY	PUMY-P112VKM4(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P125VKM4(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P140VKM4(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P112YKM(E)4(-BS) PUMY-P125YKM(E)4(-BS)	R410A R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P140YKM(E)4(-BS)	R410A		4.8	10.02	13.8	28.81
	PUMY-P200YKM2 (-BS)	R410A	2088	7.3	15.24	13.1	27.35
	PUHZ-W50VHA2(-BS)	R410A	2088	1.7	3.55	-	
	PUHZ-W85VHA2(-BS)	R410A	2088	2.4	5.02	-	
ATW	PUHZ-W112VHA(-BS)	R410A	2088	4.0	8.36	-	
Packaged	PUHZ-HW112YHA2(-BS)	R410A	2088	4.0	8.36	-	
	PUHZ-HW140VHA2(-BS) PUHZ-HW140YHA2(-BS)	R410A R410A	2088	4.3	8.98 8.98	_	
	SUHZ-SW45VA(H)	R410A	2088	1.3	2.72	0.35	0.72
	PUHZ-SW50VKA(-BS)	R410A	2088	1.4	2.93	0.6	1.26
	PUHZ-SW75VAA(-BS)	R410A	2088	3.0	6.27	1.8	3.76
	PUHZ-SW75YAA(-BS)	R410A	2088	3.0	6.27	1.8	3.76
	PUHZ-SW100VAA(-BS) PUHZ-SW100YAA(-BS)	R410A R410A	2088	4.2	8.77	1.8	3.76
	PUHZ-SW75VHA(-BS)	R410A	2088	4.2 3.2	8.77 6.69	1.8	3.76 2.93
	PUHZ-SW100VHA(-BS)	R410A	2088	4.6	9.61	2.9	6.06
	PUHZ-SW100YHA(-BS)	R410A	2088	4.6	9.61	2.9	6.06
	PUHZ-SW120VHA(-BS)	R410A	2088	4.6	9.61	2.9	6.06
ATW	PUHZ-SW120YHA(-BS)	R410A	2088	4.6	9.61	2.9	6.06
Split	PUHZ-SW160YKA(-BS)	R410A	2088	7.1	14.83	4.0	8.36
	PUHZ-SW200YKA(-BS) PUHZ-SHW80VAA	R410A R410A	2088	7.7 4.6	16.08 9.61	5.2 1.4	10.86
	PUHZ-SHW80YAA	R410A	2088	4.6	9.61	1.4	2.93
	PUHZ-SHW112VAA	R410A	2088	4.6	9.61	1.4	2.93
	PUHZ-SHW112YAA	R410A	2088	4.6	9.61	1.4	2.93
	PUHZ-SHW80VHA	R410A	2088	5.5	11.49	2.4	5.02
	PUHZ-SHW112VHA	R410A	2088	5.5	11.49	2.4	5.02
	PUHZ-SHW112YHA PUHZ-SHW140YHA	R410A R410A	2088	5.5 5.5	11.49	2.4	5.02
	PUHZ-SHW140YHA PUHZ-SHW230YKA2	R410A	2088	7.7	11.49	5.2	5.02 10.86
Mr. Slim+	PUHZ-FRP71VHA2	R410A	2088	3.8	7.94	1.8	3.76
							-

R32 REFRIGERANT

R32 REFRIGERANT PROPERTIES

Under the conditions shown below, there is a possibility that R32 could ignite.



	R32	R410A	R22
Chemical formula	CH ₂ F ₂	CH ₂ F ₂ /CHF ₂ CF ₃	CHCIF2
Composition (blend ratio wt. %)	Single composition	R32/R125 (50/50 wt %)	Single composition
Ozone depletion potential (ODP)	0	0	0.055
Global warming potential (GWP) *1	675	2088	1810
LFL(vol.%) *2	13.3	_	-
UFL(vol.%) *3	29.3	_	_
Flammability *4	Lower flammability (2L)	No flame propagation (1)	No flame propagation (1)

^{*1} IPCC 4th assessment report.

Although R32 is classified as low flammability, the possibility of igniting can be eliminated by ensuring the following three points.

a) Do not leak refrigerant.

< Installation> \cdot Vacuum drying should be done. Air purging is prohibited.

·Follow "4. Installation Points of Refrigerant Piping Work".

< Repair/Relocation/Removal > · Pump down or recovering refrigerant should be done.

b) Prevent concentration.

·Ventilate during installation and servicing, such as open the door or window and use a fan.

·Follow "2. Installation Restrictions".

c) Keep ignition source away from the unit.

Do not braze pipe and unit which contain refrigerant. Before brazing, refrigerant should be recovered.

Do not install unit while the electricity is turned on. Turn off electricity at the fuse box and check the wiring using a tester.

Do not smoke when working or during transportation of the product.

Note

Both R32 / R410A emit a toxic gas when coming into contact with an open flame.

^{*2} LFL : Lower flammable limit

^{*3} UFL: Upper flammable limit

^{*4} ISO 817:2014

^{*5} R32 consistency is higher than LFL*1 and lower than UFL*2.

INSTALLATION RESTRICTIONS

In order to prevent the refrigerant from igniting, use the following instructions during installation.

1) Indoor Units

Install in a room with a floor area of Amin* or more, corresponding to refrigerant quantity M.

(M = factory-charged refrigerant + locally added refrigerant)

Install the indoor unit so that the height from the floor to the bottom of the indoor unit is hO^* .

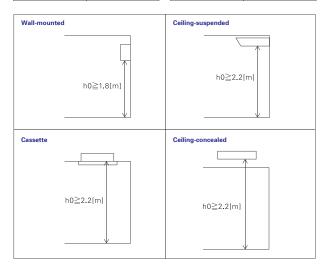
* Refer to table and drawings below

<M & P Series>

VIVI OCT Series/	
Mlkgl	Amin[m²]
1.0	4
1.5	6
2.0	8
2.5	10
3.0	12
3.5	14
4.0	16
4.5	20
5.0	24
5.5	29
6.0	35
6.5	41
7.0	47
7.5	54

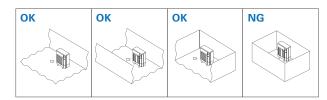
<MXZ Series>

Amin[m²]
3
4.5
6
7.5
9
12
15.5
20
24
29
35
41
47
54



2) Outdoor Units

Install outdoor units in a place where at least one of the four sides is open or in a sufficiently large space without depressions.



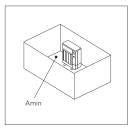
If you unavoidably install a unit in a space where all four sides are blocked or there are depressions, confirm that one of these situations (A, B or C) is satisfied.

A Secure sufficient installation space (minimum installation area Amin).

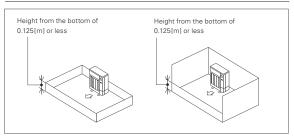
Install in a space with an installation area of Amin* or more, corresponding to refrigerant quantity M. (M = factory-charged refrigerant + locally added refrigerant)

* Refer to table and drawings below.

M[kg]	Amin[m²]
1.0	12
1.5	17
2.0	23
2.5	28
3.0	34
3.5	39
4.0	45
4.5	50
5.0	56
5.5	62
6.0	67
6.5	73
7.0	78
7.5	84



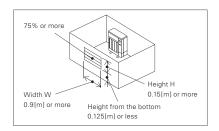
\blacksquare Install in a space with a depression height of \le 0.125[m].



Create an appropriate open ventilation area.

Make sure that the width of the open area is 0.9[m] or more and the height of the open area is 0.15[m] or more.

However, the height from the bottom of the installation space to the bottom edge of the open area should be 0.125[m] or less. More than 75% of the ventilation area should be open to allow air circulation.



Note These countermeasures (A, B or C) are for keeping safety not for specification guarantee.

