



SPLIT-TYPE AIR CONDITIONERS

Changes for the Better



SPLIT-TYPE AIR CONDITIONERS Full Product Line Catalogue 2019

mitsubishi electric corporation



- 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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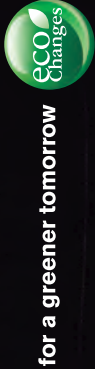


S-179-9-CA316-A S11903 Printed in Japan (JP)

New publication, effective Mar. 2019.
Specifications are subject to change without notice.

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

Full Product Line Catalogue 2019



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.

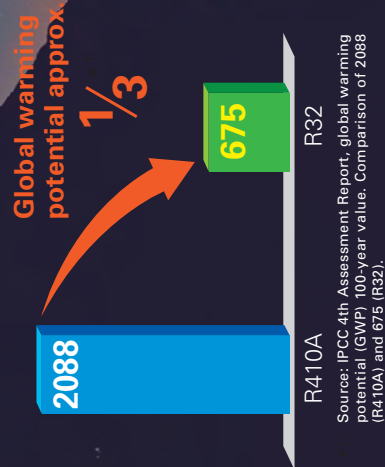
Environmental Vision 2021



The New Refrigerant R32

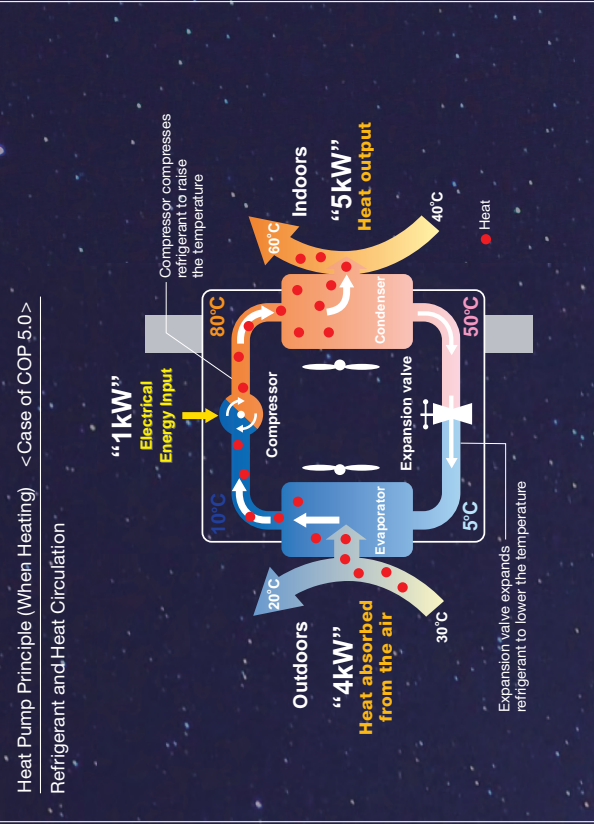
The new R32 refrigerant has a global warming potential approximately 1/3¹ that of our current refrigerant, R410A; thereby dramatically reducing the negative impact more than ever. Actively introducing the new R32 refrigerant to suppress global warming, Mitsubishi Electric continues to promote manufacturing while considering the environment.

Comparison of Global Warming Potential



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

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



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

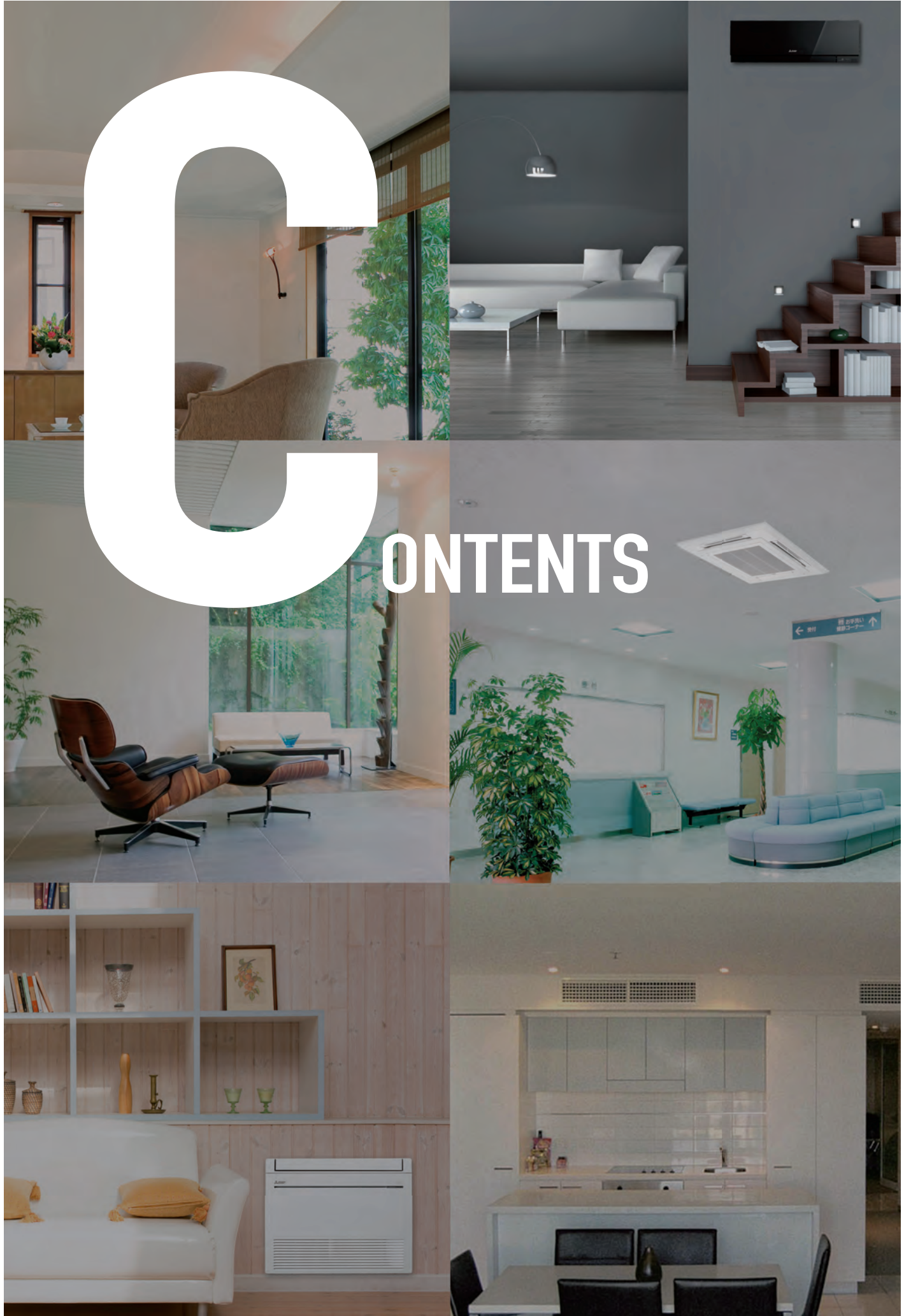
	Comfort	Ecology
1. Inverter	Faster start-up and more stable indoor temperature than non-inverter units.	Fewer On/Off operations than with non-inverter, saving energy.
2. 3D I-see Sensor	Since the positions of people can be detected, airflow can be set to personal taste, such as in airflow path or protected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

Creating a Recycling-Based Society

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

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New releases in 2019

M SERIES

S SERIES

P SERIES

MXZ SERIES

ATW SERIES

Control

M SERIES



MSZ-EF (R32 single) **R32**
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MSY-TP **R32**
P.35



MSZ-HR **R32**
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S SERIES



SUZ-M25/35VA **R32**
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SUZ-M50VA **R32**
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SUZ-M60/71VA **R32**
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P SERIES



PUZ-M100/125/140V(Y)KA **R32**
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4-way ceiling-cassette **R32** **R410A**
PLA-M EA
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MXZ SERIES



MXZ-HA (Lo-std) **R32**
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MXZ-HA (Lo-std) **R32**
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ATW SERIES



PUHZ-W60VAA **R32**
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Control



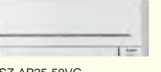

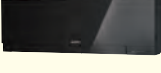



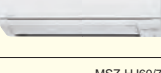






PAR-40MAA
P.175

LINE-UP

M SERIES

INVERTER Models

Model Name		1.5kW	1.8kW	2.0kW	2.2kW	2.5kW	3.5kW	4.2kW	5.0kW	6.0kW	7.1kW	Page
		1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	
Wall-mounted	MSZ-L Series  R32 R410A *1		WVRB Multi connection only			WVRB SINGLE	WVRB SINGLE		WVRB SINGLE	WVRB SINGLE		13
	MSZ-A Series  R32 R410A *1	Multi connection only		Multi connection only								19
	MSZ-AP15-20VF  MSZ-AP25-50VG					SINGLE H	SINGLE H	SINGLE H	SINGLE H			19
	MSZ-F Series  R410A					SINGLE	SINGLE		SINGLE			25
	MSZ-E Series  R32 R410A *1		WSB Multi connection only		WSB Multi connection only	WSB SINGLE H	WSB SINGLE H	WSB SINGLE	WSB SINGLE			27
	MSZ-S Series  R410A	Multi connection only		Multi connection only								29
	MSZ-SF15/20VA  MSZ-SF25/35/42/50VE3					SINGLE H	SINGLE H	SINGLE H	SINGLE H			29
	MSZ-G Series  R410A									SINGLE	SINGLE	29
	MSZ-W Series  R410A					SINGLE	SINGLE					33
	MSZ-HR Series  R32					SINGLE	SINGLE	SINGLE	SINGLE			41
	MSZ-D Series  R410A					SINGLE	SINGLE					37
	MSZ-H Series  MSZ-HJ60/71 MSZ-HJ25/35/50					SINGLE	SINGLE		SINGLE	SINGLE	SINGLE	39
	MSY-TP Series  R32						SINGLE		SINGLE			35
Compact floor	MFZ Series  R410A					SINGLE	SINGLE		SINGLE			43
1-way cassette	MLZ Series  R32					SINGLE	SINGLE		SINGLE			45



*1: R410A is for Multi connection.
H : Outdoor unit with freeze-prevention heater is available.
W-S-B: Indoor units are available in three colours; White, Black and Silver.
W-V-R-B: Indoor units are available in four colours; Natural White, Pearl White, Ruby Red, and Onyx Black.

Indoor Combinations

- SINGLE** 1 outdoor unit & 1 indoor unit
- TWIN** 1 outdoor unit & 2 indoor units
- TRIPLE** 1 outdoor unit & 3 indoor units
- QUADRUPLE** 1 outdoor unit & 4 indoor units

S SERIES

INVERTER Models





Model Name			1.5kW	2.5kW	3.5kW	5.0kW	6.0kW	7.1kW	10.0kW	12.5kW	14.0kW	Page
			1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1- & 3-phase	1- & 3-phase	1- & 3-phase	
2 x 2 cassette	SLZ Series R32 R410A		Multi connection only	SINGLE	SINGLE	SINGLE	SINGLE	TWIN *1	TWIN *1 TRIPLE *1	TWIN *1 TRIPLE *1 QUADRUPLE *1	TRIPLE *1 QUADRUPLE *1	53
Compact ceiling-concealed	SEZ Series R32 R410A			SINGLE *2	SINGLE *2	SINGLE *2	SINGLE *2	SINGLE *2				59

*1 Only for R410A connection

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






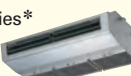

P SERIES

R32 Power Inverter Models / R32 Standard Inverter Models

Model Name		3.5kW	5.0kW	6.0kW	7.1kW	10.0kW	12.5kW	14.0kW	Page
		1-phase	1-phase	1-phase	1-phase	1- & 3-phase	1- & 3-phase	1- & 3-phase	
4-way cassette	PLA Series R32 	SINGLE	SINGLE	SINGLE	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	65
Ceiling-concealed	PEAD Series R32 	SINGLE	SINGLE	SINGLE	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	74
Wall-mounted	PKA Series R32 	SINGLE *	SINGLE *	SINGLE *	SINGLE * TWIN *	SINGLE TWIN	TWIN	TWIN TRIPLE	81
Ceiling-suspended	PCA-KA Series R32 	SINGLE	SINGLE	SINGLE	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	86

* R32 Power Inverter Model only

R410A POWER INVERTER Models / R410A STANDARD INVERTER Models










Model Name		3.5kW	5.0kW	6.0kW	7.1kW	10.0kW	12.5kW	14.0kW	20.0kW	25.0kW	Page
		1-phase	1-phase	1-phase	1-phase	1- & 3-phase	1- & 3-phase	1- & 3-phase	3-phase	3-phase	
4-way cassette	PLA Series R410A 	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	65
Ceiling-concealed	PEAD Series R410A 	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	74
	PEA Series R410A 								SINGLE	SINGLE	79
Wall-mounted	PKA Series R410A 	SINGLE *	SINGLE *	SINGLE *	SINGLE * TWIN *	SINGLE TWIN	TWIN	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	TRIPLE QUADRUPLE	81
Ceiling-suspended	PCA-KA Series R410A 	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	86
for Professional Kitchen	PCA-HA Series* R410A 				SINGLE *			TWIN *		TRIPLE *	87
Floor-standing	PSA Series R410A 				SINGLE *	SINGLE	SINGLE	SINGLE TWIN	TWIN	TWIN TRIPLE	93








* Power Inverter Models only

LINE-UP

MXZ SERIES

INVERTER Models

Model Name	Capacity Class	Page
up to 2 indoor units MXZ-2F33VF R32 	3.3kW <1-phase>	99
up to 2 indoor units MXZ-2F42VF R32 	4.2kW <1-phase>	99
up to 2 indoor units MXZ-2F53VF(H) R32 	5.3kW <1-phase>	99
up to 3 indoor units MXZ-3F54VF R32 	5.4kW <1-phase>	99
up to 3 indoor units MXZ-3F68VF R32 	6.8kW <1-phase>	99
up to 4 indoor units MXZ-4F72VF R32 	7.2kW <1-phase>	99
up to 2 indoor units MXZ-2HA40VF R32 	4.0kW <1-phase>	103
up to 2 indoor units MXZ-2HA50VF R32 	5.0kW <1-phase>	103
up to 3 indoor units MXZ-3HA50VF R32 	5.0kW <1-phase>	103

Model Name	Capacity Class	Page
up to 2 indoor units MXZ-2D33VA R410A 	3.3kW <1-phase>	101
up to 2 indoor units MXZ-2D42VA2 R410A	4.2kW <1-phase>	101
up to 2 indoor units MXZ-2D53VA (H)2 R410A	5.3kW <1-phase>	101
up to 3 indoor units MXZ-3E54VA R410A	5.4kW <1-phase>	101
up to 3 indoor units MXZ-3E68VA R410A 	6.8kW <1-phase>	101
up to 4 indoor units MXZ-4E72VA R410A	7.2kW <1-phase>	101
up to 4 indoor units MXZ-4E83VA R410A 	8.3kW <1-phase>	101
up to 5 indoor units MXZ-5E102VA R410A 	10.2kW <1-phase>	101
up to 6 indoor units MXZ-6D122VA R410A 	12.2kW <1-phase>	101
up to 2 indoor units MXZ-2DM40VA R410A 	4.0kW <1-phase>	105
up to 3 indoor units MXZ-3DM50VA R410A 	5.0kW <1-phase>	105

PUMY SERIES




INVERTER Models

Model Name	12.5kW	14.0kW	15.5kW	22.4kW	Page
	1 & 3-phase	1 & 3-phase	1 & 3-phase	3-phase	
PUMY-SP R410A 	✓	✓	✓		107
PUMY-P R410A 	✓	✓	✓	✓	109

- Indoor Combinations**
- SINGLE** 1 outdoor unit & 1 indoor unit
 - TWIN** 1 outdoor unit & 2 indoor units
 - TRIPLE** 1 outdoor unit & 3 indoor units
 - QUADRUPLE** 1 outdoor unit & 4 indoor units






















POWERFUL HEATING SERIES

INVERTER Models

Model Name		2.5kW	3.5kW	5.0kW	5.3kW	8.3kW	10.0kW	12.5kW	Page
		1-phase	1-phase	1-phase	1-phase	1-phase	1- & 3-phase	3-phase	
Wall-mounted	MSZ-L VGHZ Series R32 R410A * 	SINGLE H	SINGLE H	SINGLE H					117
	MSZ-F VEHZ Series R410A 	SINGLE H	SINGLE H	SINGLE H					117
Compact floor		MFZ VEHZ Series R410A 	SINGLE H	SINGLE H	SINGLE H				121
ZUBADAN 	4-way cassette R32 R410A 						SINGLE TWIN	SINGLE TWIN	124
	Ceiling-concealed R32 R410A 						SINGLE TWIN	SINGLE TWIN	126
	Wall-mounted R32 R410A 						SINGLE TWIN		127
Multi split		MXZ-E VAHZ Series R410A 			2PORT H	4PORT H			128

* R410A is for Multi connection. H: Freeze-prevention heater is included as standard equipment.

AIR TO WATER SERIES

INDOOR UNIT		OUTDOOR UNIT					
Hydro box, cylinder unit		Packaged type	Small capacity (Under 5kW)*	Medium capacity (7.5kW-14kW)*	Large capacity (≥16kW)*		
				 PUHZ-HW112/140			
			 PUHZ-W50	<div>Coming soon</div>  形名? PUHZ-W50	 PUHZ-W112		
		Split type	Small capacity (Under 5kW)*	Medium capacity (7.5kW-14kW)*	Large capacity (≥16kW)*		
				<div>NEW</div>  PUHZ-SHW50/112AA	 PUHZ-SHW80/112/140	 PUHZ-SHW230	
			 PUHZ-SW50	 PUHZ-SW75	<div>NEW</div>  PUHZ-SW75/100AA	 PUHZ-SW100/120	 PUHZ-SW160/200
		Eco Inverter	 SUHZ-SW45				
		ATA/ATW Hybrid system	Small capacity (Under 5kW)*	Medium capacity (7.5kW-14kW)*	Large capacity (≥16kW)*		
		Mr.SLIM+		 PUHZ-FRP71			
		PUMY + ecodan			 PUMY-P112/125/140		

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



M SERIES



SELECTION

Choose the model that best matches room conditions.

SELECT SERIES		
A multiple series line-up to choose from, each with various outstanding features. In addition to inverter-equipped models, constant-speed, floor-standing and cassette models can be selected. Choose the best series to match usage needs.		
Wall-mounted Units		
<div>MSZ-L SERIES R32 R410A *1</div> <div></div> <div>25/35/50 25/35 SEER SCOP A+++ A+++ MXZ connection</div>	<div>MSZ-A SERIES R32 R410A *1</div> <div>MSZ-AP25-50VG</div> <div></div> <div>MSZ-AP15-20VF 25/35 25-50 SEER SCOP A+++ A++ MXZ connection</div>	<div>MSZ-F SERIES R410A</div> <div></div> <div>25/35 25/35 SEER SCOP A+++ A+++ MXZ connection</div>
<div>MSZ-E SERIES R32 R410A *1</div> <div></div> <div>25/35 25/35 SEER SCOP A+++ A++ MXZ connection</div>	<div>MSZ-S SERIES R410A</div> <div>MSZ-SF25-50VE</div> <div></div> <div>MSZ-SF15/20VA 25/35 25-50 SEER SCOP A++ A+ MXZ connection</div>	<div>MSZ-G SERIES R410A</div> <div></div> <div>25/35 25/35 SEER SCOP A++ A+ MXZ connection</div>
<div>MSZ-W SERIES R410A</div> <div></div> <div>SEER SCOP A++ A+</div>	<div>MSZ-HR SERIES R32</div> <div></div> <div>SEER SCOP A++ A+ MXZ connection</div>	<div>MSZ-D SERIES R410A</div> <div></div> <div>SEER SCOP A++ A+ MXZ connection</div>
<div>MSZ-H SERIES R410A MSZ-HJ60/71</div> <div></div> <div>MSZ-HJ25/35/50 50/60/71 50/60/71 SEER SCOP A A MXZ connection</div>	<div>MSY-TP SERIES R32</div> <div></div> <div>35 SEER A+++</div>	
Floor-standing		Cassette Units
<div>MFZ SERIES R410A</div> <div></div> <div>25 SEER SCOP A+++ A+ MXZ connection</div>	<div>MLZ SERIES R32</div> <div></div> <div>MXZ connection</div>	<div>SEER SCOP A A</div> Energy Rank <div>MXZ connection</div> Compatible for connection to MXZ Series system <div>R32</div> R32 Refrigerant <div>R410A</div> R410A Refrigerant <div>*1 R410 is for multi connection.</div>

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.		
<div>Heater Installed</div> <div>MUZ-AP25/35/42/50VGH MUZ-EF25/35VGH MUZ-SF25/35/42/50VEH</div> <div></div> <div>MUZ-LN25/35VG</div>	<div>Hyper Heating</div> <div>MUZ-LN25/35/50VGHZ MUZ-FH25/35/50VEHZ MUZ-KJ25/35/50VEHZ</div> <div></div> <div>MUZ-LN50VG</div>	<div>Selecting a Heater-equipped Model</div> <div>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.</div>

MSZ-L SERIES

R32
Single / Multi
R410A
Multi

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



GOOD DESIGN AWARD 2016
BEST 100

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



Luminous and Luxurious Design

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



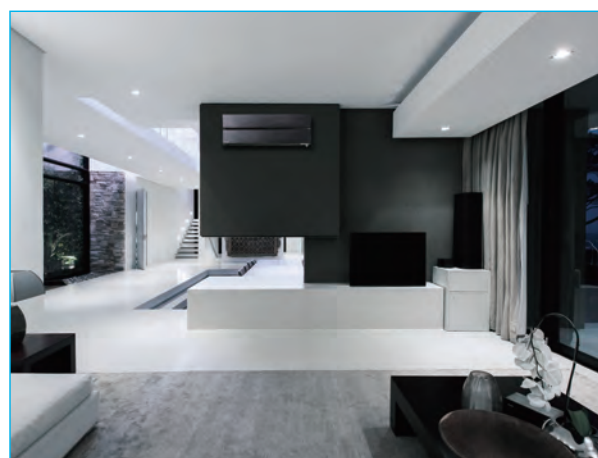
Master craftsmanship painting technology has resulted in a refined design, giving the finish deep colour and a premium quality feel.



Pearl White blends in with any interior.



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



Onyx Black matches darker interiors, creating a comfortable environment.

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



Pearl White

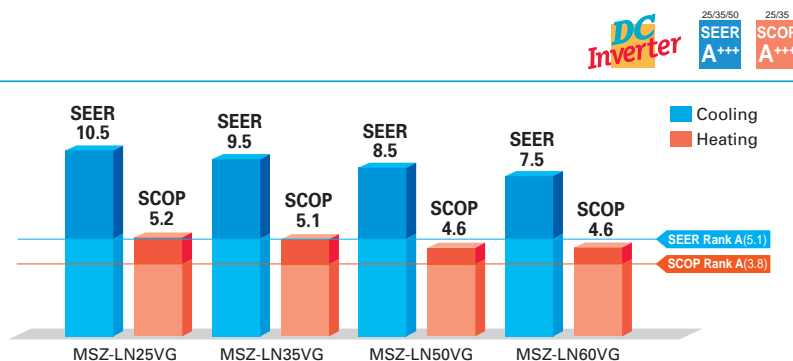
Ruby Red

Onyx Black

Natural White

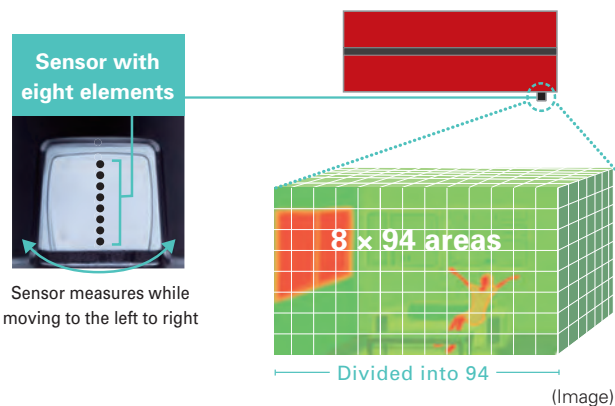
High Energy Efficiency

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.



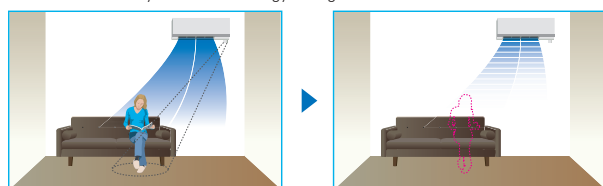
3D i-see Sensor

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

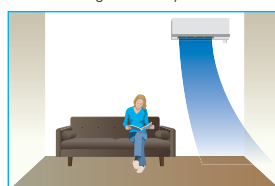
The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.



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.

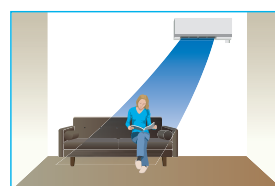
Indirect Airflow

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.



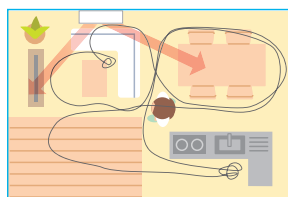
Direct Airflow

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



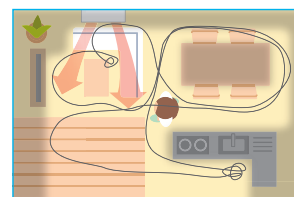
Even Airflow *LN Series only

Normal swing mode



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

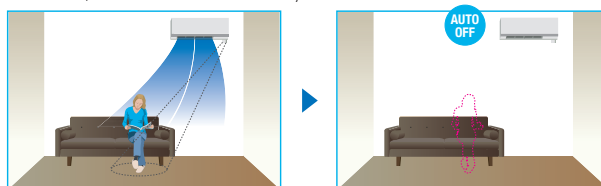
Even airflow mode



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

No occupancy Auto-OFF mode *LN Series only

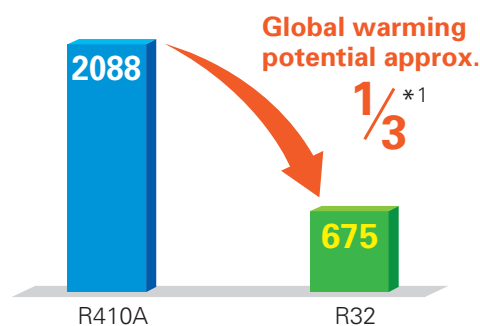
The sensors detect whether or not there are people in the room. When there is no one in the room, the unit turns off automatically.



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

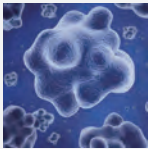


*1: Source: IPCC 4th Assessment Report, global warming potential (GWP) 100-year value. Comparison of 2088(R410A) and 675 (R32).

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.

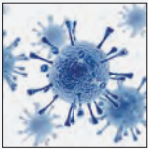
Bacteria



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

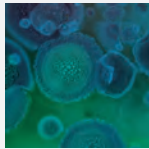
Viruses



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

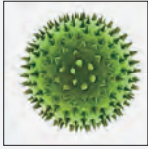
Molds



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

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


Allergens



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

<Test No.> ITEA Report No. T1606028


PM2.5



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

<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

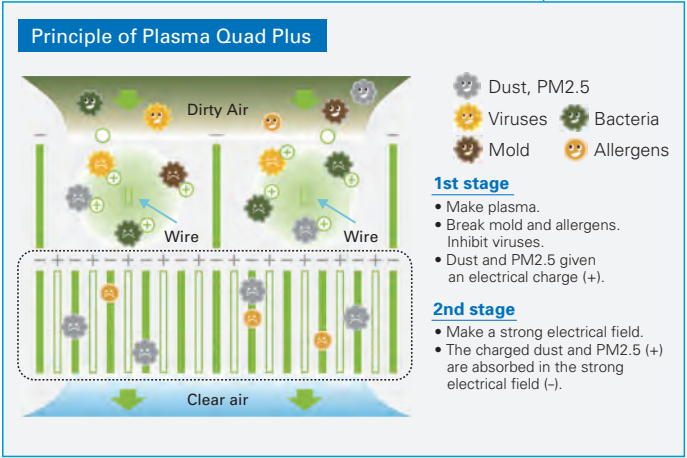
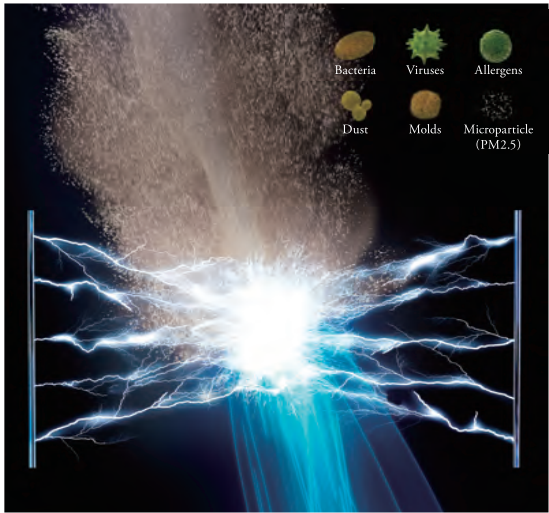
Model	Name	Method	Bacteria	Viruses	Molds	Allergens	Dust	PM2.5*
FH Series	Plasma Quad	One-Stage Plasma	A	A	B	B	C	
LN Series	Plasma Quad Plus	Two-Stage Plasma	A	A	A	A	A	A

A: Highly effective
B: Effective
C: Partially effective

*PM2.5:
Particles smaller than 2.5μm

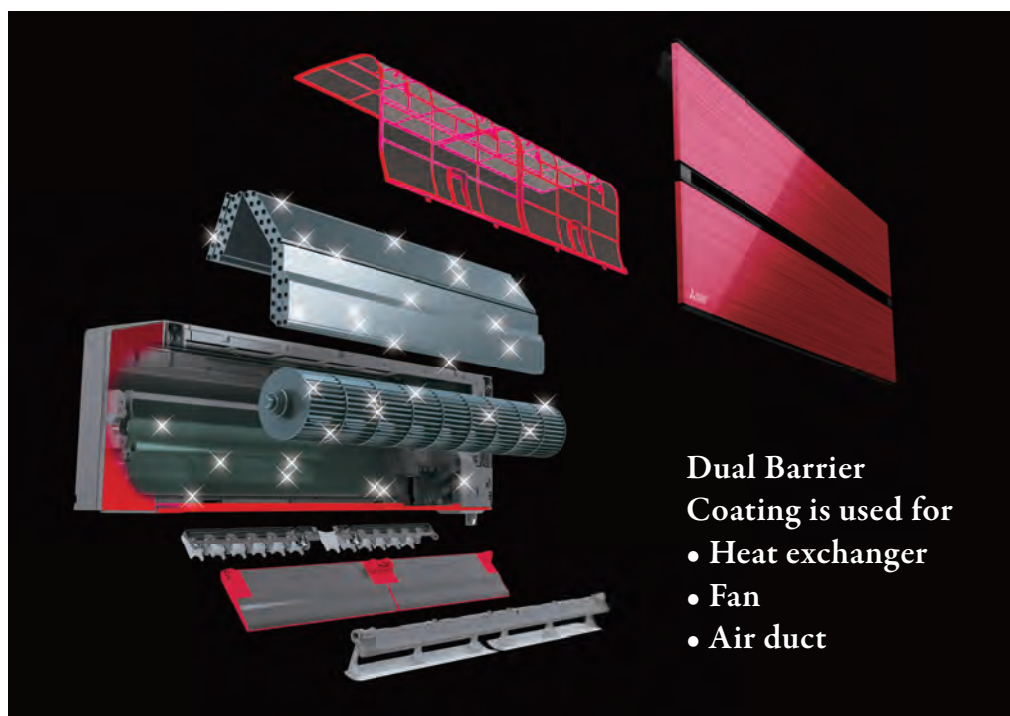


Image of Plasma Quad Plus



Dual Barrier Coating

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

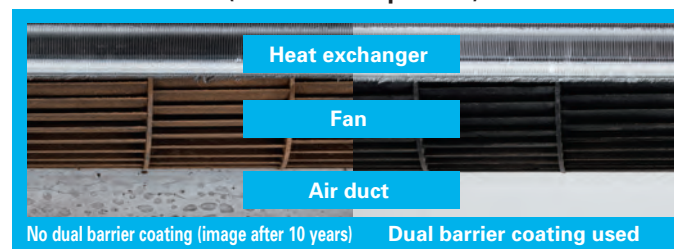


State-of-the-art coating technology

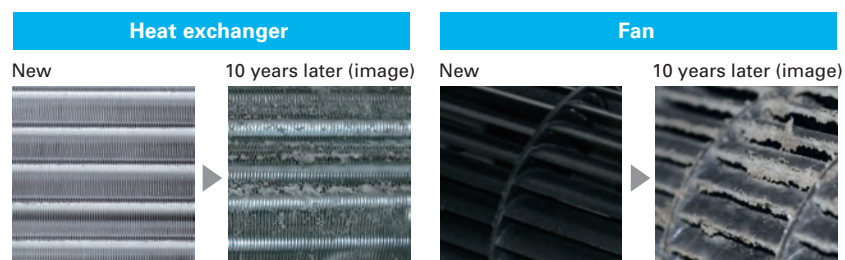
Dirt is generally classified into two groups: hydrophilic dirt such as fiber dust and sand dust, and hydrophobic dirt such as oil and cigarette smoke. Mitsubishi Electric's dual barrier coating works as a two-barrier coating with blended "fluorine particles" that prevent hydrophilic dirt penetration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



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



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



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

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

Double Flap

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

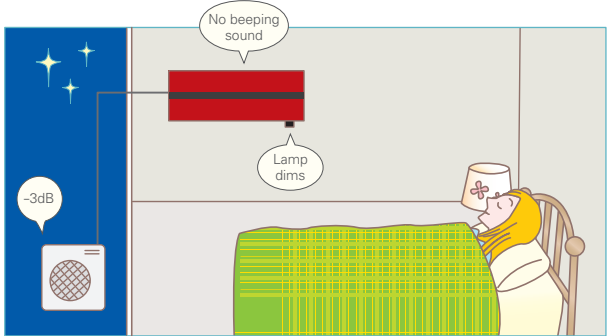


Night Mode

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

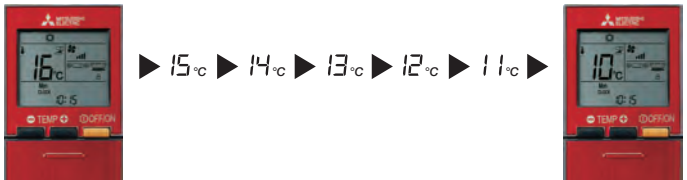
- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will drop to 3dB lower than the rated operating noise specification.

*The cooling/heating capacity may drop.



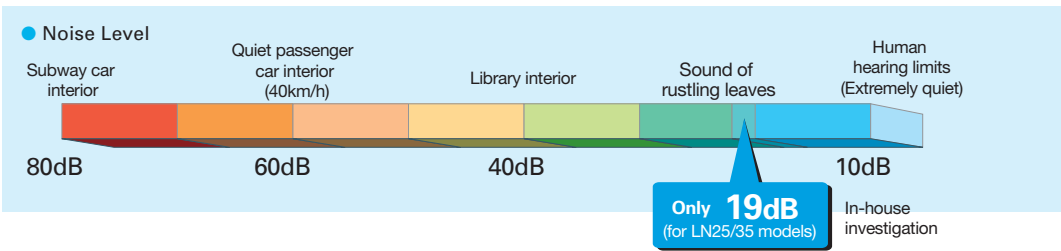
10°C Heating

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.



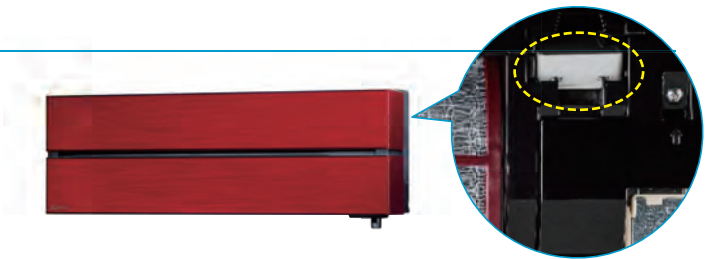
Quiet Operation

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.