• Models with R32 Refrigerant: MSZ-L Series (single connection)

OSSNAY SYSTEM







LOSSNAY LINE-UP

A	pplication	Air volume Model	50 CMH	100 CMH	150 CMH	250 CMH	350 CMH	500 CMH	650 CMH	800 CMH	1000 CMH	1500 CMH	2000 CMH	2500 CMH
		LGH-RVX Series			•	•	•	•	•	•	•	•	•	
Co	mmerical	LGH-RVXT Series										•	•	•
	Use	GUF Series						•			•			
	Optional Unit	Dx-Coil unit for Lossnay LGH-RVX/RVXT Series GUG Series						•	•	•	•	•	•	•
		VL-220CZGV-E				•								
Re	esidential Use	VL-100(E)U5-E		•										
		VL-50(E)S ₂ -E VL-50SR ₂ -E	•											

LGH-RVX Series

This commercially oriented system can be utilized virtually anywhere with high performance and functions.

LGH-RVXT Series

Thin large air volume models in LGH series with high performance and functions.

Dx-Coil Unit (GUG Series)

Temperature control equipment working with Lossnay unit and Mr. Slim outdoor unit.

GUF Series

Heat recovery with heating and cooling system using the heat resource of City Multi outdoor unit.

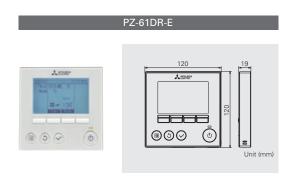
VL-220CZGV-E

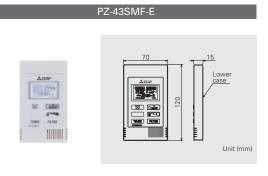
Centralized ventilation for residential use with sensible heat exchange.

VL-100(E)U5-E, VL-50(E)S2-E

Wall mount models. Particularly suitable for houses and small offices.

REMOTE CONTROLLER

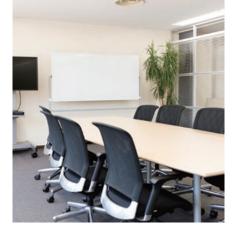




Function	PZ-61	DR-E	PZ-439	SMF-E
(Communicating Mode)	LGH-RVX/RVXT	VL-220CZGV-E	LGH-RVX/RVXT	VL-220CZGV-E
Fan speed selection	4 fan speeds	4 fan speeds	2 of 4 fan speeds	2 of 4 fan speeds
Ventilation mode selection	Energy recovery / Bypass / Auto	Heat recovery / Bypass / Auto (available with optional parts P-133DUE-E)	Energy recovery / Bypass / Auto	Heat recovery / Bypass / Auto (available with optional parts P-133DUE-E)
Night-purge (time)	Anytime schedule	No	No	No
Night-purge (fan speed)	Selectable from 4 fan speeds	No	No	No
Function setting from RC	Yes	Yes	No	No
Bypass temp. free setting	Yes	Yes (available with optional parts P-133DUE-E)	No	No
Heater-On temp. free setting	Yes	No	No	No
Fan power change after installation	Yes	Yes	No	No
On/Off timer	Yes	Yes	Yes	Yes
Auto-Off timer	Yes	Yes	No	No
Weekly timer	Yes	Yes	No	No
Operation restrictions (On/Off, ventilation mode, fan speed)	Yes	Yes (ventilation mode is available with optional parts P-133DUE-E)	No	No
Operation restrictions (fan speed skip setting)	Yes	Yes	No	No
Screen contrast adjustment	Yes	Yes	No	No
Language selection	Yes (8 languages)	Yes (8 languages)	No (English Only)	No (English Only)
Initializing remote controller	Yes	Yes	No	No
Filter cleaning sign	Yes	Yes	Yes	Yes
Lossnay core cleaning sign	Yes	No	No	No
Error indication	Yes	Yes	Yes	Yes
Error history	Yes	Yes	No	No

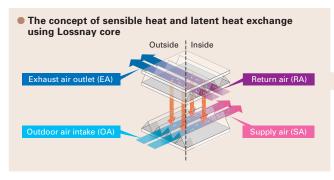
LOSSNAY

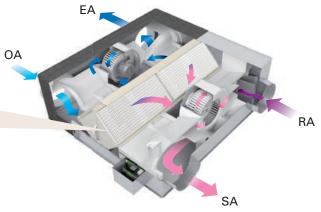
Lossnay ventilation systems are renowned industry-wide for their efficiency. They offer environment-friendly energy recovery and humidity control, and enable air conditioning systems to simultaneously provide optimum room comfort and energy savings.



Indoor Air Quality Inside a Building is Optimised Through Temperature and Humidity Exchange by Lossnay

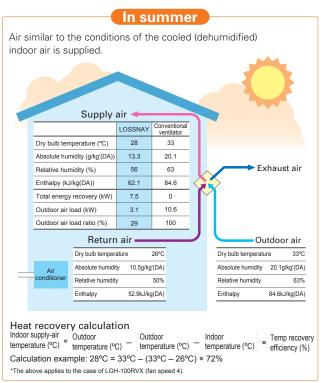
Lossnay is a total heat exchange ventilation system that uses paper characteristics to perform temperature (sensible heat) and humidity (latent heat) exchange.

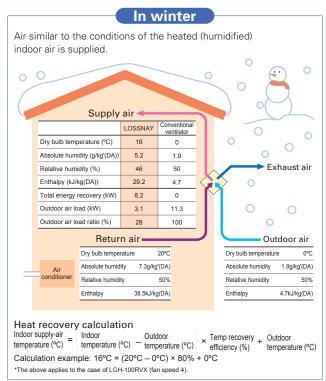




What can be Improved by Introducing Lossnay?

Ventilation with maximised comfort





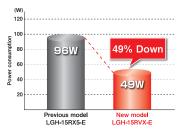
Commercial Use Lossnay

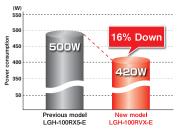
LGH-RVX (Standard model)

Power consumption reduced further with introduction of a DC motor

Realized low power consumption with introduction of a high efficiency brushless DC motor. Compared to models with an AC motor, power consumption is reduced.

Comparison between new and previous power consumption (New model: Fan speed 4 at 230V 50Hz, Previous model: Extra-High at 220V 50Hz)





Improved Air Volume Range

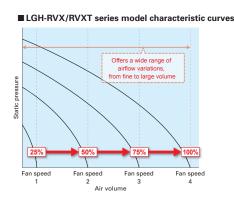
Wide range air volume

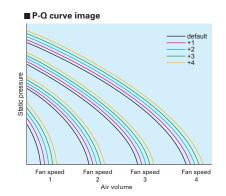
Each fan speed has a range setting of 25, 50, 75 and 100%, allowing much finer air volume control. When used in combination with the CO₂ sensor or timer function, the air volume can be controlled according to conditions that realize better performance and reduce power consumption.

Fan speed adjustment function

The default fan speed value can be adjusted slightly. Use the PZ-61DR-E remote controller to reset the speed.

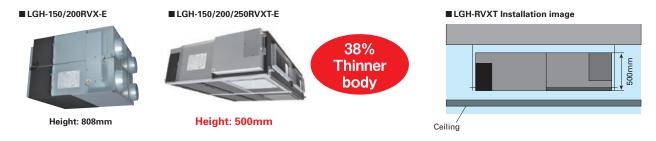
- 1) Considering the total hours of Lossnay operation (filter clogging), the fan power can be adjusted automatically after a given period of time.
- 2) After the unit is installed, when if the air volume is slightly lower than the desired airflow, it is possible to make fine adjustments.