MSZ-L SERIES



Indoor Unit / Remote Controller

R32

R410A

GOOD DESIGN AWARD 2016
BEST 100

<Pearl White>



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

<Ruby Red>



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

<Natural White>



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

<Onyx Black>



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

Outdoor Unit

R32



MUZ-LN25/35VG



MUZ-LN50VG



MUZ-LN60VG



Type				Inverter Heat Pump				
Indoor Unit				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
Refrigerant				Single: R32 ⁽¹⁾ / Multi: R410A or R32 ⁽¹⁾				
Power Supply				Outdoor Power Supply				
Source				230 / Single / 50				
Outdoor (V / Phase / Hz)								
Cooling	Design load		kW	—	2.5	3.5	5.0	6.1
	Annual electricity consumption ⁽²⁾		kWh/a	—	83	128	205	285
	SEER ⁽⁴⁾			—	10.5	9.5	8.5	7.5
	Energy efficiency class			—	A+++	A+++	A+++	A++
	Capacity	Rated	kW	—	2.5	3.5	5.0	6.1
		Min-Max	kW	—	1.0 - 3.5	0.8 - 4.0	1.0 - 6.0	1.4 - 6.9
Total Input		Rated	kW	—	0.485	0.820	1.380	1.790
Heating (Average Season) ⁽⁵⁾	Design load		kW	—	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	6.0(-10°C)
	Declared Capacity	at reference design temperature	kW	—	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	6.0(-10°C)
		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)
	Back up heating capacity		kW	—	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)
	Annual electricity consumption ⁽²⁾		kWh/a	—	794	974	1369	1826
	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
		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
Operating Current (Max)				A	7.1	9.9	13.9	15.2
Indoor Unit	Input		Rated	kW	0.029	0.029	0.034	0.040
	Operating Current(Max)			A	0.3	0.3	0.4	0.4
	Dimensions			H*W*D	mm	307-890-233	307-890-233	307-890-233
	Weight			kg	15.5	15.5	15.5	15.5
	Air Volume (SLo-Lo-Mid-Hi-SH ⁽³⁾ Dry/Well)	Cooling	m ³ /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
		Heating	m ³ /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) (SLo-Lo-Mid-Hi-SH ⁽³⁾)	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	27 - 31 - 35 - 39 - 46	29 - 37 - 41 - 45 - 49
		Heating	dB(A)	19 - 24 - 29 - 36 - 45	19 - 24 - 29 - 36 - 45	19 - 24 - 29 - 36 - 45	25 - 29 - 34 - 39 - 47	29 - 37 - 41 - 45 - 49
Outdoor Unit	Sound Level (PWL)		Cooling	dB(A)	58	58	60	65
	Dimensions			H*W*D	mm	—	550-800-285	550-800-285
	Weight			kg	—	35	35	40
	Air Volume	Cooling	m ³ /min	—	31.4	31.4	40.0	50.1
		Heating	m ³ /min	—	26.6	31.4	40.5	51.3
	Sound Level (SPL)	Cooling	dB(A)	—	46	49	51	55
		Heating	dB(A)	—	49	50	54	55
	Sound Level (PWL)	Cooling	dB(A)	—	60	61	64	65
		Operating Current (Max)			A	—	6.8	9.6
	Breaker Size			A	—	10	10	16
Ext. Piping	Diameter		Liquid/Gas	mm	—	6.35/9.52	6.35/9.52	6.35/12.7
	Max.Length		Out-In	m	—	20	20	30
	Max.Height		Out-In	m	—	12	12	15
Guaranteed Operating Range (Outdoor)				Cooling	°C	—	-10 ~ +46	-10 ~ +46
				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 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

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

(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 00 for heating (warmer season) specifications.

MSZ-A SERIES

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



MSZ-AP15/20VF



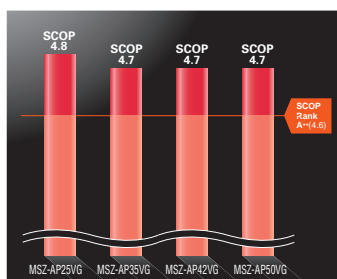
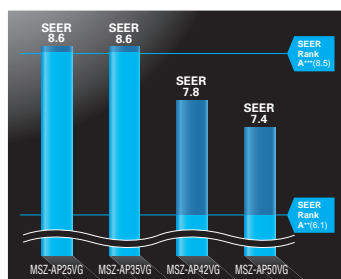
MSZ-AP25/35/42/50VG



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.

■ Living



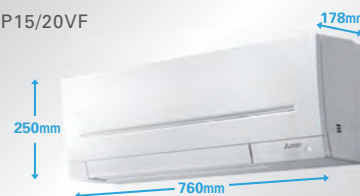
■ Study



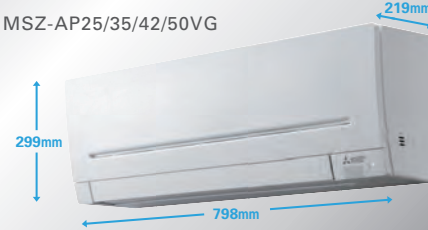
■ Bedroom



MSZ-AP15/20VF



MSZ-AP25/35/42/50VG



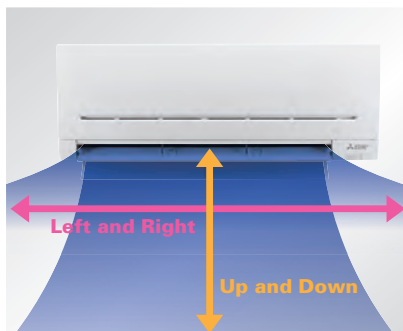
Evolved comfortable convenience function

Horizontal Airflow



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

Auto Vane Control



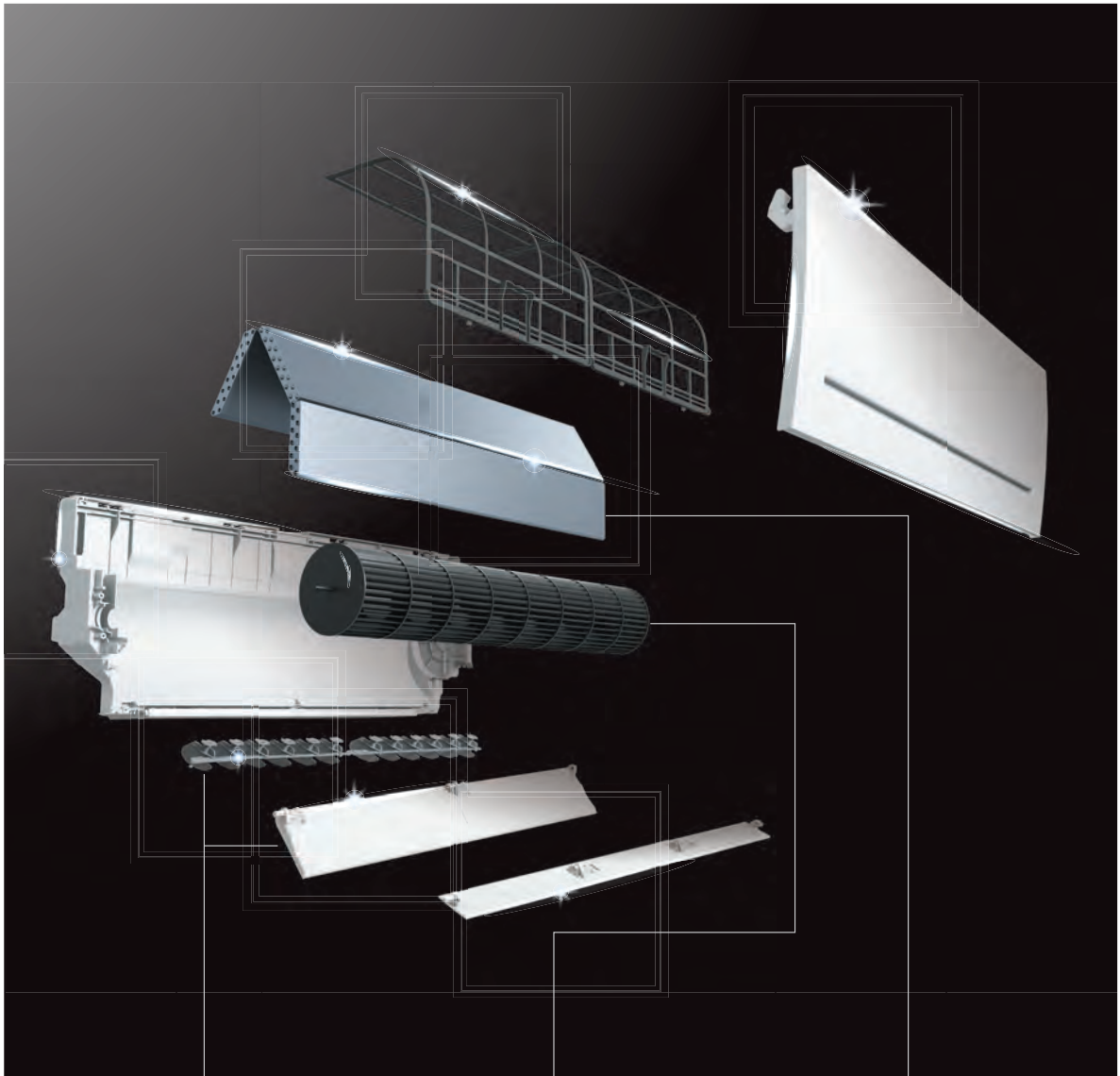
Auto vanes can be moved left and right, and up and down using the remote controller.

The Function



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

High performance and compact size are realised by refining all parts



Comfort

Vertical and Horizontal Vane

New vertical and horizontal vanes are double the size of the previous model, improving airflow control elaborately.

175% larger

204% larger

High Performance

Line Flow Fan

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

122% larger

108% larger

High Performance

Heat Exchanger

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

32% Thinner

“Weekly Timer”

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.
6:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
8:00	Automatically changes to high-power operation at wake-up time						
10:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00	Automatically turned off during work hours					Midday is warmer, so the temperature is set lower	
14:00							
16:00							
18:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
20:00	Automatically turns on, synchronized with arrival at home					Automatically raises temperature setting to match time when outside-air temperature is low	
22:00							
(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						

Settings **Pattern Settings:** Input up to four settings for each day
Settings: •Start/Stop operation •Temperature setting *The operation mode cannot be set.

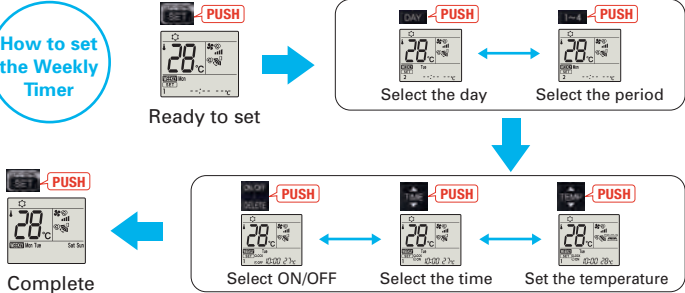
■ Easy set-up using dedicated buttons



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



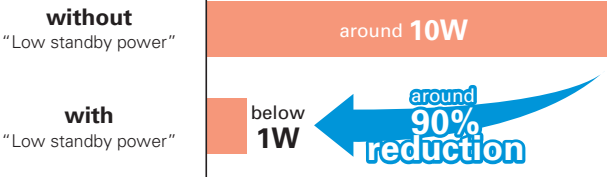
How to set
the Weekly
Timer



- 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

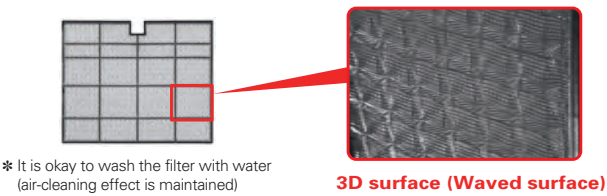
Electrical devices consume standby power even when they are not in actual use. While we obviously strive to reduce power consumption during actual use, reducing this wasted power that cannot be seen is also very important.



Air Purifying Filter

(MSZ-AP25/35/42/50)

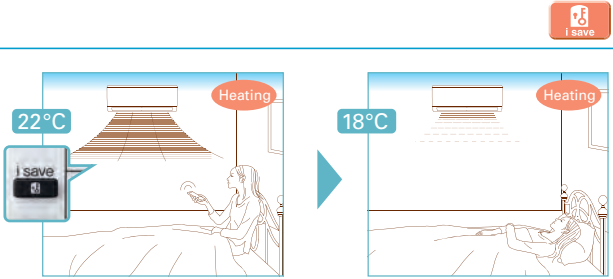
This filter generates stable antibacterial and deodourising effects. The size of the three-dimensional surface has been increased as well, enlarging the filter capture area. These features give the Air Purifying Filter better dust collection performance than conventional filters. The superior air-cleaning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



* It is okay to wash the filter with water (air-cleaning effect is maintained)

“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.

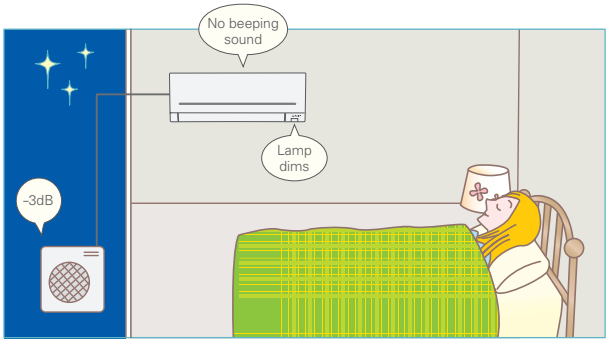


Night Mode

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

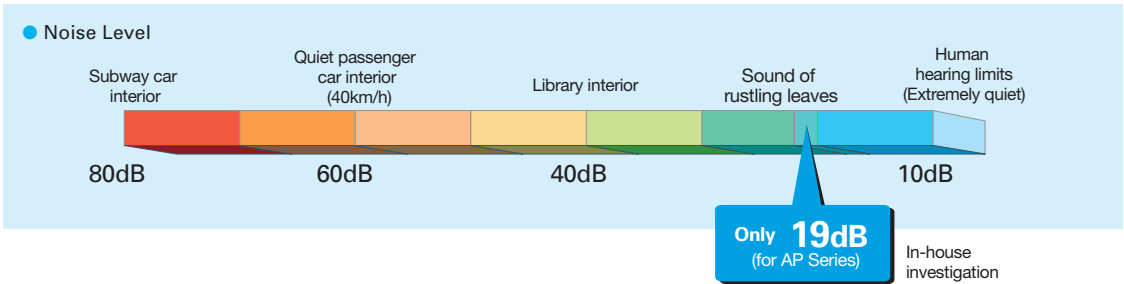
- When Night Mode is activated using the wireless remote controller, air conditioner operation will switch to the following settings.
- The brightness of the operation indicator lamp will become dimmer.
 - The beeping sound will be disabled.
 - The outdoor operating noise will drop to 3dB lower than the rated operating noise specification.

*The cooling/heating capacity may drop.



Quiet Operation

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



Built-in Wi-Fi Interface

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

MSZ-A SERIES

Indoor Unit

R32 R410A



MSZ-AP15/20VF



reddot award 2018
winner

Outdoor Unit

For MXZ Connection Only

Remote Controller



Type			Inverter Heat Pump											
Indoor Unit			MSZ-AP15VF		MSZ-AP20VF	MSZ-AP25VG (K)		MSZ-AP25VG (K)	MSZ-AP35VG (K)		MSZ-AP35VG (K)			
Outdoor Unit			for MXZ connection				MUZ-AP25VG		MUZ-AP25VGH		MUZ-AP35VG			
Refrigerant			Single: R32 ^(*) / Multi: R410A or R32 ^(*)											
Power Source			Outdoor Power supply											
Supply Outdoor (V / Phase / Hz)			230/Single/50											
Cooling	Design load		kW	-	-	2.5		2.5		3.5		3.5		
	Annual electricity consumption ⁽²⁾		kWh/a	-	-	101		101		142		142		
	SEER ⁽³⁾			-	-	8.6		8.6		8.6		8.6		
	Energy efficiency class			-	-	A+++		A+++		A+++		A+++		
				-	-	A+++		A+++		A+++		A+++		
	Capacity		Rated	kW	-	-	2.5		2.5		3.5		3.5	
		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		
Heating (Average Season) ⁽³⁾	Design load		kW	-	-	2.4 (-10°C)		2.4 (-10°C)		2.9 (-10°C)		2.9 (-10°C)		
	Declared Capacity		at reference design temperature	kW	-	-	2.4 (-10°C)		2.4 (-10°C)		2.9 (-10°C)		2.9 (-10°C)	
			at bivalent temperature	kW	-	-	2.4 (-10°C)		2.4 (-10°C)		2.9 (-10°C)		2.9 (-10°C)	
			at operation limit temperature	kW	-	-	2.4 (-15°C)		2.2 (-20°C)		2.6 (-15°C)		2.4 (-20°C)	
	Back up heating capacity		kW	-	-	0.0 (-10°C)		0.0 (-10°C)		0.0 (-10°C)		0.0 (-10°C)		
	Annual electricity consumption ⁽²⁾		kWh/a	-	-	698		703		862		873		
	SCOP ⁽⁴⁾			-	-	4.8		4.7		4.7		4.6		
	Energy efficiency class			-	-	A++		A++		A++		A++		
				-	-	A++		A++		A++		A++		
	Capacity		Rated	kW	-	-	3.2		3.2		4.0		4.0	
		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		
Operating Current (Max)			A	-	-	7.1		7.1		8.5		8.5		
Indoor Unit	Input		Rated	kW	0.017	0.019	0.026		0.026		0.026		0.026	
	Operating Current(Max)		A	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		
	Air Volume (SLo-Lo-Mid-Hi-SH ^(*) Dry/Wet)		Cooling	m³/min	3.5 - 3.9 - 4.6 - 5.5 - 6.4	3.5 - 3.9 - 4.6 - 5.5 - 6.9	4.9 - 5.9 - 7.1 - 8.7 - 11.4		4.9 - 5.9 - 7.1 - 8.7 - 11.4		4.9 - 5.9 - 7.1 - 8.7 - 11.4		4.9 - 5.9 - 7.1 - 8.7 - 11.4	
			Heating	m³/min	3.7 - 4.4 - 5.0 - 6.0 - 6.8	3.7 - 4.4 - 5.0 - 6.0 - 7.3	4.9 - 5.9 - 7.3 - 8.9 - 12.9		4.9 - 5.9 - 7.3 - 8.9 - 12.9		4.9 - 5.9 - 7.3 - 8.9 - 12.9		4.9 - 5.9 - 7.3 - 8.9 - 12.9	
	Sound Level (SPL)		Cooling	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 - 24 - 30 - 36 - 42		19 - 24 - 30 - 36 - 42		19 - 24 - 30 - 36 - 42		19 - 24 - 30 - 36 - 42	
			Heating	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 - 24 - 34 - 39 - 45		19 - 24 - 34 - 39 - 45		19 - 24 - 31 - 38 - 45		19 - 24 - 31 - 38 - 45	
	Sound Level (PWL)		Cooling	dB(A)	59	60	57		57		57		57	
	Dimensions		H*W*D	mm	-	-	550-800-285		550-800-285		550-800-285		550-800-285	
Outdoor Unit	Weight		kg	-	-	31		31		31		31		
	Air Volume		Cooling	m³/min	-	-	32.2		32.2		32.2		32.2	
			Heating	m³/min	-	-	29.8		29.8		33.8		33.8	
	Sound Level (SPL)		Cooling	dB(A)	-	-	47		47		49		49	
			Heating	dB(A)	-	-	48		48		50		50	
	Sound Level (PWL)		Cooling	dB(A)	-	-	59		59		61		61	
	Operating Current (Max)		A	-	-	6.8		6.8		8.2		8.2		
	Breaker Size		A	-	-	10		10		10		10		
	Diameter		Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52		6.35 / 9.52		6.35 / 9.52		6.35 / 9.52	
	Ext. Piping	Max.Length		Out-In	m	-	-	20		20		20		20
Max.Height		Out-In	m	-	-	12		12		12		12		
Guaranteed Operating Range (Outdoor)		Cooling	°C	-	-	-10 ~ +46		-10 ~ +46		-10 ~ +46		-10 ~ +46		
		Heating	°C	-	-	-15 ~ +24		-15 ~ +24		-20 ~ +24		-20 ~ +24		

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

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

(*) SHi: Super High

(*) 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".

(*) Please see page 00 for heating (warmer season) specifications.