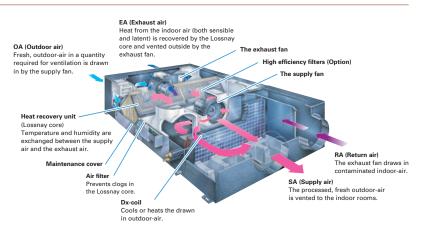
LGH-RVXT (Thinner body type)

The LGH-RVXT series have a large air volume of 1500 - 2500 CMH, but has a thin body @500mm. Installing the unit behind the ceiling is easy.



GUF Series (Lossnay with Dx-coil unit)

Along with Lossnay ventilation, the OA Processing Unit is really two units in one, functioning as the main air conditioner when the load is light and adding supplemental air conditioning when the load is heavy.



Commercial Use Lossnay Specifications

LGH-RVX Series

Model					LGH-15	RVX-E						- 1	LGH-2	5RVX-I	E					- 1	LGH-3	RVX-I	.		
Electrical power supply				220-24	10V/50H	lz, 220	V/60Hz	2				220-24	0V/50H	Hz, 220	V/60Hz					220-24	IOV/50H	lz, 220	V/60H:	2	
Ventilation mode		Hea	at reco	very m	ode		Bypass	s mode		He	at reco	very m	ode		Bypass	mode		He	at reco	very m	ode		Bypas	s mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		0.40	0.24	0.15	0.10	0.41	0.25	0.15	0.10	0.48	0.28	0.16	0.10	0.48	0.29	0.16	0.11	0.98	0.54	0.26	0.12	0.98	0.56	0.28	0.13
Input power (W)		49	28	14	7	52	28	14	8	62	33	16	7.5	63	35	17	9	140	70	31	11	145	72	35	13
Air volume	(m ³ /h)	150	113	75	38	150	113	75	38	250	188	125	63	250	188	125	63	350	263	175	88	350	263	175	88
All volume	(L/s)	42	31	21	10	42	31	21	10	69	52	35	17	69	52	35	17	97	73	49	24	97	73	49	24
External static pressure (Pa)		95	54	24	6	95	54	24	6	85	48	21	5	85	48	21	5	160	90	40	10	160	90	40	10
Temperature exchange efficiency	y (%)	80	81	83	84	-	-	-	-	79	80	82	86	-	-	-	-	80	82.5	86	88.5	-	-	-	-
Enthalpy exchange	Heating	73	75.5	78	79	-	-	-	-	69.5	72	76	83	-	-	-	-	71.5	74	78.5	83.5	-	-	-	-
efficiency (%)	Cooling	71	74.5	78	79	-	-	-	-	68	70	74.5	83	-	-	-	-	71	73	78	82	-	-	-	-
Noise (dB) (Measured at 1.5m under of unit in an anechoeic ch	the center namber)	28	24	19	17	29	24	19	18	27	22	20	17	27.5	23	20	17	32	28	20	17	32.5	28	20	18
Weight (kg)					2	0							2	23							3	0			
Specific energy consumption class					-	4							,	Д								-			

Model				- 1	LGH-50	RVX-E						-	LGH-65	RVX-E	E						LGH-80	RVX-I			
Electrical power supply				220-24	10V/50H	lz, 220	V/60Hz	2				220-24	0V/50H	Iz, 220	V/60Hz	2				220-24	IOV/50H	Hz, 220	V/60H:	2	
Ventilation mode		Hea	at reco	very m	ode		Bypas	s mode		He	at reco	very m	ode		Bypass	s mode		He	at reco	very m	ode		Bypas	s mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		1.15	0.59	0.26	0.13	1.15	0.59	0.27	0.13	1.65	0.90	0.39	0.15	1.72	0.86	0.38	0.16	1.82	0.83	0.36	0.15	1.97	0.86	0.40	0.15
Input power (W)		165	78	32	12	173	81	35	14	252	131	49	15	262	131	47	17	335	151	60	18	340	151	64	20
Air volume	(m ³ /h)	500	375	250	125	500	375	250	125	650	488	325	163	650	488	325	163	800	600	400	200	800	600	400	200
All volume	(L/s)	139	104	69	35	139	104	69	35	181	135	90	45	181	135	90	45	222	167	111	56	222	167	111	56
External static pressure (Pa)		120	68	30	8	120	68	30	8	120	68	30	8	120	68	30	8	150	85	38	10	150	85	38	10
Temperature exchange efficiency	y (%)	78	81	83.5	87	-	-	-	-	77	81	84	86	-	-	-	-	79	82.5	84	85	-	-	-	-
Enthalpy exchange	Heating	69	71	75	82.5	-	-	-	-	68.5	71	76	82	-	-	-	-	71	73.5	78	81	-	-	-	-
efficiency (%)	Cooling	66.5	68	72.5	82	-	-	-	-	66	69.5	74	81	-	-	-	-	70	72.5	78	81	-	-	-	-
Noise (dB) (Measured at 1.5m under of unit in an anechoeic ch	the center namber)	34	28	19	18	35	29	20	18	34.5	29	22	18	35.5	29	22	18	34.5	30	23	18	36	30	23	18
Weight (kg)					3	3							3	8							4	8			

Model				L	GH-10	0RVX-	E					L	GH-15	0RVX-	E					L	GH-20	0RVX-	E		
Electrical power supply				220-24	0V/50H	łz, 220	V/60Hz	:				220-24	0V/50H	lz, 220	V/60Hz	2				220-24	0V/50H	lz, 220	V/60Hz	,	
Ventilation mode		Hea	at reco	very m	ode		Bypass	mode		He	at reco	very m	ode		Bypass	s mode		Hea	at reco	very m	ode		Bypass	s mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		2.50	1.20	0.50	0.17	2.50	1.20	0.51	0.19	3.71	1.75	0.70	0.29	3.85	1.78	0.78	0.30	4.88	2.20	0.88	0.33	4.54	2.06	0.87	0.35
Input power (W)		420	200	75	21	420	200	75	23	670	311	123	38	698	311	124	44	850	400	153	42	853	372	150	49
Air volume	(m ³ /h)	1000	750	500	250	1000	750	500	250	1500	1125	750	375	1500	1125	750	375	2000	1500	1000	500	2000	1500	1000	500
All volume	(L/s)	278	208	139	69	278	208	139	69	417	313	208	104	417	313	208	104	556	417	278	139	556	417	278	139
External static pressure (Pa)		170	96	43	11	170	96	43	11	175	98	44	11	175	98	44	11	150	84	38	10	150	84	38	10
Temperature exchange efficiency	y (%)	80	83	86.5	89.5	-	-	-	-	80	82.5	84	85	-	-	-	-	80	83	86.5	89.5	-	-	-	-
Enthalpy exchange	Heating	72.5	74	78	87	-	-	-	-	72	73.5	78	81	-	-	-	-	72.5	74	78	87	-	-	-	-
efficiency (%)	Cooling	71	73	77	85.5	-	-	-	-	70.5	72.5	78	81	-	-	-	-	71	73	77	85.5	-	-	-	-
Noise (dB) (Measured at 1.5m under of unit in an anechoeic ch	the center namber)	37	31	23	18	38	32	24	18	39	32	24	18	40.5	33	26	18	40	36	28	18	41	36	27	19
Weight (kg)					5	4							98	3							11	0			

LGH-RVXT Series

Model				L	GH-150	RVXT	-E					LC	GH-200	RVXT-	-E					L	GH-250	DRVXT	-E		
Electrical power supply				220-24	0V/50H	lz, 220	V/60Hz					220-24	0V/50H	Hz, 220	V/60Hz					220-24	0V/50H	Hz, 220	V/60Hz	,	
Ventilation mode		Hea	at reco	very m	ode		Bypass	mode		He	at reco	very mo	ode		Bypass	mode		Hea	at reco	very m	ode		Bypass	s mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		4.30	2.40	1.10	0.36	3.40	1.80	0.77	0.31	5.40	2.70	1.10	0.39	5.00	2.20	0.85	0.34	7.60	3.60	1.40	0.57	6.90	3.10	1.30	0.49
Input power (W)		792	421	176	48	625	334	134	37	1000	494	197	56	916	407	150	45	1446	687	244	82	1298	587	212	69
Air volume	(m ³ /h)	1500	1125	750	375	1500	1125	750	375	2000	1500	1000	500	2000	1500	1000	500	2500	1875	1250	625	2500	1875	1250	625
All volume	(L/s)	417	313	208	104	417	313	208	104	556	417	278	139	556	417	278	139	694	521	347	174	694	521	347	174
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11	175	98	44	11	175	98	44	11	175	98	44	11	175	98	44	11
External static pressure (Fa)	Return	100	56	25	6	100	56	25	6	100	56	25	6	100	56	25	6	100	56	25	6	100	56	25	6
Temperature exchange efficiency	y (%)	80	80.5	81	81.5	-	-	-	-	80	81	82.5	84	-	-	-	-	77	79	80.5	82.5	-	-	-	-
Enthalpy exchange	Heating	70	71	73	75	-	-	-	-	72.5	73.5	77	83	-	-	-	-	68	71.5	74	79	-	-	-	-
efficiency (%)	Cooling	69	70	72	74	-	-	-	-	70	71	74.5	80.5	-	-	-	-	65.5	69	71.5	76.5	-	-	-	-
Noise (dB) (Measured at 1.5m under of unit in an anechoeic ch	the center namber)	39.5	35.5	29.5	22	39	33	26.5	20.5	39.5	35.5	28	22	40.5	34.5	27	20.5	43	39	32	24	44	38.5	31	22.5
Weight (kg)					15	56							1	59							1:	98			

GUF Series

							_											
Model				GUF-5	0RD4			GUF-1	00RD4			GUF-50	DRDH4			GUF-10	00RDH4	
Electrical po	wer supply			220-240	0V/50Hz			220-240	0V/50Hz			220-240	0V/50Hz			220-24	0V/50Hz	
Ventilation n	node		Heat recov	very mode	Bypas:	s mode	Heat reco	very mode	Bypass	mode	Heat recov	very mode	Bypass	mode	Heat reco	very mode	Bypas	s mode
Fan speed			High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
Running cur	rent (A)		1.15	0.70	1.15	0.70	2.20	1.73	2.25	1.77	1.15	0.70	1.15	0.70	2.20	1.76	2.25	1.77
Input power	(VV)		235-265	150-165	235-265	150-165	480-505	370-395	490-515	385-410	235-265	150-165	235-265	150-165	480-505	385-400	490-515	385-410
Air volume		(m³/h)	500	400	500	400	1000	800	1000	800	500	400	500	400	1000	800	1000	800
All volume		(L/s)	139	111	139	111	278	222	278	222	139	111	139	111	278	222	278	222
External stat	tic pressure (Pa)		140	90	140	90	140	90	140	90	125	80	125	80	135	86	135	86
Temperature	e exchange efficienc	y (%)	77.5	80	-	-	79.5	81.5	-	-	77.5	80	-	-	79.5	81.5	-	-
Enthalpy exc	change	Heating	68	71	-	-	71	74	-	-	68	71	-	-	71	74	-	-
efficiency (%	6)	Cooling	65	67	-	-	69	71	-	-	65	67	-	-	69	71	-	-
Cooling capa	acity (kW)			5.57	(1.94)			11.44	(4.12)			5.57	(1.94)			11.44	(4.12)	
Heating cap	acity (kW)			6.21	(2.04)			12.56	(4.26)			6.21	(2.04)			12.56	(4.26)	
Capacity equ	uivalent to the indoo	or unit		P3	32			P	33			P3	32			P	63	
	Humidifying			-	-			-	-				Per	meable fi	lm humid	lifier		
Humidifier	Humidifying capaci	ity(kg/h)		-	-			-	-			2.7 (he	eating)			5.4 (h	eating)	
	Water supply press	sure		-	-			-	-		Minim	um press	ure: 2.0 >	× 10 ⁴ Pa	Maximu	m pressur	e: 49.0 >	< 10 ⁴ Pa
Noise (dB) (I	Measured at 1.5m ur	nder the center of the unit)	33.5-34.5	29.5-30.5	35-36	29.5-30.5	38-39	34-35	38-39	35-36	33.5-34.5	29.5-30.5	35-36	29.5-30.5	38-39	34-35	38-39	35-36
Weight (kg)				4	8			8	2		51	(filled wi	th water 5	55)	88	(filled wi	th water	96)

For LGH-RVX and LGH-RVXT series

*The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz.

*For the specification at the other frequency contact your dealer.

*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

#For GUF series

*Cooling/Heating capacity indicates the maximum value at operation under the following condition.

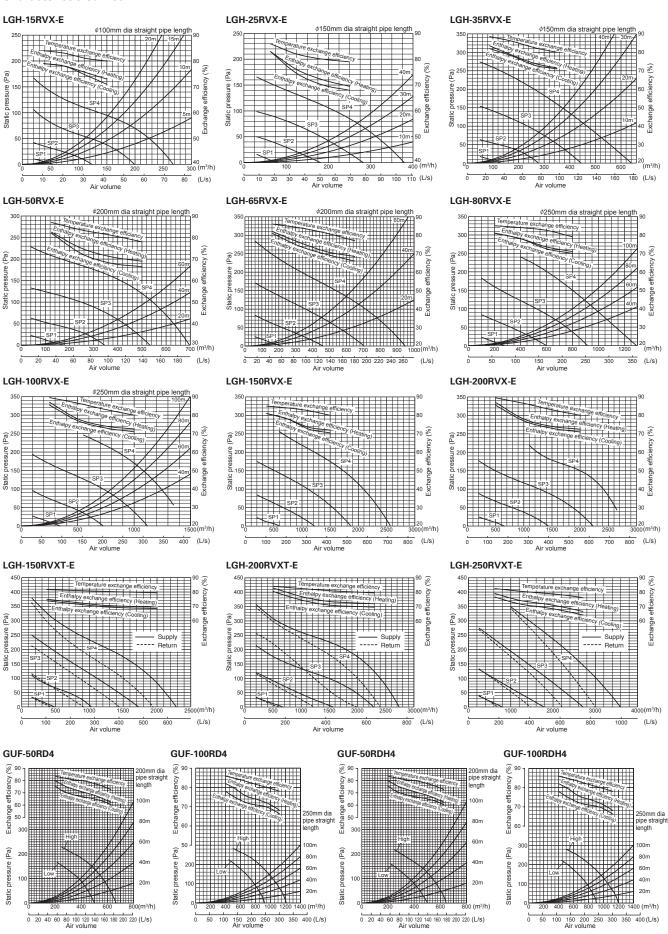
Cooling: Indoor: 27°C DB/19°C WB Outdoor: 35°C DB/24°C WB

#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.