MSZ-A SERIES

Joint Lap

DC Fan Motor

PAM

Grooved Piping

SEER A+++

SCOP A++

Indoor Unit

MSZ-AP25/35/42/50VG(K)

*VGK model Wi-Fi Interface built-in.

GOOD DESIGN

reddot award 2018 winner

Outdoor Unit

MUZ-AP25/35/42VG(H)

MUZ-AP50VG(H)

Remote Controller

Econo Cool

Natural White

AUTO VANE

Silver-ion

Air Purifying

SWING

SWING

AUTO

Weekly Timer

I save

ACO

Auto Restart

Low Temp Cooling

Optional

Group Control

Optional

M-NET connection

Wi-Fi interface

MXZ connection

10°C

Indoor

Night

Cleaning-free pipe robot

Flare connection

Self Diagnosis

Failure Recall

Type			Inverter Heat Pump			
Indoor Unit			MSZ-AP42VG(K)	MSZ-AP42VG(K)	MSZ-AP50VG(K)	MSZ-AP50VG(K)
Outdoor Unit			MUZ-AP42VG	MUZ-AP42VG(H)	MUZ-AP50VG	MUZ-AP50VG(H)
Refrigerant			Single: R32 ^(*) / Multi: R410A or R32 ^(*)			
Power Source			Outdoor Power supply			
Supply Outdoor (V / Phase / Hz)			230/Single/50			
Cooling	Design load	kW	4.2	4.2	5.0	5.0
	Annual electricity consumption ^(**)	kWh/a	188	188	236	236
	SEER ^(**)		7.8	7.8	7.4	7.4
	Energy efficiency class		A++	A++	A++	A++
	Capacity					
Heating (Average Season) ^(**)	Rated	kW	4.2	4.2	5.0	5.0
	Min-Max	kW	0.9-4.5	0.9-4.5	1.4-5.4	1.4-5.4
	Total Input	Rated	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)
	Declared Capacity	at reference design temperature	kW	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)
		at bivalent temperature	kW	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)
		at operation limit temperature	kW	3.8 (-20°C)	4.7 (-15°C)	4.2 (-20°C)
	Back up heating capacity	kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
	Annual electricity consumption ^(**)	kWh/a	1120	1134	1250	1275
	SCOP ^(**)		4.7	4.6	4.7	4.6
Indoor Unit	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	1.490	1.490	1.600	1.600
	Operating Current (Max)	A	9.9	9.9	13.6	13.6
	Input	Rated	0.032	0.032	0.032	0.032
	Operating Current(Max)	A	0.3	0.3	0.3	0.3
	Dimensions	H*W*D	mm	299-798-219	299-798-219	299-798-219
	Weight	kg	10.5	10.5	10.5	10.5
Outdoor Unit	Air Volume (SLo-Lo-Mid-Hi-SH ^(**) Dry/Wet)	Cooling	m ³ /min	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
		Heating	m ³ /min	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) (SLo-Lo-Mid-Hi-SH ^(**))	Cooling	dB(A)	21 - 29 - 34 - 38 - 42	21 - 29 - 34 - 38 - 42	28 - 33 - 36 - 40 - 44
		Heating	dB(A)	21 - 29 - 35 - 40 - 45	21 - 29 - 35 - 40 - 45	28 - 33 - 38 - 43 - 48
	Sound Level (PWL)	Cooling	dB(A)	57	57	58
		Heating	dB(A)	57	57	58
	Dimensions	H*W*D	mm	550-800-285	550-800-285	714-800-285
	Weight	kg	35	35	40	40
	Air Volume	Cooling	m ³ /min	30.4	40.5	40.5
		Heating	m ³ /min	32.7	40.5	40.5
Ext. Piping	Sound Level (SPL)	Cooling	dB(A)	50	52	52
		Heating	dB(A)	51	52	52
	Sound Level (PWL)	Cooling	dB(A)	61	64	64
		Heating	dB(A)	61	64	64
	Operating Current (Max)	A	9.6	9.6	13.3	13.3
Guaranteed Operating Range (Outdoor)	Breaker Size	A	10	10	16	16
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
	Max.Length	Out-In	m	20	20	20
		Out-In	m	12	12	12
Guaranteed Operating Range (Outdoor)	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heating	°C	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24

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

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

(*) SHi: Super High

(*) 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".

(*) Please see page 00 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
Single / Multi

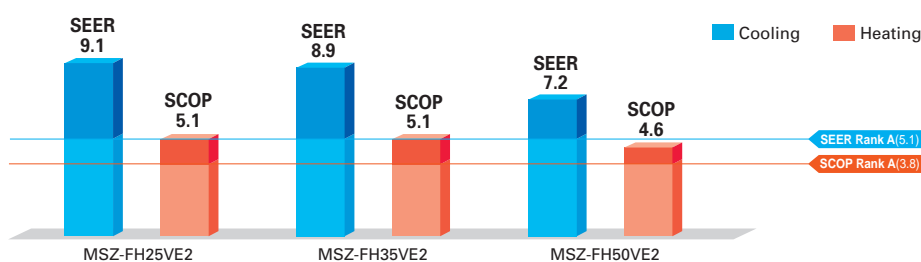
MSZ-FH25/35/50VE2



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).

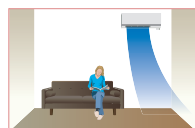


3D i-see Sensor

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

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



Direct Airflow

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

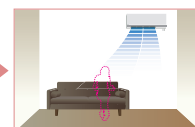


Absence Detection

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



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



Plasma Quad

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

Bacteria

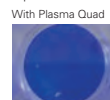
Test results have confirmed that Plasma Quad neutralizes 99% of bacteria in 115 minutes in a 25m³ test space.



<Test No.> KRCEB-Bio.Test Report No.23_0317

Viruses

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



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

Effective deodorizing using the air-purifying filter

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 neutralizes 94% of cat fur and 98% of pollen.

<Test No.> ITEA No.12M-RPTFEB022

Dust

In a test, air containing dust and ticks was passed through the air cleaning device at the low airflow setting. Before and after measurements confirm that Plasma Quad removes 88.6% of dust and ticks.

<Test No.> ITEA No.12M-RPTFEB022

MSZ-F SERIES



Indoor Unit

R410A



MSZ-FH25/35/50VE2

Outdoor Unit

R410A



MUZ-FH25/35VE



MUZ-FH50VE

Remote Controller



Type				Inverter Heat Pump							
Indoor Unit				MSZ-FH25VE2		MSZ-FH35VE2		MSZ-FH50VE2			
Outdoor Unit				MUZ-FH25VE		MUZ-FH35VE		MUZ-FH50VE			
Refrigerant				R410A ⁽¹⁾							
Power Supply				Outdoor Power supply							
Source				230/Single/50							
Outdoor (V / Phase / Hz)											
Cooling	Design load		kW	2.5		3.5		5.0			
	Annual electricity consumption ⁽²⁾		kWh/a	96		138		244			
	SEER ⁽³⁾			9.1		8.9		7.2			
	Energy efficiency class			A+++		A+++		A++			
	Capacity	Rated	kW	2.5		3.5		5.0			
		Min-Max	kW	1.4-3.5		0.8-4.0		1.9-6.0			
Total Input		Rated	kW	0.485		0.820		1.380			
Heating (Average Season) ⁽⁴⁾	Design load		kW	3.0(-10°C)		3.6(-10°C)		4.5(-10°C)			
	Declared Capacity	at reference design temperature	kW	3.0(-10°C)		3.6(-10°C)		4.5(-10°C)			
		at bivalent temperature	kW	3.0(-10°C)		3.6(-10°C)		4.5(-10°C)			
		at operation limit temperature	kW	2.5(-15°C)		3.2(-15°C)		5.2(-15°C)			
	Back up heating capacity		kW	0.0(-10°C)		0.0(-10°C)		0.0(-10°C)			
	Annual electricity consumption ⁽²⁾		kWh/a	819		986		1372			
	SCOP ⁽⁴⁾			5.1		5.1		4.6			
	Energy efficiency class			A+++		A+++		A++			
	Capacity	Rated	kW	3.2		4.0		6.0			
		Min-Max	kW	1.8-5.5		1.0-6.3		1.7-8.7			
Total Input		Rated	kW	0.580		0.800		1.480			
Operating Current (Max)				A		9.6		10.0		14.0	
Input		Rated	kW	0.029		0.029		0.031			
Operating Current(Max)				A		0.4		0.4			
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				
Indoor Unit	Air Volume (SLo-Lo-Mid-Hi-SH ⁽⁵⁾ (Dry/Well)	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			
		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) (SLo-Lo-Mid-Hi-SH ⁽⁶⁾)	Cooling	dB(A)	20-23-29-36-42		21-24-29-36-42		27-31-35-39-44			
		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				
Outdoor Unit	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)		A	9.2		9.6		13.6			
Breaker Size		A	10		10		16				
Ext. Piping	Diameter		Liquid/Gas	mm	6.35 / 9.52		6.35 / 9.52		6.35 / 12.7		
	Max.Length		Out-In	m	20		20		30		
	Max.Height		Out-In	m	12		12		15		
Guaranteed Operating Range (Outdoor)				Cooling	°C	-10 ~ +46		-10 ~ +46			
				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 disassemble the product yourself and always ask a professional.

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

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

(3) SHi: Super High

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

(5) Please see page 00 for heating (warmer season) specifications.

KIRIGAMINE ZEN

MSZ-E SERIES

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

R32
Single / Multi
R410A
Multi

MSZ-EF18-50VGB



GOOD
DESIGN



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

DC Inverter
SEER A+++
SCOP A++
*except for VEH

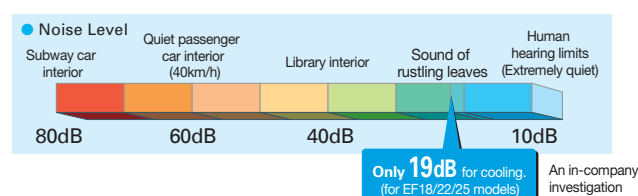
All models in the series have achieved high energy-savings rating, and are contributing to reduced energy consumption in homes, offices and a range of other settings. Offered in a variety of output capacities and installation patterns, the vast applicability promises an ideal match for any user.

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

*VEH

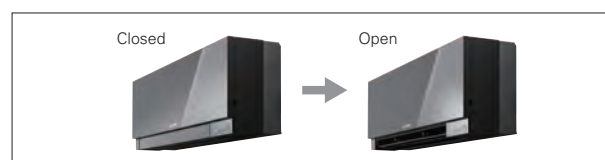
Quiet Comfort All Day Long

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



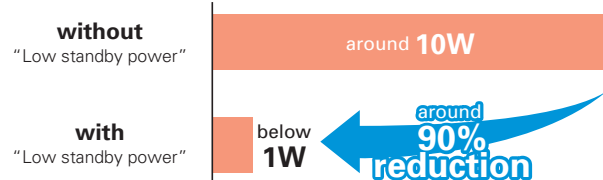
Superior Exterior and Operating Design Concept

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



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.

Standard Units

Heater Installed



MUZ-EF25/35VG



MUZ-EF25/35VGH

MSZ-E SERIES



Indoor Unit / Remote Controller

R32

R410A



White



Silver



Black

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

* Soft-dry Cloth is enclosed with Black models.

Outdoor Unit

R32



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



MUZ-EF50VG



Type			Inverter Heat Pump								
Indoor Unit			MSZ-EF18VG	MSZ-EF22VG	MSZ-EF25VG	MSZ-EF25VG	MSZ-EF35VG	MSZ-EF35VG	MSZ-EF42VG	MSZ-EF50VG	
Outdoor Unit			for MXZ connection		MUZ-EF25VG	MUZ-EF25VG	MUZ-EF35VG	MUZ-EF35VG	MUZ-EF42VG	MUZ-EF50VG	
Refrigerant			R32 ⁽¹⁾								
Power Supply	Source		Outdoor Power supply								
	Outdoor (V / Phase / Hz)		230/Single/50								
Cooling	Design load	kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0	
	Annual electricity consumption ⁽²⁾	kWh/a	-	-	96	96	139	139	186	233	
	SEER ⁽⁴⁾		-	-	9.1	9.1	8.8	8.8	7.9	7.5	
	Energy efficiency class		-	-	A+++	A+++	A+++	A+++	A++	A++	
				-	-						
	Capacity	Rated	kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0
Heating (Average Season) ⁽⁵⁾	Min-Max	kW	-	-	0.9-3.4	0.9-3.4	1.1-4.0	1.1-4.0	0.9-4.6	1.4-5.4	
	Total Input	Rated	kW	-	0.540	0.540	0.910	0.910	1.200	1.540	
	Design load	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	
	Declared Capacity	at reference design temperature	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
		at bivalent temperature	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
		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)
	Back up heating capacity	kW	-	-	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	
	Annual electricity consumption ⁽²⁾	kWh/a	-	-	713	727	882	900	1151	1304	
	SCOP ⁽⁴⁾		-	-	4.7	4.6	4.6	4.5	4.6	4.5	
	Energy efficiency class		-	-	A++	A++	A++	A+	A++	A+	
			-	-							
Capacity	Rated	kW	-	-	3.2	3.2	4.0	4.0	5.4	5.8	
	Min-Max	kW	-	-	1.0-4.2	1.0-4.2	1.3-5.1	1.3-5.1	1.3-6.3	1.4-7.5	
Total Input	Rated	kW	-	-	0.700	0.700	0.950	0.950	1.455	1.560	
Operating Current (Max)			A	-	-	7.1	7.1	7.1	10.0	14	
Indoor Unit	Input	Rated	kW	0.026	0.026	0.026	0.026	0.030	0.030	0.043	
	Operating Current (Max)	A	-	0.3	0.3	0.3	0.3	0.3	0.4	0.4	
	Dimensions	H*W*D	mm	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	
	Weight	kg	-	11.5	11.5	11.5	11.5	11.5	11.5	11.5	
	Air Volume (SLo-Lo-Mid-Hi-SH ⁽³⁾) (Dry/Well)	Cooling	m ³ /min	4.0-4.6-6.3-8.3-10.5	4.0-4.6-6.3-8.3-10.5	4.0-4.6-6.3-8.3-10.5	4.0-4.6-6.3-8.3-10.5	4.0-4.6-6.3-8.3-10.5	5.8-6.6-7.7-8.9-11.2	5.8-6.8-7.9-9.2-11.3	
		Heating	m ³ /min	4.0-4.6-6.2-8.9-11.9	4.0-4.6-6.2-8.9-11.9	4.0-4.6-6.2-8.9-11.9	4.0-4.6-6.2-8.9-11.9	4.0-4.6-6.2-8.9-12.7	5.5-6.3-7.8-9.9-13.2	6.4-7.2-9.0-11.1-14.6	
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SH ⁽³⁾)	Cooling	dB(A)	19-23-29-36-42	19-23-29-36-42	19-23-29-36-42	19-23-29-36-42	21-24-30-36-42	21-24-30-36-42	28-31-35-39-43	30-33-36-40-43
		Heating	dB(A)	21-24-29-37-45	21-24-29-37-45	21-24-29-37-45	21-24-29-37-45	21-24-30-38-46	21-24-30-38-46	28-30-35-41-48	30-33-37-43-49
	Sound Level (PWL)	Cooling	dB(A)	60	60	60	60	60	60	60	60
	Outdoor Unit	Dimensions	H*W*D	mm	-	-	550-800-285	550-800-285	550-800-285	550-800-285	714-800-285
Weight		kg	-	-	31	31	34	34	35	40	
Air Volume		Cooling	m ³ /min	-	-	27.8	27.8	34.3	34.3	32.0	40.2
		Heating	m ³ /min	-	-	29.8	29.8	32.7	32.7	32.7	40.2
Sound Level (SPL)		Cooling	dB(A)	-	-	47	47	49	49	50	52
		Heating	dB(A)	-	-	48	48	50	50	51	52
Sound Level (PWL)		Cooling	dB(A)	-	-	58	58	62	62	65	65
Operating Current (Max)		A	-	-	6.8	6.8	6.8	6.8	9.6	13.6	
Breaker Size		A	-	-	10	10	10	10	12	16	
Ext. Piping		Diameter	Liquid/Gas	mm	-	-	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
	Max.Length	Out-In	m	-	-	20	20	20	20	30	
	Max.Height	Out-In	m	-	-	12	12	12	12	15	
Guaranteed Operating Range (Outdoor)	Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
	Heating	°C	-	-	-15 ~ +24	-20 ~ +24	-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 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 00 for heating (warmer season) specifications.

MSZ-S SERIES MSZ-G SERIES

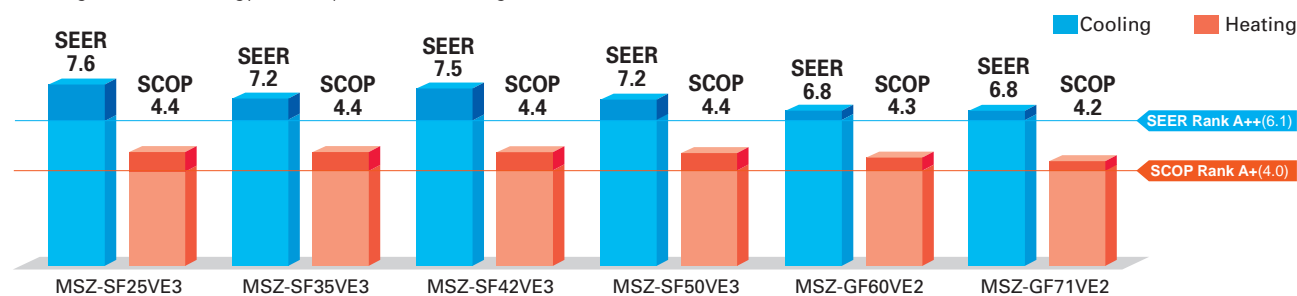
Introducing a compact and stylish indoor unit with amazingly quiet performance. Not only are neat installations in small bedrooms possible, increase energy-savings by selecting the optimal capacity required for each room.