Characteristic Curves

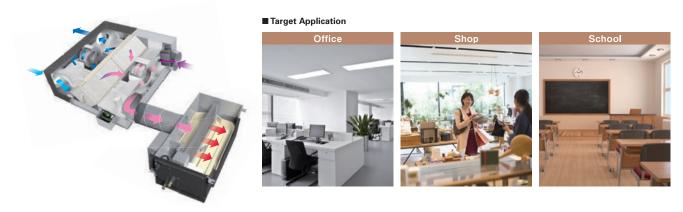


Optional Dx-coil Unit for Lossnay

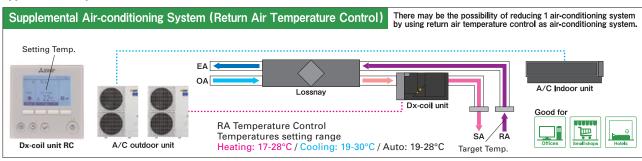
Supply Comfortable Control

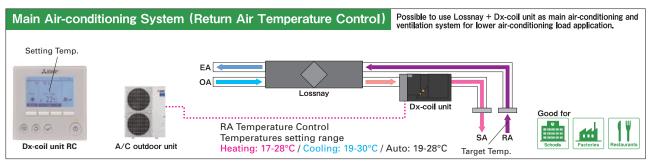
Product Features

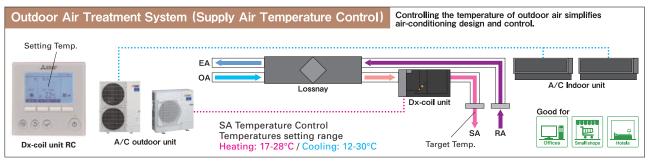
- · Lossnay return air and supply air temperature control are possible with Dx-coil unit which is connectable with Mr. Slim (Power inveter series)
- Expand the product line-up of Lossnay with temperature control (500-2,500CMH) by the connection of Dx-coil unit. Suitable for various applications such as offices, shops and schools etc.



Application Examples

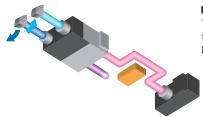






*Example images of using LGH-RVXT series for reference only.

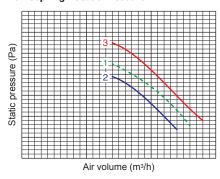
Flexible Installation



Flexible Connection to Lossnay

The length of the connection cable (accessory) between the Lossnay and Dx-coil unit is about 6m, so flexible installation is possible (two units can be installed close together or far apart with straight or bent ducting).

To Keep High Static Pressure



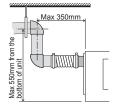
P-Q curve image

- 1. Lossnay unit
- 2. Lossnay unit + Dx-coil unit
- 3. Lossnay unit (fan power up +4) + Dx-coil unit

Dx-coil unit static pressure loss is kept to minimum, making it possible to maintain high static pressure using the fan power up function of the Lossnay. The fan power up function is only available when used with the PZ-61DR-E Lossnay remote controller.

Drain Pump Equipment

A built-in drain pump makes, attaching the drain hose in the ceiling cavity easy, resulting in simple and fast installation.



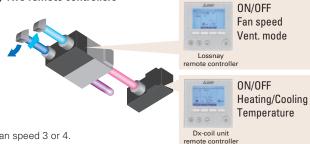
User-friendly System Control

Flexible Remote Controller Selection

(A) One remote controller



(B) Two remote controllers



When using only one remote controller, the Lossnay fan speed is fixed at fan speed 3 or 4.

When using two remote controllers, all of Lossnay function is available.

- *1: Both of Lossnay unit and Dx-coil unit will synchronously switch to ON and OFF.
- *2: When one of the two remote controllers is turned ON, the other remote controller turns ON synchronously.

Priority Mode Selection

Temperature priority mode (factory setting) or Fan speed priority mode are selectable when Lossnay unit fan speed is controlled by a CO₂-sensor or a BMS (analogue input (0-10VDC) or a volt-free input).

*During fan speed 1 or 2, the Dx-coil unit is always thermo-OFF

ſ	Operation	Fan speed order	Actual fa	n speed
1	mode	from external input	Temp. priority	Fan speed priority
		FS4	FS4	FS4
1	Heating	FS3	FS3	FS3
	Cooling	FS2	FS3	FS2
1	ocomig	FS1	FS3	FS1
ſ		FS4	FS4	FS4
1	Fan	FS3	FS3	FS3
1	Гап	FS2	FS2	FS2
Į		FS1	FS1	FS1

Specifications

GUG Series





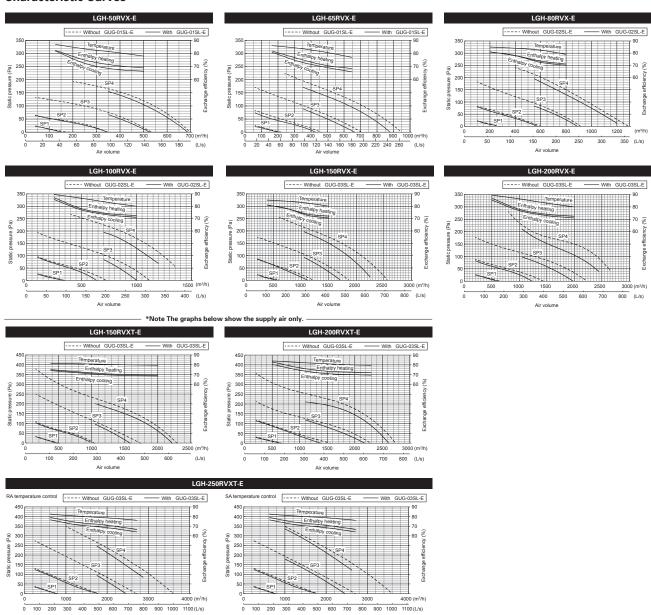


GUG-01SL-E GUG-02SL-E GUG-03SL-E

Model			(C	onnection		01SL-E RVX-E or L	.GH-65RV	(-E)			(Co	onnection 1	GUG- to LGH-80F	02SL-E RVX-E or LO	GH-100RV	X-E)	
Refrigerant					R4	10A							R41	10A			
Electrical power supp	ply		220-24	OV / 50Hz, 2	220V / 60H	z (Supplied	from outdo	or unit)			220-24	0V / 50Hz,	220V / 60H:	z (Supplied	from outdo	or unit)	
Input power				Heating	/ Fan: 2.5\	N, Cooling:	12.4W					Heating	g / Fan: 2.5\	N, Cooling:	12.4W		
Running current					Less th	an 0.1A							Less th	an 0.1A			
Weight				21kg	*Accesso	ories: Appro	x. 1kg					26kg	*Accesso	ories: Appro	x. 1kg		
		Heating	/ Cooling /	Auto / Fan	*Auto is	only availal	ble for RA t	emperature	control	Heating	/ Cooling /	Auto / Fan	*Auto is	only availab	ole for RA t	emperature	e control
Function				RA (Re	turn Air) te	mperature (control						ure control and not po				
								RA (Re	turn Air) te	emperature	control						
Connectable Lossnay	y unit		LGH-5	ORVX-E			LGH-6	5RVX-E			LGH-8	0RVX-E			LGH-10	00RVX-E	
Capacity [kW]	Heating		6.5 (2.4	1 + 4.1)			7.7 (3.:	2 + 4.5)			10.0 (4	.0 + 6.0)			13.2 (5	.1 + 8.1)	
	Cooling		5.6 (2.0) + 3.6)			6.6 (2.	6 + 4.0)			8.3 (3.3	3 + 5.0)			11.3 (4	.2 + 7.1)	
SHF			0.	66			0.	69			0.	.69			0.	.66	
Performance index	Heating		4.	09			4.	72			4.	.62			4.	.42	
	Cooling		4.	69			5.	03			4.	.76			4.	.98	
Air flow range at SP3	3 and SP4		350 - 6	95 m³/h			350 - 9	00 m³/h			560 - 12	200 m³/h			700 - 12	200 m ³ /h	
Connectable outdoor	r unit			PUHZ-	-ZRP35			PUHZ-	-ZRP50			PUHZ	-ZRP71				
Ext. piping		Diamet	ter Liquio	d / Gas: 6.3	5 / 12.7	Diame	ter Liqui	d / Gas: 6.3	5 / 12.7	Diame	ter Liqui	d / Gas: 6.3	5 / 12.7	Diamet	er Liquic	l / Gas: 9.52	2 / 15.88
LXt. piping		Maximum	length: 50m	Maximum h	eight: 30m	Maximum	length: 50m	, Maximum	neight: 30m	Maximum				Maximum	length: 50m	, Maximum	height: 30n
Required optional pa	rts			-				-		PAC-S	H30RJ-E a	nd PAC-SH	50RJ-E			-	
								SA (Su	pply Air) te	emperatur	e control						
Connectable Lossnay	y unit			-				-			LGH-8	0RVX-E			LGH-10	00RVX-E	
Capacity [kW]	Heating			-				-			10.0 (4	.0 + 6.0)			11.4 (5	.1 + 6.3)	
	Cooling			-				-			8.3 (3.3	3 + 5.0)			9.5 (4.	2 + 5.3)	
SHF				-				-			0.	.69			0.	.73	
Performance index	Heating			-				-			4.	.62			5.	.09	
	Cooling			-				-			4.	.76			5.	.43	
Air flow range at SP3	3 and SP4			-				-			560 - 12	200 m ³ /h			700 - 12	200 m ³ /h	
Connectable outdoor	r unit			-				-			PUHZ-	-ZRP50			PUHZ	-ZRP50	
Ext. piping				-				-		Diame	ter Liqui	d / Gas: 6.3	5 / 12.7	Diame	ter Liqui	d / Gas: 6.3	5 / 12.7
, , ,				-				-		Maximum	length: 50m	, Maximum	height: 30m	Maximum	length: 50m	, Maximum	height: 30m
Required optional pa	optional parts							-			H30RJ-E a	nd PAC-SH	50RJ-E	PAC-S	H30RJ-E a	nd PAC-SH	50RJ-E
									entilation	specification							
Connectable Lossnay	y unit		LGH-5	ORVX-E			LGH-6	5RVX-E	,		LGH-8	0RVX-E	,		LGH-10	00RVX-E	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Air Volume	[m ³ /h]	500	375	250	125	650	488	325	163	800	600	400	200	1,000	750	500	250
All volume	[L/s]	139	104	69	35	181	135	90	45	222	167	111	56	278	208	139	69
External static pressi	ure [Pa]	105	59	26	7	95	53	24	6	130	73	33	8	130	73	33	8

Model		GUG-0: (Connection to LGH-150R					LGH-20	0RVX-E)			((Connect	ion to LO	GH-150R\		03SL-E .GH-200	RVXT-E o	r LGH-2	50RVXT-	·E)	
Refrigerant			(connection to East Tourity, 2 of East Econty, 2)						R410A												
Electrical power supp	oly						220-240V / 50Hz, 220V / 60Hz (Supplied from outdoor unit)														
Input power										Heating / Fan: 2.5W, Cooling: 12.4W											
Running current											Less th	an 0.1A									
Weight										28kg ¹	*Accesso	ries: Ap	orox. 1kg								
							Heati	ng / Cool	ing / Auto	o / Fan	*Auto is	only ava	ilable for	RA temp	erature o	control					
Function							F	RA (Retur	n Air) ter	nperature	control /	/ SA (Sup	ply Air) t	emperatu	ire contro	ol					
							[Mus	st be set	at initial s	setting an	d not pos	ssible to	change f	rom remo	ote contr	oller]					
									R	A (Retur	n Air) te	mperatı	ıre contr	ol							
Connectable Lossnay	y unit		LGH-15	0RVX-E			LGH-20	0RVX-E			LGH-150	RVXT-E			LGH-200	ORVXT-E			LGH-250	RVXT-E	
Capacity [kW]	Heating		20.7 (7.7	7 + 13.0	1	2	23.8 (10.	3 + 13.5)	:	20.4 (7.4	+ 13.0	1	2	23.8 (10.	3 + 13.5)	2	6.1 (12.	1 + 14.0))
Capacity [KVV]	Cooling		15.8 (6.3	3 + 9.5)			18.4 (8.4	1 + 10.0)			15.7 (6.2	2 + 9.5)			18.4 (8.4	4 + 10.0)		22.3 (9.8	+ 12.5)	
SHF			0.6	68			0.	76			0.6	58			0.	76		0.87			
Performance index	Heating		4.2	24			5.	02		4.07		4.86		86 4.75		75					
renormance muex	Cooling	ng 5.27		5.86		5.03		5.59		4.59											
Air flow range at SP3 and SP4			1050 - 22	250 m ³ /h		1050 - 2600 m ³ /h			1050 - 2250 m ³ /h		1050 - 2600 m ³ /h		ı		1750 - 28	380 m ³ /h					
Connectable outdoor unit PUHZ-ZRP10		ZRP100		PUHZ-ZRP100		PUHZ-ZRP100		PUHZ-ZRP100			PUHZ-Z	RP125									
Ext. piping		Diameter	r Liquid	/ Gas: 9.5	2 / 15.88	Diameter	r Liquid	/ Gas: 9.5	2 / 15.88	Diameter	Liquid	/ Gas: 9.5	2 / 15.88	Diameter	r Liquid	/ Gas: 9.	52 / 15.88	Diameter	Liquid	/ Gas: 9.50	2 / 15.88
		Maximum I	length: 75m,	Maximum	neight: 30m	Maximum I	length: 75m,	Maximum h	neight: 30m	Maximum le	ength: 75m,	Maximum I	eight: 30m	Maximum I	length: 75m,	, Maximum	height: 30m	Maximum I	ength: 75m,	Maximum h	eight: 30m
									s	A (Suppl	ly Air) te	mperati	ıre contr	ol							
Connectable Lossnay	y unit		LGH-15	0RVX-E		LGH-200RVX-E LGH-150RVXT-E				LGH-200	ORVXT-E			LGH-250)RVXT-E						
Capacity [kW]	Heating		16.6 (7.7 + 8.9)			19.5 (10.3 + 9.2)			16.3 (7.4 + 8.9)			19.5 (10.3 + 9.2)			21.6 (12.1 + 9.5)						
Capacity [KVV]	Cooling		13.4 (6.3	3 + 7.1)			15.9 (8.	5 + 7.4)			13.3 (6.2	2 + 7.1)			15.9 (8.	5 + 7.4)			17.6 (9.8	8 + 7.8)	
SHF			0.8	85			0.	0.90			0.86			0.90			0.95				
Performance index	Heating		5.4	46			6.	30			5.16 6.01						5.9	97			
1 enomiance muex	Cooling		5.3	32		5.85			5.03			5.54				5.3	31				
Air flow range at SP3 and SP4			1050 - 22	250 m ³ /h		1050 - 2600 m ³ /h			1050 - 2250 m ³ /h			1050 - 2600 m ³ /h				1000 - 26	300 m ³ /h				
Connectable outdoor unit			PUHZ-	ZRP71			PUHZ-	ZRP71			PUHZ-	ZRP71			PUHZ-	ZRP71			PUHZ-	ZRP71	
Ext. piping		Diameter	r Liquid	/ Gas: 9.5	2 / 15.88	Diameter	r Liquid	/ Gas: 9.5	2 / 15.88	Diameter	Liquid	/ Gas: 9.5	2 / 15.88	Diameter Liquid / Gas: 9.52 / 15.88		52 / 15.88	Diameter	Liquid	/ Gas: 9.50	2 / 15.88	
Maxim		Maximum I	length: 50m,	Maximum	neight: 30m	Maximum I	length: 50m,	Maximum h	neight: 30m	Maximum le	ength: 50m,	Maximum I	eight: 30m	Maximum I	length: 50m,	, Maximum	height: 30m	Maximum I	ength: 50m,	Maximum h	eight: 30m
										Vent	tilation s	pecifica	tions								
Connectable Lossnay unit			LGH-15				LGH-20				LGH-150					0RVXT-E			LGH-250		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Air Volume	[m ³ /h]	1,500	1,125	750	375	2,000	1,500	1,000	500	1,500	1,125	750	375	2,000	1,500	1,000	500	2,500	1,875	1,250	625
	[L/s]	417	313	208	104	556	417	278	139	417	313	208	104	556	417	278	139	694	521	347	174
External static pressure [Pa]		150	84	38	9	105	59	26	7	150	84	38	9	145	82	36	9	140	79	35	9