"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

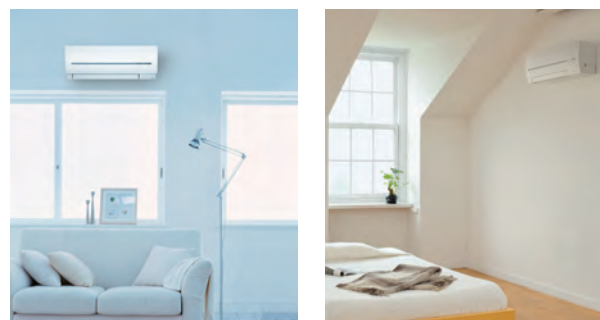


Family Design

(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”

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.
6:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
8:00	Automatically changes to high-power operation at wake-up time						
10:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00	Automatically turned off during work hours					Midday is warmer, so the temperature is set lower	
14:00							
16:00							
18:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
20:00	Automatically turns on, synchronized with arrival at home					Automatically raises temperature setting to match time when outside-air temperature is low	
22:00							
(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						

Settings

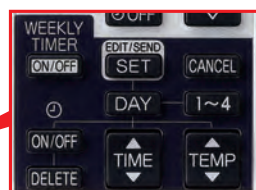
Pattern Settings: Input up to four settings for each day

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

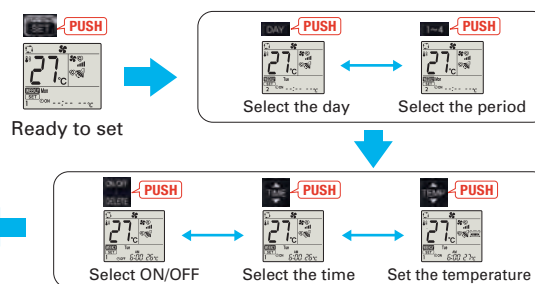
■ Easy set-up using dedicated buttons



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



How to set
the Weekly
Timer



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

Low Standby Power

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

without
“Low standby power”

around 10W

with
“Low standby power”

below 1W

around 90%
reduction

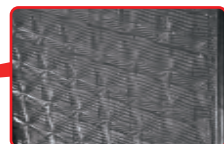
Air Purifying Filter

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

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



* It is okay to wash the filter with water (air-cleaning effect is maintained)

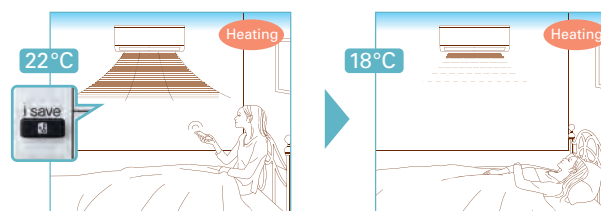


3D surface (Waved surface)

“i save” Mode

i save

“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 (25/35/42/50)

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

Standard Units



MUZ-SF25/35/42VE MUZ-SF50VE

Heater Installed



MUZ-SF25/35/42VEH MUZ-SF50VEH

MSZ-S SERIES



Indoor Unit

R410A



MSZ-SF15/20VA

Outdoor Unit

For MXZ Connection Only

Remote Controller



Type			Inverter Heat Pump					
Indoor Unit			MSZ-SF15VA	MSZ-SF20VA	MSZ-SF25VE3	MSZ-SF25VE3	MSZ-SF35VE3	MSZ-SF35VE3
Outdoor Unit			for MXZ connection		MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH
Refrigerant			R410A ^(*)					
Power Source			Outdoor Power supply					
Supply Outdoor (V / Phase / Hz)			230/Single/50					
Cooling	Design load	kW	-	-	2.5	2.5	3.5	3.5
	Annual electricity consumption ^(*)	kWh/a	-	-	116	116	171	171
	SEER ^(*)		-	-	7.6	7.6	7.2	7.2
	Energy efficiency class		-	-	A++	A++	A++	A++
	Capacity							
	Rated	kW	-	-	2.5	2.5	3.5	3.5
Heating (Average Season) ^(*)	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)
	Declared Capacity							
	at reference design temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)
	at bivalent temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)
Back up heating capacity	at operation limit temperature	kW	-	-	2.0(-15°C)	1.6(-20°C)	2.2(-15°C)	1.6(-20°C)
	Annual electricity consumption ^(*)	kWh/a	-	-	764	790	923	948
	SCOP ^(*)		-	-	4.4	4.3	4.4	4.3
	Energy efficiency class		-	-	A+	A+	A+	A+
	Capacity							
	Rated	kW	-	-	3.2	3.2	4.0	4.0
Indoor Unit	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
	Operating Current (Max)	A	-	-	8.4	8.4	8.5	8.5
	Input	Rated	kW	0.017	0.019	0.024	0.024	0.027
	Operating Current (Max)	A	0.17	0.19	0.2	0.2	0.3	0.3
	Dimensions	H*W*D	mm	250-760-168	250-760-168	299-798-195	299-798-195	299-798-195
Outdoor Unit	Weight	kg	-	-	10	10	10	10
	Air Volume (Lo-Lo-Mid-Hi-SH ^(*) Dry/Well)							
	Cooling	m ³ /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
	Heating	m ³ /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) (Lo-Lo-Mid-Hi-SH ^(*))							
	Cooling	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 ^(*) - 24 - 30 - 36 - 42	19 ^(*) - 24 - 30 - 36 - 42	19 ^(*) - 24 - 30 - 36 - 42	19 ^(*) - 24 - 30 - 36 - 42
Outdoor Unit	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 - 34 - 40 - 46	19 ^(*) - 24 - 34 - 40 - 46
	Sound Level (PWL)							
	Cooling	dB(A)	59	60	57	57	57	57
	Heating	dB(A)	-	-	550-800-285	550-800-285	550-800-285	550-800-285
	Dimensions	H*W*D	mm	-	-	31	31	31
	Weight	kg	-	-	-	31	31	31
Ext. Piping	Air Volume							
	Cooling	m ³ /min	-	-	31.1	31.1	35.9	35.9
	Heating	m ³ /min	-	-	30.7	30.7	35.9	35.9
	Sound Level (SPL)							
	Cooling	dB(A)	-	-	47	47	49	49
	Heating	dB(A)	-	-	48	48	50	50
Guaranteed Operating Range (Outdoor)	Sound Level (PWL)							
	Cooling	dB(A)	-	-	58	58	62	62
	Operating Current (Max)	A	-	-	8.2	8.2	8.2	8.2
	Breaker Size	A	-	-	10	10	10	10
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
	Max.Length	Out-In	m	-	-	20	20	20
Max.Height	Out-In	m	-	-	12	12	12	12
	Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
Heating	Heating	°C	-	-	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24

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

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

(*) SHi: Super High

(*) 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".

(*) Please see page 00 for heating (warmer season) specifications.

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

MSZ-S SERIES
MSZ-G SERIES



Indoor Unit

R410A



MSZ-SF25/35/42/50VE3



MSZ-GF60/71VE2

Outdoor Unit

R410A

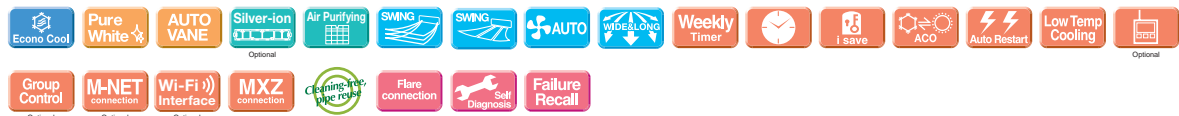


MUZ-SF25/35/42VE(H)



MUZ-SF50VE(H)
MUZ-GF60/71VE

Remote Controller



Type				Inverter Heat Pump						
Indoor Unit				MSZ-SF42VE3	MSZ-SF42VE3	MSZ-SF50VE3	MSZ-SF50VE3	MSZ-GF60VE2	MSZ-GF71VE2	
Outdoor Unit				MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH	MUZ-GF60VE	MUZ-GF71VE	
Refrigerant				R410A ⁽¹⁾						
Power Source				Outdoor Power supply						
Supply Outdoor (V / Phase / Hz)				230/Single/50						
Cooling	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⁾	Energy efficiency class		7.5	7.5	7.2	7.2	6.8	6.8	
				A++	A++	A++	A++	A++	A++	
	Capacity	Rated	kW	4.2	4.2	5.0	5.0	6.1	7.1	
		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	
Heating (Average Season) ⁽³⁾	Design load		kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)	
	Declared Capacity	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)	
		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)	
		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)	
		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)	
	Annual electricity consumption ⁽²⁾		kWh/a	1215	1242	1351	1380	1489	2204	
	SCOP ⁽⁴⁾			4.4	4.3	4.4	4.3	4.3	4.2	
		Energy efficiency class		A+	A+	A+	A+	A+	A+	
	Capacity	Rated	kW	5.4	5.4	5.8	5.8	6.8	8.1	
		Min-Max	kW	1.3-6.0	1.3-6.0	1.4-7.3	1.4-7.3	2.0-9.3	2.2-9.9	
	Total Input		Rated	kW	1.580	1.580	1.700	1.700	1.810	2.230
Operating Current (Max)			A	9.5	9.5	12.3	12.3	14.5	16.6	
Indoor Unit	Input		Rated	kW	0.027	0.027	0.035	0.035	0.062	0.058
	Operating Current(Max)		A	0.3	0.3	0.3	0.3	0.5	0.5	
	Dimensions		H*W*D	mm	299-798-195	299-798-195	299-798-195	299-798-195	325-1100-238	325-1100-238
	Weight		kg	10	10	10	10	16	16	
	Air Volume (Lo-Lo-Mid-Hi-SH ⁽⁵⁾ /Dry/Wet)	Cooling	m ³ /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	
		Heating	m ³ /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) (Lo-Lo-Mid-Hi-SH ⁽⁵⁾)	Cooling	dB(A)	26 ⁽⁶⁾ - 31 - 34 - 38 - 42	26 ⁽⁶⁾ - 31 - 34 - 38 - 42	28 ⁽⁶⁾ - 33 - 36 - 40 - 45	28 ⁽⁶⁾ - 33 - 36 - 40 - 45	29 - 37 - 41 - 45 - 49	30 - 37 - 41 - 45 - 49	
		Heating	dB(A)	26 ⁽⁶⁾ - 31 - 36 - 42 - 47	26 ⁽⁶⁾ - 31 - 36 - 42 - 47	28 ⁽⁶⁾ - 33 - 38 - 43 - 49	28 ⁽⁶⁾ - 33 - 38 - 43 - 49	29 - 37 - 41 - 45 - 49	30 - 37 - 41 - 45 - 49	
	Sound Level (PWL)		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	
	Weight		kg	35	35	55	55	50	53	
Outdoor Unit	Air Volume	Cooling	m ³ /min	35.2	35.2	44.6	44.6	49.2	50.1	
		Heating	m ³ /min	33.6	33.6	44.6	44.6	49.2	48.2	
	Sound Level (SPL)	Cooling	dB(A)	50	50	52	52	55	55	
		Heating	dB(A)	51	51	52	52	55	55	
	Sound Level (PWL)	dB(A)	63	63	65	65	65	65		
	Operating Current (Max)		A	9.2	9.2	12	12	14	16.1	
	Breaker Size		A	10	10	16	16	20	20	
Ext. Piping	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	
	Max.Length	Out-In	m	20	20	30	30	30	30	
	Max.Height	Out-In	m	12	12	15	15	15	15	
	Guaranteed Operating Range (Outdoor)	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
Heating		°C	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24		

(*)1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R410A is 2088 in the IPCC 4th Assessment Report.
(*)2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*)3 SHi: Super High
(*)4 SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(*)5 Please see page 00 for heating (warmer season) specifications.
(*)6 For single use: only 26dB(A). For multi use (MXZ): 28dB(A).
(*)7 For single use: only 28dB(A). For multi use (MXZ): 30dB(A).

MSZ-W SERIES

Introducing a stylish indoor unit with high-performance air purifying filters. Wi-Fi and system controller connectivity, and a heating operation range down to -15°C contribute to greater room comfort.

R410A

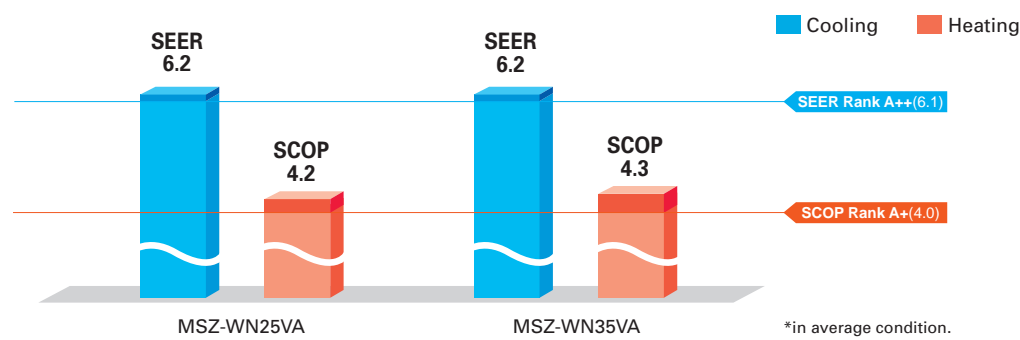
MSZ-WN25/35VA



Advanced Inverter Control – Efficient Operation All the Time

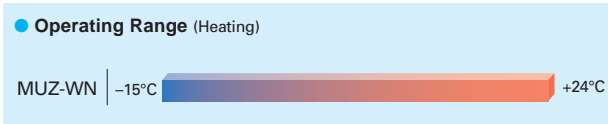


Mitsubishi Electric's cutting-edge inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises an Energy Rank "A+".



Wider Heating Operating Range

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



Wi-Fi and System Control

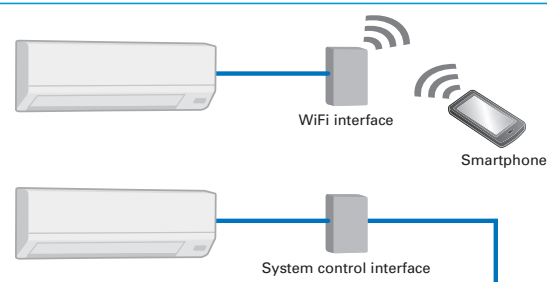
Wi-Fi Interface (Optional)

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

System Control Interface (Optional)

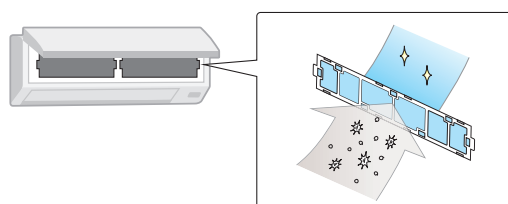
- Remote on/off operation is possible by input to the connector.
- Depending on the interface used, connecting a wired remote-control such as the PAR-40MAA is possible.
- Centralised control is possible when connected to M-NET.

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



Silver-ionized Air Purifying Filter

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

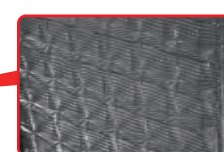


Air Purifying Filter

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.




* It is okay to wash the filter with water (air-cleaning effect is maintained)




3D surface (Waved surface)


MSZ-W

SERIES




DC Inverter





PAM




SEER A++

SCOP A+

Indoor Unit


R410A



MSZ-WN25/35VA


Outdoor Unit

R410A



MUZ-WN25/35VA

Remote Controller



Econo Cool


Pure White

AUTO VANE

Silver-ion


SWING

AUTO




Auto Restart

Low Temp Cooling




Optional

Centralised On/Off




Optional

Group Control




Optional


Wi-Fi Interface



Optional



Flare connection



Self Diagnosis

Failure Recall

Type				Inverter Heat Pump				
Indoor Unit				MSZ-WN25VA		MSZ-WN35VA		
Outdoor Unit				MUZ-WN25VA		MUZ-WN35VA		
Refrigerant				R410A ⁽¹⁾				
Power Supply	Source			Indoor Power Supply				
	Outdoor (V / Phase / Hz)			230V/Single/50Hz				
Cooling	Design load		kW	2.5		3.1		
	Annual electricity consumption ⁽²⁾		kWh/a	141		173		
	SEER ⁽³⁾			6.2		6.2		
	Energy efficiency class			A++		A++		
	Capacity	Rated	kW	2.5		3.15		
		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)	
Heating (Average Season) ⁽⁴⁾	Declared Capacity	at reference design temperature	kW	1.9(-10°C)		2.4(-10°C)		
		at bivalent temperature	kW	1.9(-10°C)		2.4(-10°C)		
		at operation limit temperature	kW	1.6(-15°C)		2.0(-15°C)		
		Back up heating capacity	kW	0.0(-10°C)		0.0(-10°C)		
	Annual electricity consumption ⁽²⁾		kWh/a	628		793		
	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
Operating Current (Max)			A	5.8		6.5		
Indoor Unit	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	
	Air Volume (Lo-Mid-Hi-SH) ⁽⁵⁾ (Dry/Wet)	Cooling	m³/min	3.8 - 5.5 - 7.3 - 9.5		3.8 - 5.7 - 7.8 - 11.4		
		Heating	m³/min	3.5 - 5.5 - 7.5 - 10.0		3.5 - 5.5 - 7.5 - 10.3		
	Sound Level (SPL) (Lo-Mid-Hi-SH) ⁽⁵⁾	Cooling	dB(A)	22 - 30 - 37 - 43		22 - 31 - 38 - 46		
		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	
Outdoor Unit	Weight			kg	24		25	
	Air Volume	Cooling	m³/min	31.5		31.5		
		Heating	m³/min	31.5		31.5		
	Sound Level (SPL)	Cooling	dB(A)	50		52		
		Heating	dB(A)	50		52		
	Sound Level (PWL)		Cooling	dB(A)	63		64	
	Operating Current (Max)			A	5.5		6.2	
	Breaker Size			A	10		10	
	Ext. Piping	Diameter	Liquid/Gas	mm	6.35/9.52		6.35/9.52	
		Max.Length	Out-In	m	20		20	
Max.Height		Out-In	m	12		12		
Guaranteed Operating Range (Outdoor)				Cooling	°C		-10 ~ +46	-10 ~ +46
				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 disassemble the product yourself and always ask a professional.

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

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

(3) SHI: Super High

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

(5) Please see page 00 for heating (warmer season) specifications.

MSY-TP_{SERIES}

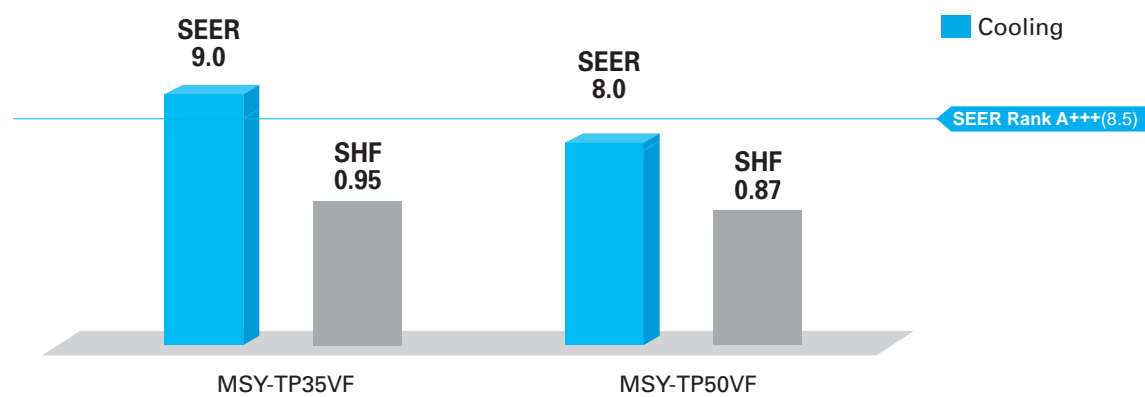
Cooling only model with high-performance provide high SHF in various environments thanks to wide operation range.

R32

MSY-TP35/50VF

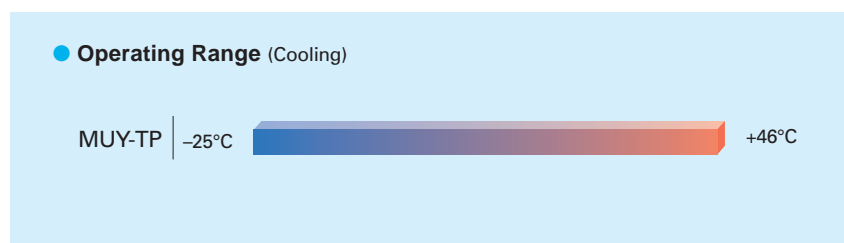


High Energy-Saving Performance with High SHF









Wide Cooling Operating Range

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




MSY-TP SERIES






35
SEER
A+++


Indoor Unit






MSY-TP35/50VF

Outdoor Unit

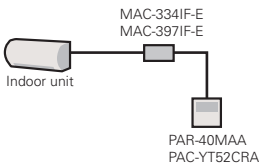




MUY-TP35/TP50VF

Remote Controller











• Wired remote controller can be connected to indoor unit.



MAC-334IF-E
MAC-397IF-E

Indoor unit

PAR-40MAA
PAC-YT52CRA



Type				Inverter Heat Pump				
Indoor Unit				MSY-TP35VF		MSY-TP50VF		
Outdoor Unit				MUY-TP35VF		MUY-TP50VF		
Refrigerant				R32				
Power Supply	Source			Indoor Power supply				
	Outdoor (V / Phase / Hz)			230V / Single / 50Hz				
Cooling	Design load		kW	3.5		5.0		
	Annual electricity consumption ^(*)		kWh/a	136		218		
	SEER ^(*)			9.0		8.0		
	Energy efficiency class			A+++		A++		
	Capacity	Rated	kW	3.5		5.0		
		Min-Max	kW	1.5 - 4.0		1.5 - 5.7		
Total Input	Rated	kW	0.760		1.450			
Heating (Average Season) ^(*)	Design load		kW	-		-		
	Declared Capacity	at reference design temperature	kW	-		-		
		at bivalent temperature	kW	-		-		
		at operation limit temperature	kW	-		-		
	Back up heating capacity		kW	-		-		
	Annual electricity consumption ^(*)		kWh/a	-		-		
	SCOP ^(*)			-		-		
	Energy efficiency class			-		-		
	Capacity	Rated	kW	-		-		
		Min-Max	kW	-		-		
	Total Input	Rated	kW	-		-		
	Operating Current (Max)			A	9.6		9.6	
Indoor Unit	Input	Rated	kW	0.033		0.034		
	Operating Current (Max)		A	0.4		0.4		
	Dimensions		H*W*D	mm		305-923-250		
	Weight		kg	12.5		12.5		
	Air Volume (Lo-Mid-Hi-SH) ^(*) (Dry/Wet)	Cooling	m³/min	10.1 - 11.6 - 13.7 - 16.4		10.1 - 11.6 - 13.7 - 16.4		
		Heating	m³/min	-		-		
	Sound Level (SPL) (Lo-Mid-Hi-SH) ^(*)	Cooling	dB(A)	31 - 36 - 40 - 45		31 - 36 - 40 - 45		
		Heating	dB(A)	-		-		
	Sound Level (PWL)	Cooling	dB(A)	60		60		
		Heating	dB(A)	-		-		
	Breaker Size		A	10		10		
	Outdoor Unit	Dimensions		H*W*D	mm		550-800-285	
Weight		kg	34		34			
Air Volume		Cooling	m³/min	29.3		29.3		
		Heating	m³/min	-		-		
Sound Level (SPL)		Cooling	dB(A)	45		47		
		Heating	dB(A)	-		-		
Sound Level (PWL)		Cooling	dB(A)	58		61		
		Operating Current (Max)		A	9.2		9.2	
Ext. Piping	Diameter	Liquid/Gas	mm	6.35/9.52		6.35/9.52		
	Max.Length	Out-In	m	20		20		
	Max.Height	Out-In	m	12		12		
Guaranteed Operating Range (Outdoor)			Cooling	°C	-25 ~ +46		-25 ~ +46	
			Heating	°C	-		-	

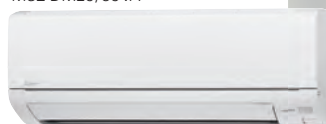
(*)1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 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 and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011.

MSZ-D SERIES

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

R410A

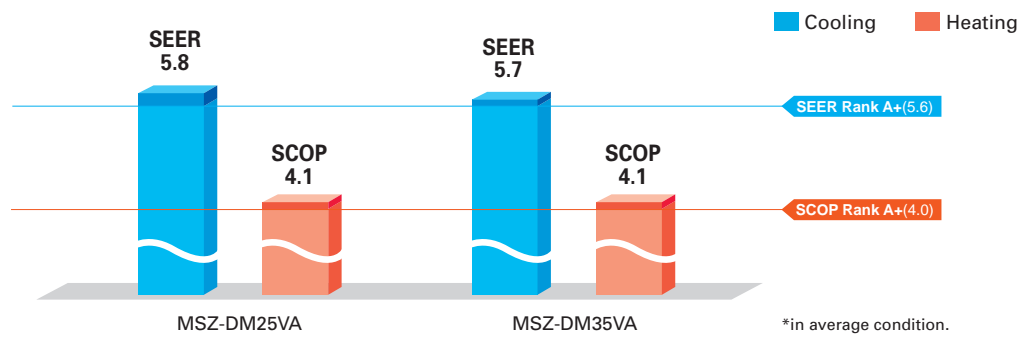
MSZ-DM25/35VA



Advanced Inverter Control – Efficient Operation All the Time

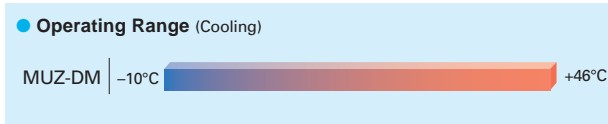


Mitsubishi Electric's cutting-edge inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises an Energy Rank "A+".



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

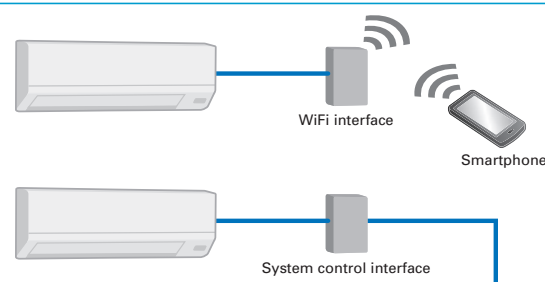
Wi-Fi Interface (Optional)

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)

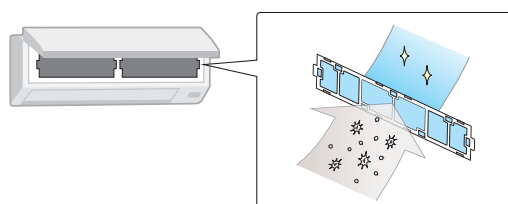
- Remote on/off operation is possible by input to the connector.
- Depending on the interface used, connecting a wired remote-control such as the PAR-40MAA is possible.
- Centralised control is possible when connected to M-NET.

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



Silver-ionized Air 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.

Indoor Unit: MSZ-DM25VA



Only 799mm width

Outdoor Unit: MUZ-DM25/35VA



Only 699mm width

MSZ-D SERIES

Indoor Unit

R410A

MSZ-DM25/35VA

Outdoor Unit

R410A

MUZ-DM25/35VA

Remote Controller

Type			Inverter Heat Pump	
Indoor Unit			MSZ-DM25VA	MSZ-DM35VA
Outdoor Unit			MUZ-DM25VA	MUZ-DM35VA
Refrigerant			R410A ⁽¹⁾	
Power Supply	Source		Indoor Power supply	
	Outdoor (V / Phase / Hz)		230V/Single/50Hz	
Cooling	Design load	kW	2.5	3.1
	Annual electricity consumption ⁽²⁾	kWh/a	149	190
	SEER ⁽⁴⁾		5.8	5.7
	Capacity	Energy efficiency class	A+	A+
		Rated	2.5	3.15
	Min-Max	kW	1.3 - 3.0	1.4 - 3.5
Heating (Average Season) ⁽⁵⁾	Total Input	Rated	0.710	1.020
	Design load	kW	1.9 (-10°C)	2.4 (-10°C)
	Declared Capacity	at reference design temperature	1.9 (-10°C)	2.4 (-10°C)
		at bivalent temperature	1.9 (-10°C)	2.4 (-10°C)
		at operation limit temperature	1.9 (-10°C)	2.4 (-10°C)
	Back up heating capacity	kW	0.0 (-10°C)	0.0 (-10°C)
Indoor Unit	Annual electricity consumption ⁽²⁾	kWh/a	647	809
	SCOP ⁽⁴⁾		4.1	4.1
	Capacity	Energy efficiency class	A+	A+
		Rated	3.15	3.6
	Min-Max	kW	0.9 - 3.5	1.1 - 4.1
	Total Input	Rated	0.850	0.975
Outdoor Unit	Operating Current (Max)	A	5.8	6.5
	Input	Rated	0.020	0.024
	Operating Current(Max)	A	0.3	0.3
	Dimensions	H*W*D	290-799-232	290-799-232
	Weight	kg	9	9
	Air Volume (SLo-Lo-Mid-Hi-SH) ⁽³⁾ (Dry/Wet)	m³/min	3.8 - 5.5 - 7.3 - 9.5	3.8 - 5.7 - 7.8 - 10.9
Ext. Piping	Sound Level (SPL)	Cooling	22 - 30 - 37 - 43	22 - 31 - 38 - 45
		Heating	23 - 30 - 37 - 43	23 - 30 - 37 - 44
	Sound Level (PWL)	Cooling	57	60
		Heating	57	60
	Dimensions	H*W*D	538-699-249	538-699-249
	Weight	kg	24	25
Guaranteed Operating Range (Outdoor)	Air Volume	Cooling	31.5	31.5
		Heating	31.5	31.5
	Sound Level (SPL)	Cooling	50	51
		Heating	50	51
	Sound Level (PWL)	Cooling	63	64
		Heating	63	64
Ext. Piping	Operating Current (Max)		5.5	6.2
	Breaker Size		10	10
	Diameter	Liquid/Gas	6.35/9.52	6.35/9.52
	Max.Length	Out-In	20	20
	Max.Height	Out-In	12	12
		Out-In	12	12
Guaranteed Operating Range (Outdoor)	Cooling	°C	-10 ~ +46	-10 ~ +46
	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 disassemble the product yourself and always ask a professional.

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

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

(3) SHi: Super High

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

(5) Please see page 00 for heating (warmer season) specifications.

MSZ-H SERIES

Compact, high-performance indoor and outdoor units and advanced inverter technologies provide superior energy savings and comfort in all rooms.

R410A

MSZ-HJ25/35/50VA

MSZ-HJ60/71VA



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

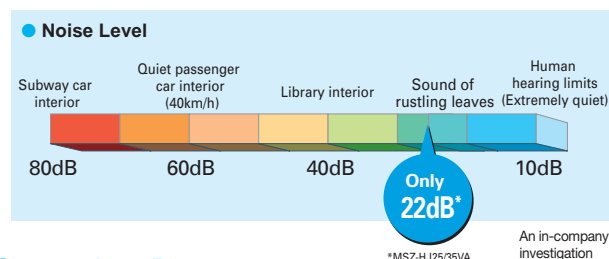
DC Inverter

25/35 SEER A
25/35 SCOP A
50/60/71 SEER A+
50/60/71 SCOP A+

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.



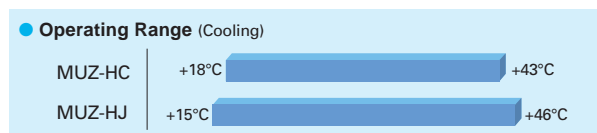
Long Piping Length

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



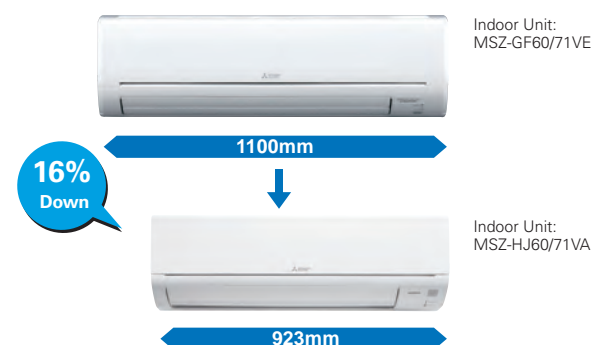
Only 799mm width

Outdoor Unit: MUZ-HJ25/35VA



Only 699mm width

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



MSZ-H SERIES

Indoor Unit

R410A

MSZ-HJ25/35/50VA

MSZ-HJ60/71VA

Outdoor Unit

R410A

MUZ-HJ25/35VA

MUZ-HJ50VA

MUZ-HJ60/71VA

Remote Controller

25 / 35 / 50
MXZ-DM only

Type				Inverter Heat Pump									
Indoor Unit				MSZ-HJ25VA		MSZ-HJ35VA		MSZ-HJ50VA		MSZ-HJ60VA		MSZ-HJ71VA	
Outdoor Unit				MUZ-HJ25VA		MUZ-HJ35VA		MUZ-HJ50VA		MUZ-HJ60VA		MUZ-HJ71VA	
Refrigerant				R410A ⁽¹⁾									
Power Supply				Indoor Power supply 230V/Single/50Hz									
Source Outdoor (V / Phase / Hz)													
Cooling	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 ⁽³⁾				5.1	5.1	6.0	6.0	5.6				
	Energy efficiency class				A	A	A+	A+	A+				
	Capacity			Rated	kW	2.5	3.15	5.0	6.1	7.1			
				Min-Max	kW	1.3 - 3.0	1.4 - 3.5	1.3 - 5.0	1.7 - 7.1	1.8 - 7.1			
Heating (Average Season) ⁽⁴⁾	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)				
	Declared Capacity			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)			
				at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)			
				at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)			
	Back up heating capacity			kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)				
Annual electricity consumption ⁽²⁾			kWh/a	698	885	1267	1544	1854					
Operating Current (Max)	SCOP ⁽⁴⁾				3.8	3.8	4.2	4.1	4.0				
	Energy efficiency class				A	A	A+	A+	A+				
	Capacity			Rated	kW	3.15	3.6	5.4	6.8	8.1			
				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			
	Input			Rated	kW	A	5.8	6.5	9.8	12.5			
Indoor Unit	Operating Current(Max)			A	0.3	0.3	0.4	0.5	0.5				
	Dimensions			H*W*D	mm	290-799-232	290-799-232	290-799-232	305-923-250	305-923-250			
	Weight			kg	9	9	9	13	13				
	Air Volume (SLo-Lo-Mid-Hi-SH ⁽⁵⁾) (Dry/Wet)			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			
				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			
Outdoor Unit	(SLo-Lo-Mid-Hi-SH ⁽⁵⁾)			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	550-840-285	880-840-330	880-840-330			
	Weight			kg	24	25	36	55	55				
	Air Volume			Cooling	m³/min	31.5	31.5	36.3	47.9	49.3			
				Heating	m³/min	31.5	31.5	34.8	47.9	47.9			
Ext. Piping	Sound Level (SPL)			Cooling	dB(A)	50	50	50	55	55			
				Heating	dB(A)	50	50	51	55	55			
	Sound Level (PWL)			Cooling	dB(A)	63	64	64	65	66			
	Operating Current (Max)			A	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			
Guaranteed Operating Range (Outdoor)	Max.Length			Out-In	m	20	20	20	30	30			
	Max.Height			Out-In	m	12	12	12	15	15			
Cooling				°C	+15 ~ +46	+15 ~ +46	+15 ~ +46	+15 ~ +46	+15 ~ +46	+15 ~ +46			
Heating				°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24			

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

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

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

(3) 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 00 for heating (warmer season) specifications.

MSZ-HR SERIES

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

R32

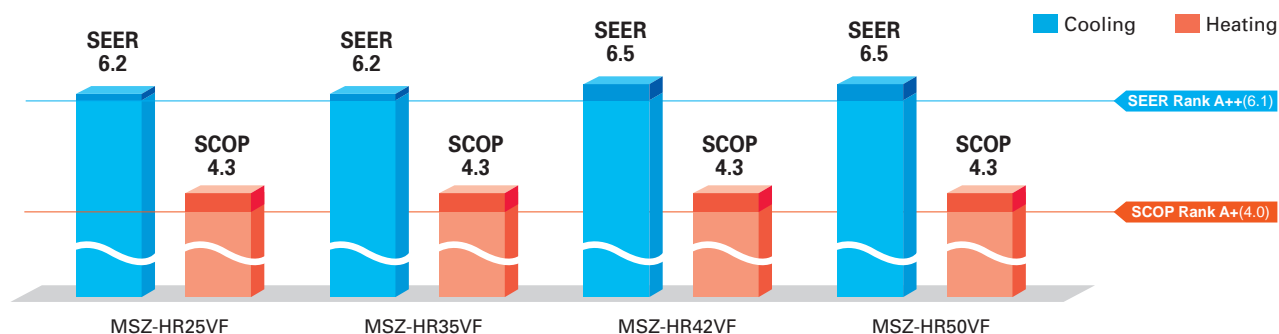
MSZ-HR25/35/42/50VF



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



All models in the series, from capacity 25 to 50, have achieved the "Rank A++" for SEER and "Rank A+" for SCOP as energy-savings rating, thanks to Mitsubishi Electric's inverter technologies which are adopted to provide automatic adjustment of operation load according to need.



Simple and Friendly Design

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



Wi-Fi and System Control

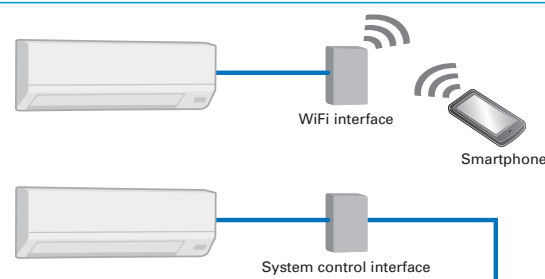
Wi-Fi Interface (Optional)

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

System Control Interface (Optional)

- Remote on/off operation is possible by input to the connector.
- Depending on the interface used, connecting a wired remote-control such as the PAR-40MAA is possible.
- Centralised control is possible when connected to M-NET.