Characteristic Curves



Attention

- 1. The running current and input power are based on 230V/50Hz.
- The cooling and heating capacities are based on the air conditions listed below and the rated airflow of fan speed 4.
 Cooling Indoor: 27°CDB/19°CWB Outdoor: 35°CDB/24°CWB

Heating Indoor: 20°CDB/15°CWB Outdoor: 7°CDB/6°CWB

- 3. The first figure in () of the capacity specification is the heat recovery energy of the Lossnay unit. The second figure is the capacity specification for the Dx-coil connected to the outdoor unit.
- 4. "Performance index" is the calculated value at the temperature conditions above and is reference purpose only. Performance index = Total capacity ÷ total power consumption of outdoor unit and Lossnay unit
- 5. The external static pressure listed in the tables includes the static pressure loss of the Dx-coil unit when using a 50cm straight duct between the Lossnay and Dx-coil units. When the duct work between the Lossnay and Dx-coil units is longer and/or bent, the pressure loss of the duct work should be included in the pressure loss calculation.
- 6. The designed airflow of the system (Lossnay, Dx-coil and duct work) at fan speed 3 and 4 should be kept within "Airflow range at SP3 and SP4" listed in the tables. This range is shown as the solid line in graphs of the characteristics curve. If the Lossnay airflow is out of this range, the compressor of the outdoor unit may stop for self-protection purposes.
- 7. By installing the Dx-coil unit with a Lossnay unit, the air blow noise level is quieter at fan speed 4 Please refer to the "Direct Expansion coil unit for Lossnay" catalogue.
- 8. Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere.

This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

Residential Use Lossnay

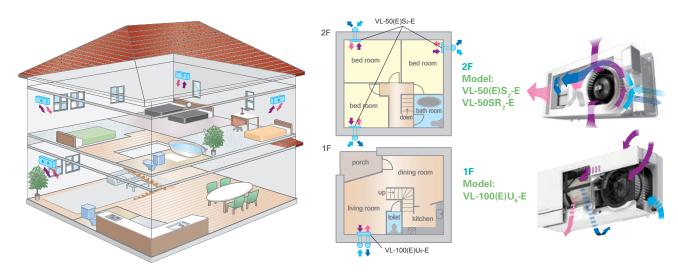
Mitsubishi Electric offers you decentralized ventilation and centralized ventilation solutions for optimising your indoor air quality by Lossnay.

Decentralized Ventilation Solution

Install the wall mounted Lossnay in each room.

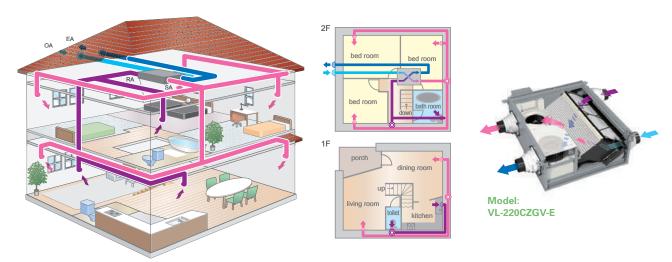
The heat recovery system provides fresh air at a comfortable air temperature.

Total heat exchangers effectively reduce heat loss.



Centralized Ventilation Solution

One Lossnay unit provides 24-hour ventilation for the entire house, from living room and bedrooms to the bathroom. The heat recovery system provides fresh air at a comfortable air temperature. Sensible heat exchanger effectively reduces excess humidity in the winter.



Decentralized ventilation: VL-50(E)S2-E, VL-50SR2-E and VL-100(E)U5-E

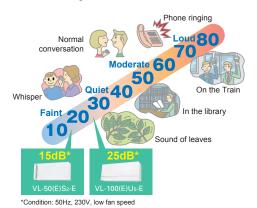
Product Merit

Air supplied and Exhausted Simultaneously

Supply and exhaust air simutaneously while transferring the heat.



The low noise level is good for bedrooms and children's rooms.



Product Features

Stylish Design

Match any interior décor to create a comfortable room.

Easy Maintenance

The only maintenance required is cleaning the outside-air filter and exhaust-air filter. Filters are easily accessible, making quick and thorough cleaning possible.

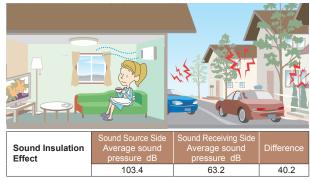
Energy Efficient

- Total heat exchanger minimizes heat loss.
- Achieve over 80%* temperature efficiency.

*VL-10D(E)U5-E at low fan speed in 230V 50Hz *VL-50(E)S2-E at low fan speed in 230V 50Hz

Sound Insulation

A sound insulation effect reduces noise generated outside.



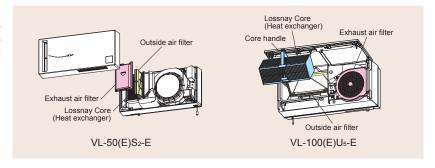
- *Tested based on VI -08S2-AF
- *Measured by average sound pressure level of more than 30dB in 500Hz according to JIS A1416.
- VL-08S₂-AE is Japanese dedicated model with equivalent of VL-50(E)S₂-E



VL-50(E)S₂-E VL-50SR₂-E

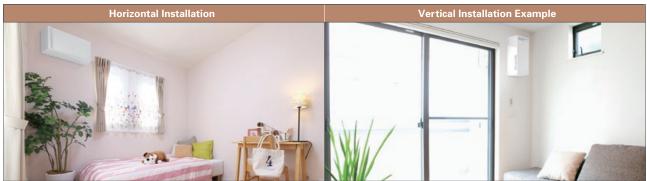


VL-100(E)U5-E



Flexible Installation for Only VL-50(E)S2-E and VL-50SR2-E

Not only horizontal installation but also vertical installation are available. It can fit various types of rooms with flexible installation.



Centralized ventilation: VL-220CZGV-E

Product Merit

Newly Developed Heat Exchanger

- During ventilation, Lossnay recovers warmth in the winter and keeps air cool in the summer.
- Reducing heating and cooling loads with a maximum exchange efficiency of 86%*.





Energy Efficient

- The highest energy-saving performance in its class.
 (8.5W* minimum input power)
- Saves heating and cooling costs by minimizing energy loss that occurs during ventilation.



Quiet

- At an ultra quiet 14dB*, it is the quietest product in its class.
- Blocks outside noise for a more comfortable environment.
- *Fan speed 1



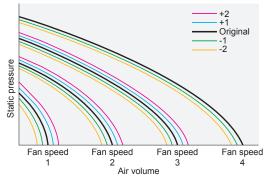
Product Features

Fan Speed Precise Adjustment Function

Each main fan speed value can be further adjusted slightly. Use the PZ-61DR-E remote controller to adjust the speed.

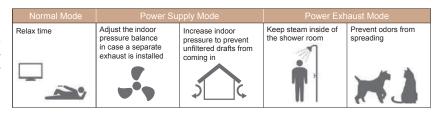
- 1) Considering the total hours of Lossnay opertaion (filter clogging), the fan power can be adjusted automatically after a given period of time.
- 2) After the unit is installed, when if the air volume is slightly lower or higher than the desired air flow, it is possible to make a fine adjustments. (Fan speed 4 is available only 1 down and 2 down)

■ P-Q curve image



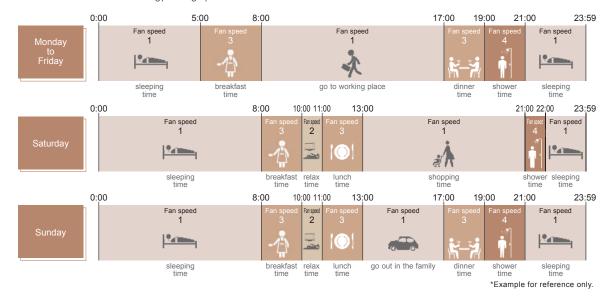
Multi Ventilation (Power Supply and Exhausted) Mode

This mode allows the air supply/ exhaust balance to be varied dynamically. The supply/ exhaust balance can be selected to suit the usage environment.