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



MSZ-HR SERIES



Indoor Unit

R32



MSZ-HR25/35/42/50VF

Outdoor Unit



MUZ-HR25VF



MUZ-HR35VF



MUZ-HR42/50VF

Remote Controller



Type			Inverter Heat Pump											
Indoor Unit			MSZ-HR25VF		MSZ-HR35VF		MSZ-HR42VF		MSZ-HR50VF					
Outdoor Unit			MUZ-HR25VF		MUZ-HR35VF		MUZ-HR42VF		MUZ-HR50VF					
Refrigerant			R32 ⁽¹⁾											
Power Supply	Source		Indoor Power supply											
	Outdoor (V / Phase / Hz)		230V/Single/50Hz											
Cooling	Design load		kW		2.5		3.4		4.2		5.0			
	Annual electricity consumption ⁽²⁾		kWh/a		141		191		226		269			
	SEER ⁽⁴⁾				6.2		6.2		6.5		6.5			
	Energy efficiency class				A++		A++		A++		A++			
	Capacity		Rated		kW		2.5		3.4		4.2		5.0	
			Min-Max		kW		0.5-2.9		0.9-3.4		1.1-4.6		1.3-5.0	
Total Input			Rated		kW		0.800		1.210		1.340		2.050	
Heating (Average Season) ⁽³⁾	Design load		kW		1.9 (-10°C)		2.4 (-10°C)		2.9 (-10°C)		3.8 (-10°C)			
	Declared Capacity	at reference design temperature		kW		1.9 (-10°C)		2.4 (-10°C)		2.9 (-10°C)		3.8 (-10°C)		
		at bivalent temperature		kW		1.9 (-10°C)		2.4 (-10°C)		2.9 (-10°C)		3.8 (-10°C)		
		at operation limit temperature		kW		1.9 (-10°C)		2.4 (-10°C)		2.9 (-10°C)		3.8 (-10°C)		
	Back up heating capacity		kW		0.0 (-10°C)		0.0 (-10°C)		0.0 (-10°C)		0.0 (-10°C)			
	Annual electricity consumption ⁽²⁾		kWh/a		614		781		928		1224			
	SCOP ⁽⁴⁾				4.3		4.3		4.3		4.3			
	Energy efficiency class				A+		A+		A+		A+			
	Capacity		Rated		kW		3.15		3.6		4.7		5.4	
			Min-Max		kW		0.7-3.5		0.9-3.7		0.9-5.4		1.4-6.5	
Total Input			Rated		kW		0.850		0.975		1.300		1.550	
Operating Current (Max)			A		5.0		6.7		8.5		10.0			
Indoor Unit	Input		Rated		kW		0.020		0.028		0.032		0.039	
	Operating Current(Max)		A		0.2		0.27		0.3		0.36			
	Dimensions		H*W*D		mm		280-838-228		280-838-228		280-838-228		280-838-228	
	Weight		kg		8.5		8.5		9		9			
	Air Volume (Lo-Mid-Hi-SH) ⁽⁵⁾ (Dry/Wet)	Cooling	m³/min		3.6 - 5.4 - 7.2 - 9.7		3.6 - 5.6 - 7.8 - 11.7		6.0 - 8.7 - 10.8 - 13.1		6.4 - 9.2 - 11.2 - 13.1			
		Heating	m³/min		3.3 - 5.4 - 7.4 - 10.1		3.3 - 5.4 - 7.4 - 10.5		5.6 - 7.9 - 10.8 - 13.4		6.1 - 8.3 - 11.2 - 14.5			
	Sound Level (SPL) (Lo-Mid-Hi-SH) ⁽⁵⁾	Cooling	dB(A)		21 - 30 - 37 - 43		22 - 31 - 38 - 46		24 - 34 - 39 - 45		28 - 36 - 40 - 45			
		Heating	dB(A)		21 - 30 - 37 - 43		21 - 30 - 37 - 44		24 - 32 - 40 - 46		27 - 34 - 41 - 47			
	Sound Level (PWL)		Cooling		dB(A)		57		60		60		60	
	Dimensions		H*W*D		mm		538-699-249		538-699-249		550-800-285		550-800-285	
Outdoor Unit	Weight		kg		23		24		34		35			
	Air Volume	Cooling	m³/min		30.3		32.2		30.4		30.4			
		Heating	m³/min		30.3		32.2		32.7		32.7			
	Sound Level (SPL)	Cooling	dB(A)		50		51		50		50			
		Heating	dB(A)		50		51		51		51			
	Sound Level (PWL)	Cooling	dB(A)		63		64		64		64			
		Operating Current (Max)		A		4.8		6.4		8.2		9.6		
	Breaker Size		A		10		10		10		12			
Ext. Piping	Diameter		Liquid/Gas		mm		6.35 / 9.52		6.35 / 9.52		6.35 / 9.52			
	Max.Length		Out-In		m		20		20		20			
	Max.Height		Out-In		m		12		12		12			
Guaranteed Operating Range (Outdoor)			Cooling	°C		-10 ~ +46		-10 ~ +46		-10 ~ +46		-10 ~ +46		
			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 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 00 for heating (warmer season) specifications.

MFZ SERIES

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

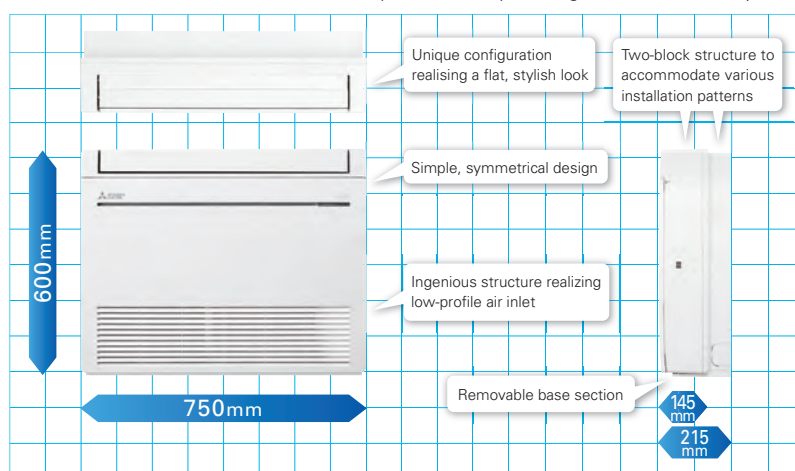
R410A

MFZ-KJ25/35/50VE2

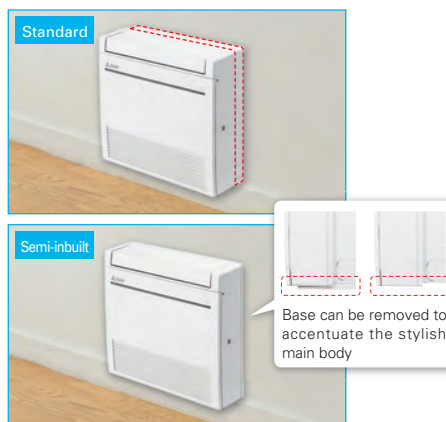


Simple , Flat Design

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

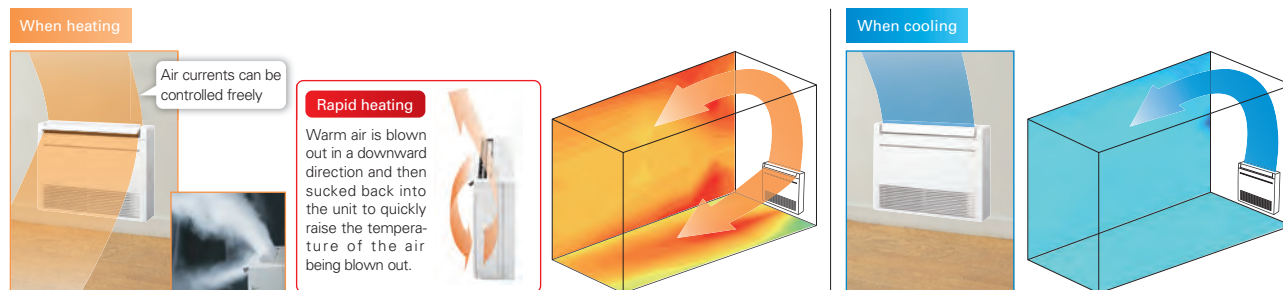


Images of installed unit



Multi-flow Vane

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



Excellent Energy-saving Performance



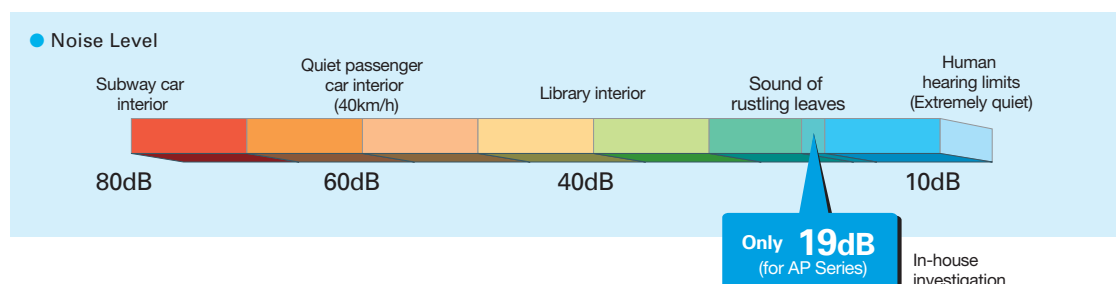
SEER A+++ (25) and SCOP A+ (25/35/50) ratings have been achieved through development focusing on compliance with European energy-related product (ErP) regulations.

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.



MFZ-KJ SERIES



Indoor Unit

R410A



MFZ-KJ25/35/50VE2

Outdoor Unit

R410A



MUFZ-KJ25/35VE



MUFZ-KJ50VE

Remote Controller



Type				Inverter Heat Pump							
Indoor Unit				MFZ-KJ25VE2		MFZ-KJ35VE2		MFZ-KJ50VE2			
Outdoor Unit				MUFZ-KJ25VE		MUFZ-KJ35VE		MUFZ-KJ50VE			
Refrigerant				R410A ^(*)1)		R410A ^(*)1)		R410A ^(*)1)			
Power Supply		Source		Outdoor power supply							
Outdoor(V/Phase/Hz)				230 / Single / 50							
Cooling	Design load		kW	2.5		3.5		5.0			
	Annual electricity consumption ^(*)2)		kWh/a	102		150		266			
	SEER ^(*)4)			8.5		8.1		6.5			
	Capacity	Energy efficiency class		A+++		A++		A+			
		Rated	kW	2.5		3.5		5.0			
		Min-Max	kW	0.5 - 3.4		0.5 - 3.7		1.6 - 5.7			
Heating (Average Season)	Total Input		Rated	kW	0.540		0.940		1.410		
	Design load			kW	3.4(-10°C)		3.5(-10°C)		4.4(-10°C)		
	Declared Capacity	at reference design temperature		kW	3.4(-10°C)		3.5(-10°C)		4.4(-10°C)		
		at bivalent temperature		kW	3.4(-10°C)		3.5(-10°C)		4.4(-10°C)		
		at operation limit temperature		kW	2.4(-15°C)		2.9(-15°C)		6.0(-15°C)		
	Back up heating capacity			kW	0.0(-10°C)		0.0(-10°C)		0.0(-10°C)		
	Annual electricity consumption ^(*)2)			kWh/a	1059		1110		1406		
	SCOP ^(*)4)				4.5		4.4		4.3		
	Capacity	Energy efficiency class				A+		A+		A+	
		Rated	kW			3.4		4.3		6.0	
	Min-Max	kW			1.2 - 4.6		1.2 - 5.5		2.2 - 8.2		
	Total Input	Rated	kW			0.770		1.100		1.610	
Operating Current (Max)				A	9.4		9.4		14.0		
Indoor Unit	Input		Rated	kW	0.016		0.016		0.038		
	Operating Current(Max)			A	0.17		0.17		0.34		
	Dimensions		H*W*D	mm	600-750-215		600-750-215		600-750-215		
	Weight			kg	15		15		15		
	Air Volume (SLo-Lo-Mid-Hi-SHi ^(*)3))	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		
		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) (SLo-Lo-Mid-Hi-SHi ^(*)3))	Cooling	dB(A)		20 - 25 - 30 - 35 - 39		20 - 25 - 30 - 35 - 39		27 - 31 - 35 - 39 - 44		
		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*W*D	mm	550-800-285		550-800-285		880-840-330		
Outdoor 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(Max)			A	9.2		9.2		13.6		
	Breaker Size			A	10		10		16		
Ext. Piping	Diameter		Liquid/Gas	mm	6.35/9.52		6.35/9.52		6.35/12.7		
	Max.Length			m	20		20		30		
	Max.Height			m	12		12		15		
Guaranteed Operating Range		Cooling	°C	-10 ~ +46		-10 ~ +46		-10 ~ +46			
[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 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".

MLZ SERIES

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

R32
R410A
Multi

MLZ-KP25/35/50VF

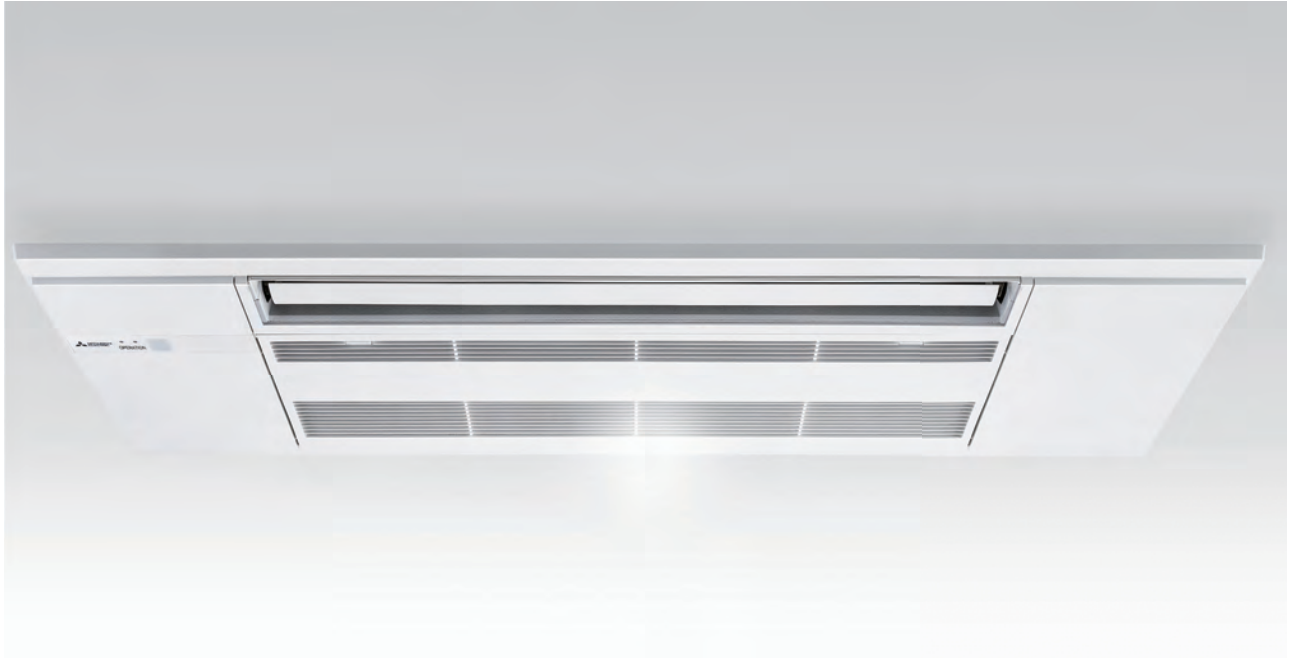


reddot award 2018
winner



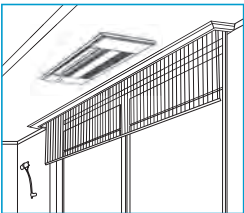
Slim Design

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



Ceiling Mounted

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



Slim Body

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



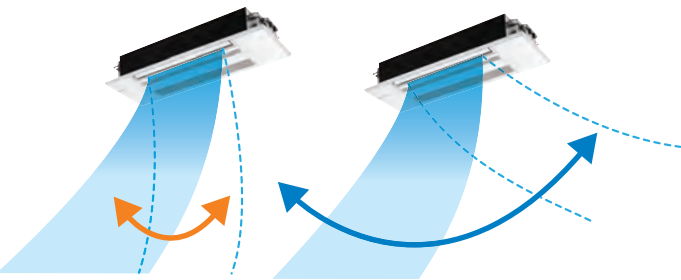
Set Airflow According to Ceiling Height

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

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

Auto Vane Control

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



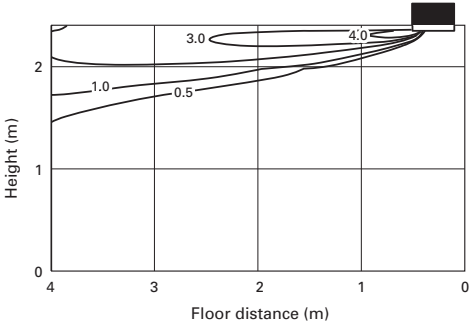
Up and Down Left and Right

*Only available when Econo Cool is set.

Horizontal Airflow

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

[Horizontal Airflow]
Model name: MLZ-KP35VF
Ceiling height: 2.4m
Model: Cooling



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)

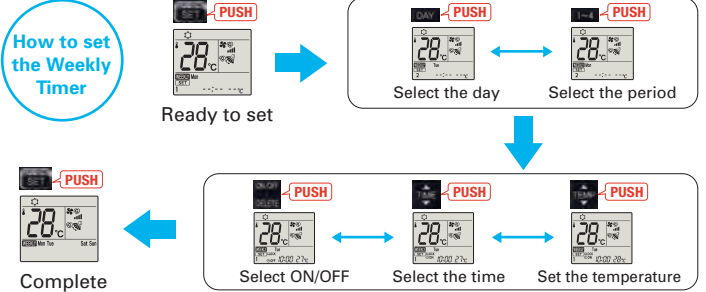
	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
6:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
8:00	Automatically changes to high-power operation at wake-up time						
10:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00	Automatically turned off during work hours					Midday is warmer, so the temperature is set lower	
14:00							
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
20:00	Automatically turns on, synchronized with arrival at home					Automatically raises temperature setting to match time when outside-air temperature is low	
22:00							
(during sleeping hours)	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 10°C	ON 10°C
	Automatically lowers temperature at bedtime for energy-saving operation at night						

Settings Pattern Settings: Input up to four settings for each day
Settings: •Start/Stop operation •Temperature setting *The operation mode cannot be set.

Easy set-up using dedicated buttons



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



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

Easy Installation

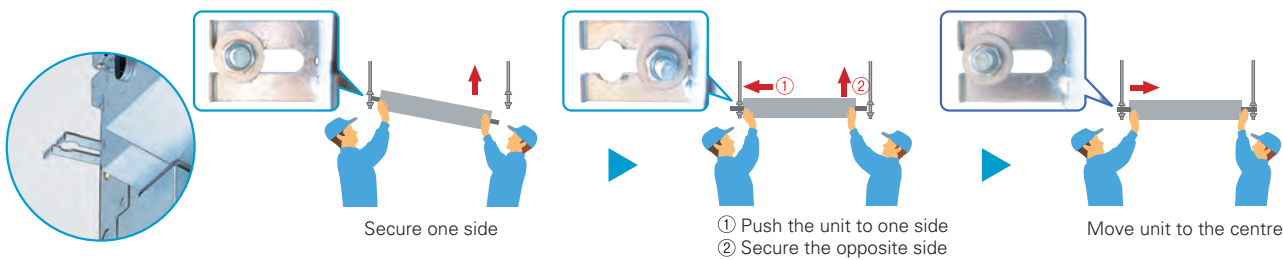
Industry leading Slim Body

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

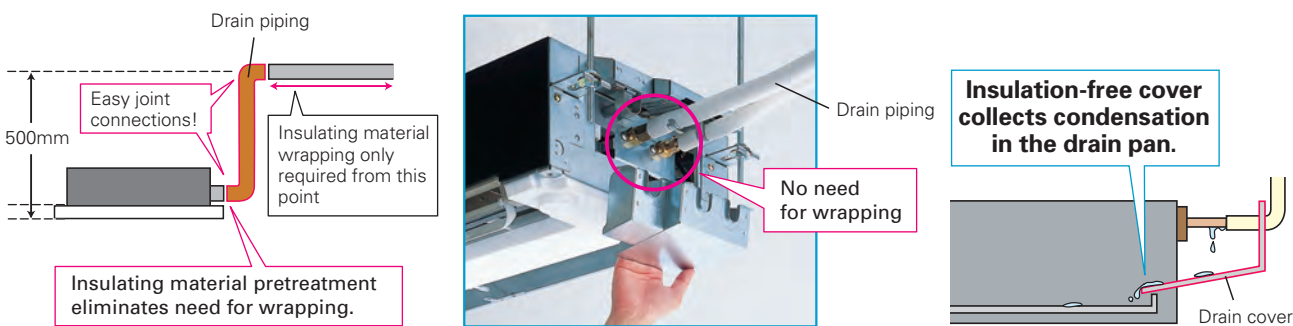


Temporary hanging hook

Work efficiency has improved during installation.