Weekly Timer

Operation patterns for each day of the week. ON/OFF and airflow can be set using the weekly timer function (up to eight zones per day). This function contributes to enhanced energy-saving operation.



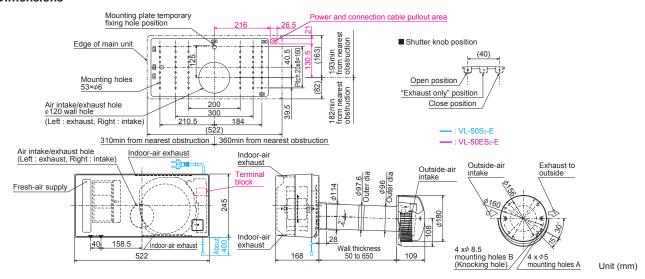
Residential Lossnay Specifications

Model: VL-50S₂-E (Pull-Switch Model), VL-50ES₂-E (Wall-Switch Model)

Model			VL-50(E)S₂-E					
Electrical power supply	220V	/50Hz	230V/50Hz		240V/50Hz		220V/60Hz	
Fan speed	High	Low	High	Low	High	Low	High	Low
Air volume (m³/h)	51	15	52.5	16	54	17	54	17
Power consumption (W)	19	4	20	4.5	21	5	21	5.5
Temperature exchange efficiency (%)	70	86	69	85	68	84	68	84
Noise level (dB)	36.5	14	37	15	37.5	15.5	37.5	15.5
Weight (kg)	6.2							
Specific energy consumption class	C							

^{*}Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628) on shutter knob open position.

Dimensions

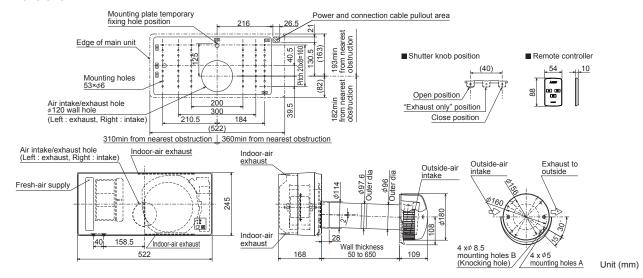


Model: VL-50SR₂-E (Remote Controller Model)

Model	VL-50SR₂-E							
Electrical power supply	220V	220V/50Hz		230V/50Hz		240V/50Hz		/60Hz
Fan speed	High	Low	High	Low	High	Low	High	Low
Air volume (m³/h)	51	15	52.5	16	54	17	54	17
Power consumption (W)	19	4.5	20	5	21	5.5	21	6
Temperature exchange efficiency (%)	70	86	69	85	68	84	68	84
Noise level (dB)	36.5	14	37	15	37.5	15.5	37.5	15.5
Weight (kg)	6.2							
Specific energy consumption class	С							

^{*}Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628) on shutter knob open position.

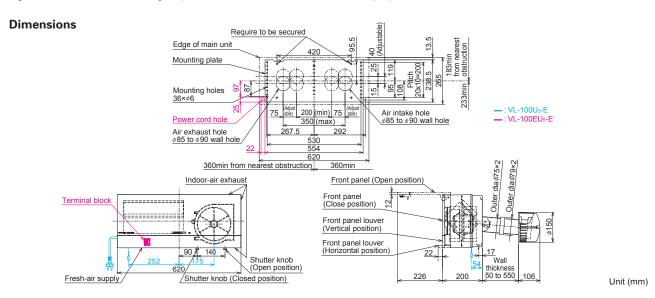
Dimensions



Model: VL-100U5-E (Pull-Switch Model), VL-100EU5-E (Wall-Switch Model)

Model	VL-100(E)U₅-E								
Electrical power supply	220V/50Hz		230V/50Hz		240V/50Hz		220V/60Hz		
Fan speed	High	Low	High	Low	High	Low	High	Low	
Air volume (m³/h)	100	55	105	60	106	61	103	57	
Power consumption (W)	30	13	31	15	34	17	34	17	
Temperature exchange efficiency (%)	73	80	73	80	72	79	73	80	
Noise level (dB)	36.5	24	37	25	38	27	38	25	
Weight (kg)	7.5								
Specific energy consumption class				E	3				

^{*}Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628) on shutter knob open position.



Model: VL-220CZGV-E

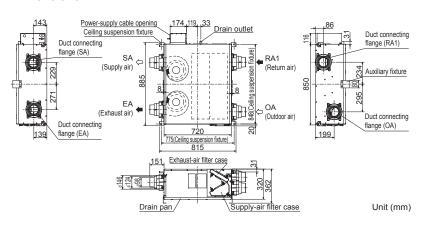
Model		VL-220CZGV-E						
Electrical power supply			220-240V/50I	Hz 220V/60Hz				
Ventilation mode			Heat reco	very mode				
Fan speed		Fan speed 4	Fan speed 3	Fan speed 2	Fan speed 1			
Running current		0.60	0.29	0.18	0.11			
Input power (W)		80	35	18.5	8.5			
A in continuous	(m³/h)	230	165	120	65			
Air volume	(L/s)	64	46	33	18			
External static pressure (Pa)		164	84	44	13			
Temperature exchange efficiency (%)		82	84	85	86			
Noise level (dB)		31 25 19		14				
Weight (kg)		31						
Specific energy consumption class		A						

^{*}Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

Characteristic Curve

φ125mm dia straight pipe length 90 φ125mm dia straight pipe length 90 γ0 25mm 80 %

Dimensions



Accessories

Optional Parts for VL-50(E)S₂-E and VL-50SR₂-E

Filter, Extension Pipe and Stainless Hood

Туре	High Efficiency Filter	Replacement Filter	Extension Pipe	Joint	Stainless Hood
Design					
Model	P-50HF ₂ -E	P-50F ₂ -E	P-50P-E	P-50PJ-E	P-50VSQ5-E
Feature	Upgrated high-performance filter.	Standard grade replacement filter.	Total length when connected to the joint is 350mm.	Joint for extension pipe	Stylish stainless hood

Optional Parts for VL-100(E)U₅-E

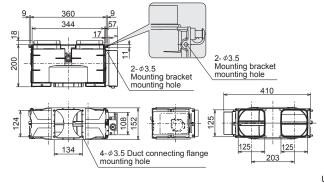
Filter and Extension Pipe

Type	High Efficiency Filter	Replacement Filter	Extension Pipe	Joint
Design				
Model	P-100HF₅-E	P-100F ₅ -E	P-100P-E	P-100PJ-E
Feature	Upgrated high-performance filter.	Standard grade replacement filter.	Total length when connected to the joint is 300mm.	Joint for extension pipe Screw-in method

Optional Parts for VL-220CZGV-E

Bypass damper Model: P-133DUE-E





Unit (mm)

Filter

Type	High Efficiency Supply Air Filter	Medium Efficiency Exhaust Air Filter	Standard Replacement Filter
Design			
Model	P-220SHF-E	P-220EMF-E	P-220F-E
Classification (EN779:2012)	M6	G4	G3



⚠ NOTICE

- 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.



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

MITSUBISHI ELECTRIC CORPORATION

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