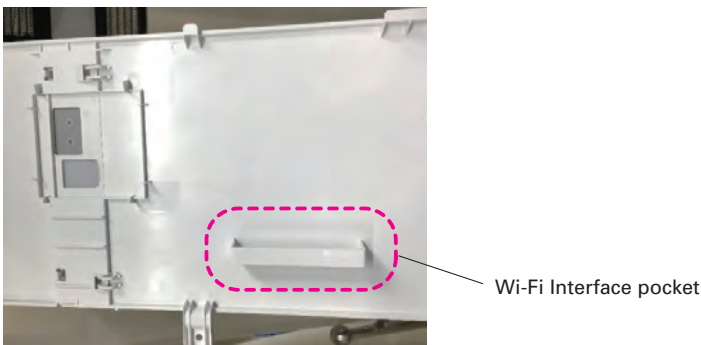


Drain Piping Supporters + Drain Cover



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



Indoor Unit

R32



MLZ-KP25/35/50VF



Panel

MLP-444W

Outdoor Unit



SUZ-M25/35VA



SUZ-M50VA

Remote Controller



Enclosed in MLZ-KP



*optional



*optional



*optional



Type		Inverter Heat Pump			
Indoor Unit		MLZ-KP25VF	MLZ-KP35VF	MLZ-KP50VF	
Outdoor Unit		SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	
Refrigerant		R32 ⁽¹⁾			
Power Supply	Source	Outdoor Power supply			
	Outdoor (V / Phase / Hz)	230V / Single / 50Hz			
Cooling	Design load	kW	2.5	3.5	5.0
	Annual electricity consumption ⁽²⁾	kWh/a	141	175	260
	SEER ⁽⁴⁾		6.2	7.0	6.7
	Energy efficiency class		A++	A++	A++
	Capacity				
	Rated	kW	2.5	3.5	5.0
Heating (Average Season)	Capacity				
	Min-Max	kW	1.4 - 3.2	0.8 - 3.9	1.7 - 5.6
	Total Input	Rated	0.59	0.94	1.38
	Design load	kW	2.2	2.6	4.3
	Declared Capacity				
	at reference design temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.8 (-10°C)
Heating (Average Season)	at bivalent temperature	kW	2.0 (-7°C)	2.3 (-7°C)	3.8 (-7°C)
	at operation limit temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.8 (-10°C)
	Back up heating capacity	kW	0.2	0.3	0.5
	Annual electricity consumption ⁽²⁾	kWh/a	697	791	1397
	SCOP ⁽⁴⁾		4.4	4.6	4.3
	Energy efficiency class		A+	A++	A+
Operating Current (Max)	Capacity				
	Rated	kW	3.2	4.1	6.0
	Min-Max	kW	1.4 - 4.2	1.1 - 4.9	1.7 - 7.2
	Total Input	Rated	0.80	1.10	1.86
	Input	A	7.2	8.9	13.9
	Rated	kW	0.04	0.04	0.04
Indoor Unit	Operating Current(Max)	A	0.40	0.40	0.40
	Dimensions	H*W*D	mm	185-1102-360	185-1102-360
	Weight	kg	15.5	15.5	15.5
	Air Volume (SLo-Lo-Mid-Hi ⁽³⁾)(Dry/Wet)				
	Cooling	m ³ /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
	Heating	m ³ /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
Panel	Sound Level (SPL) (SLo-Lo-Mid-Hi ⁽³⁾)				
	Cooling	dB(A)	27-31-34-38	27-32-36-40	29-36-41-47
	Heating	dB(A)	26-27-34-37	29-32-36-40	26-37-42-48
	Sound Level (PWL)	dB(A)	52	53	59
	Dimensions	H*W*D	mm	24-1200-424	24-1200-424
	Weight	kg	3.5	3.5	3.5
Outdoor Unit	Dimensions	H*W*D	mm	550-800-285	550-800-285
	Weight	kg	30	35	41
	Air Volume				
	Cooling	m ³ /min	36.3	34.3	45.8
	Heating	m ³ /min	34.6	32.7	43.7
	Sound Level (SPL)				
Ext. Piping	Cooling	dB(A)	45	48	48
	Heating	dB(A)	46	48	49
	Sound Level (PWL)	dB(A)	59	59	64
	Operating Current (Max)	A	6.8	8.5	13.5
	Breaker Size	A	10	10	20
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/12.7
Guaranteed Operating Range (Outdoor)	Max.Length	Out-In	m	20	30
	Max.Height	Out-In	m	12	30
	Cooling	°C	-10~+46	-10~+46	-15~+46
Guaranteed Operating Range (Outdoor)	Heating	°C	-10~+24	-10~+24	-10~+24

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

Type			Inverter Heat Pump						
Indoor Unit			MSZ-LN25VG		MSZ-LN35VG		MSZ-LN50VG		MSZ-LN60VG
Outdoor Unit			MUZ-LN25VG	MUZ-LN25VGHZ	MUZ-LN35VG	MUZ-LN35VGHZ	MUZ-LN50VG	MUZ-LN50VGHZ	MUZ-LN60VG
Refrigerant			R32 ^(*)						
Cooling	Design load	kW	2.5	2.5	3.5	3.5	5	5.0	6.1
	Annual electricity consumption ^(*)	kWh/a	83	83	128	130	205	230	285
	SEER		10.5	10.5	9.5	9.4	8.5	7.6	7.5
			Energy efficiency class						
Heating (Warmer Season)	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)
	Declared Capacity	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)
		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)
		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)
	Back up heating capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption ^(*)	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						
Heating (Colder Season)	Design load	kW	—	4.7 (-22°C)	—	5.9 (-22°C)	—	8.8 (-22°C)	—
	Declared Capacity	at reference design temperature	kW	—	2.6 (-22°C)	—	3.4 (-22°C)	—	5.1 (-22°C)
		at bivalent temperature	kW	—	3.2 (-10°C)	—	4.0 (-10°C)	—	6.0 (-10°C)
		at operation limit temperature	kW	—	2.3 (-25°C)	—	3.1 (-25°C)	—	4.7 (-25°C)
	Back up heating capacity	kW	—	2.1 (-22°C)	—	2.5 (-22°C)	—	3.7 (-22°C)	—
	Annual electricity consumption ^(*)	kWh/a	—	2425	—	3075	—	5340	—
	SCOP		—	4.0	—	4.0	—	3.4	—
			Energy efficiency class						
			—	A ⁺	—	A ⁺	—	A	—

Type			Inverter Heat Pump						
Indoor Unit			MSZ-AP25VG		MSZ-AP35VG		MSZ-AP42VG		MSZ-AP50VG
Outdoor Unit			MUZ-AP25VG	MUZ-AP25VGH	MUZ-AP35VG	MUZ-AP35VGH	MUZ-AP42VG	MUZ-AP42VGH	MUZ-AP50VG
Refrigerant			R32 ^(*)						
Cooling	Design load	kW	2.5	2.5	3.5	3.5	4.2	4.2	5.0
	Annual electricity consumption ^(*)	kWh/a	116	116	171	171	196	196	246
	SEER		7.6	7.6	7.2	7.2	7.5	7.5	7.2
			Energy efficiency class						
Heating (Warmer Season)	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)
	Declared Capacity	at reference design temperature	kW	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)
		at bivalent temperature	kW	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)
		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)
	Back up heating capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption ^(*)	kWh/a	337	337	923 / 418	417	507	507	563
	SCOP		5.4	5.4	5.4	5.4	5.8	5.8	5.7
			Energy efficiency class						
			A ⁺⁺⁺	A ⁺⁺⁺	A ⁺⁺⁺	A ⁺⁺⁺	A ⁺⁺⁺	A ⁺⁺⁺	A ⁺⁺⁺

Type			Inverter Heat Pump				
Indoor Unit			MSZ-FH25VE2		MSZ-FH35VE2		MSZ-FH50VE2
Outdoor Unit			MUZ-FH25VE	MUZ-FH25VEHZ	MUZ-FH35VE	MUZ-FH35VEHZ	MUZ-FH50VE
Refrigerant			R410A ^(*)				
Cooling	Design load	kW	2.5	2.5	3.5	3.5	5.0
	Annual electricity consumption ^(*)	kWh/a	96	96	138	138	244
	SEER		9.1	9.1	8.9	8.9	7.2
			Energy efficiency class				
Heating (Warmer Season)	Design load	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)
	Declared Capacity	at reference design temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)
		at bivalent temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)
		at operation limit temperature	kW	2.5 (-15°C)	1.7 (-25°C)	3.2 (-15°C)	2.6 (-25°C)
	Back up heating capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption ^(*)	kWh/a	376	397	429	471	614
	SCOP		6.3	6.3	6.5	4.8 / 6.5	5.7
			Energy efficiency class				
			A ⁺⁺⁺	A ⁺⁺⁺	A ⁺⁺⁺	A ⁺⁺⁺	A ⁺⁺⁺

Type			Inverter Heat Pump			
Indoor Unit			MSZ-EF25VG		MSZ-EF35VG	
Outdoor Unit			MUZ-EF25VG	MUZ-EF25VGH	MUZ-EF35VG	MUZ-EF35VGH
Refrigerant			R32 ^(*)			
Cooling	Design load	kW	2.5	2.5	3.5	3.5
	Annual electricity consumption ^(*)	kWh/a	96	96	139	139
	SEER		9.1	9.1	8.8	8.8
			Energy efficiency class			
Heating (Warmer Season)	Design load	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)
	Declared Capacity	at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)
		at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)
		at operation limit temperature	kW	2.0 (-15°C)	2.0 (-15°C)	2.4 (-15°C)
	Back up heating capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption ^(*)	kWh/a	311	311	398	398
	SCOP		5.9	5.9	5.6	5.6
			Energy efficiency class			
			A ⁺⁺⁺	A ⁺⁺⁺	A ⁺⁺⁺	A ⁺⁺⁺

Type			Inverter Heat Pump					
Indoor Unit			MSZ-SF25VE3		MSZ-SF35VE3		MSZ-SF42VE3	
Outdoor Unit			MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH	MUZ-SF42VE	MUZ-SF42VEH
Refrigerant			R410A ^(*)					
Cooling	Design load	kW	2.5	2.5	3.5	3.5	4.2	4.2
	Annual electricity consumption ^(*)	kWh/a	116	116	171	171	196	196
	SEER		7.6	7.6	7.2	7.2	7.5	7.5
			Energy efficiency class					
Heating (Warmer Season)	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)
	Declared Capacity	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)
		at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)
		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)
	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)
	Annual electricity consumption ^(*)	kWh/a	337	337	923 / 418	417	507	507
	SCOP		5.4	5.4	5.4	5.4	5.8	5.8
			Energy efficiency class					
			A ⁺⁺⁺	A ⁺⁺⁺	A ⁺⁺⁺	A ⁺⁺⁺	A ⁺⁺⁺	A ⁺⁺⁺

Type			Inverter Heat Pump			
Indoor Unit			MSZ-GF60VE2	MSZ-GF71VE2	MSZ-WN25VA	MSZ-WN35VA
Outdoor Unit			MUZ-GF60VE	MUZ-GF71VE	MUZ-WN25VA	MUZ-WN35VA
Refrigerant			R410A ^(*)			
Cooling	Design load	kW	6.1	7.1	2.5	3.1
	Annual electricity consumption ⁽²⁾	kWh/a	311	364	141	173
	SEER		6.8	6.8	6.2	6.2
	Energy efficiency class		A++	A++	A++	A++
Heating (Warmer Season)	Design load	kW	2.5 (2°C)	3.7 (2°C)	1.1 (2°C)	1.3 (2°C)
	Declared Capacity	at reference design temperature	kW	2.5 (2°C)	3.7 (2°C)	1.1 (2°C)
		at bivalent temperature	kW	2.5 (2°C)	3.7 (2°C)	1.1 (2°C)
		at operation limit temperature	kW	3.7 (-15°C)	5.4 (-15°C)	1.6 (-15°C)
	Back up heating capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption ⁽²⁾	kWh/a	664	963	304	362
	SCOP ^(*)		5.3	5.4	5.0	5.0
	Energy efficiency class		A+++	A+++	A++	A++

Type			Inverter Heat Pump					
Indoor Unit			MSZ-HJ25VA	MSZ-HJ35VA	MSZ-HJ50VA	MSZ-HJ60VA	MSZ-HJ71VA	MSZ-DM25VA
Outdoor Unit			MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA	MUZ-HJ60VA	MUZ-HJ71VA	MUZ-DM35VA
Refrigerant			R410A ^(*)					
Cooling	Design load	kW	2.5	3.1	5.0	6.1	7.1	2.5
	Annual electricity consumption ⁽²⁾	kWh/a	171	212	292	354	441	149
	SEER		5.1	5.1	6.0	6.0	5.6	5.8
	Energy efficiency class		A	A	A+	A+	A+	A+
Heating (Warmer Season)	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)
	Declared Capacity	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)
		at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	2.5 (2°C)	2.9 (2°C)
		at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
	Back up heating capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption ⁽²⁾	kWh/a	356	426	539	674	813	325
	SCOP		4.3	4.3	5.5	5.1	4.9	4.7
	Energy efficiency class		A+	A+	A+++	A+++	A++	A++

Type			Inverter Heat Pump			
Indoor Unit			MSZ-HR25VF	MSZ-HR35VF	MSZ-HR42VF	MSZ-HR50VF
Outdoor Unit			MUZ-HR25VF	MUZ-HR35VF	MUZ-HR42VF	MUZ-HR50VF
Refrigerant			R32 ^(*)			
Cooling	Design load	kW	2.5	3.4	4.2	5.0
	Annual electricity consumption ⁽²⁾	kWh/a	141	191	226	269
	SEER		6.2	6.2	6.5	6.5
	Energy efficiency class		A++	A++	A++	A++
Heating (Warmer Season)	Design load	kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)
	Declared Capacity	at reference design temperature	kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)
		at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)
		at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)
	Back up heating capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption ⁽²⁾	kWh/a	289	344	427	558
	SCOP		5.3	5.2	5.2	5.2
	Energy efficiency class		A+++	A+++	A+++	A+++

Type			Inverter Heat Pump					
Indoor Unit			MFZ-KJ25VE2		MFZ-KJ35VE2		MFZ-KJ50VE2	
Outdoor Unit			MUFZ-KJ25VE	MUFZ-KJ25VEHZ	MUFZ-KJ35VE	MUFZ-KJ35VEHZ	MUFZ-KJ50VE	MUFZ-KJ50VEHZ
Refrigerant			R410A ^(*)					
Cooling	Design load	kW	2.5	2.5	3.5	3.5	5.0	5.0
	Annual electricity consumption ⁽²⁾	kWh/a	102	102	150	150	266	266
	SEER		8.5	8.5	8.1	8.1	6.5	6.5
	Energy efficiency class		A+++	A+++	A++	A++	A++	A++
Heating (Warmer Season)	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)
	Declared Capacity	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)
		at bivalent temperature	kW	1.9 (2°C)	1.9 (2°C)	1.9 (2°C)	2.0 (2°C)	2.4 (2°C)
		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)
	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)
	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+++

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

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

(*) 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.

S

SERIES



SELECTION

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

SELECT INDOOR UNIT

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

R32

R410A



GOOD DESIGN

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	✓	✓	✓

R32

R410A



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

SELECT OUTDOOR UNIT


There is one outdoor unit for respective indoor units.

R32




SUZ-M25/35VA

R32




SUZ-M50VA

R32




SUZ-M60/71VA

R410A



SUZ-KA25/35VA6

R410A



SUZ-KA50/60/71VA6

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

SLZ SERIES

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

R32
R410A

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



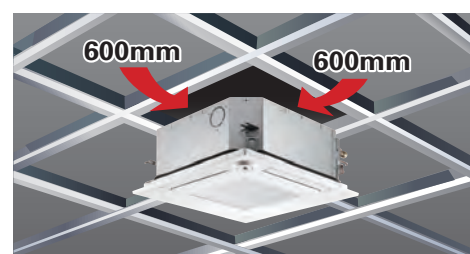
New lineup

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

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

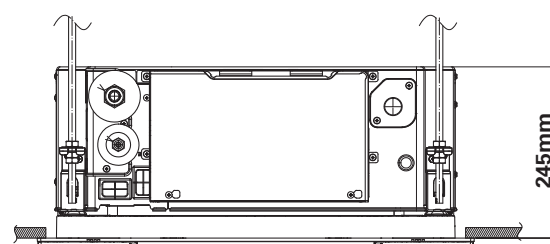
Beautiful design

The straight-line form introduced has resulted in a beautiful square design. Its high affinity ensures the ability to blend in seamlessly with any interior. The indoor unit is an ideal match for office or store use. Of course, design matched 2x2 (600mm*600mm) ceiling construction specifications.



The height above ceiling of 245mm

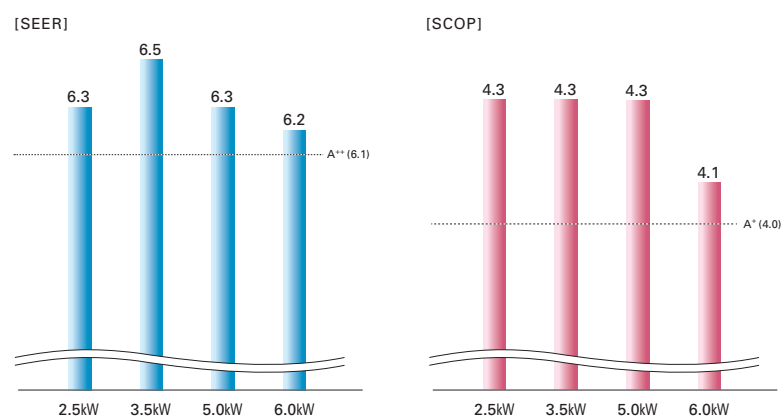
The height above ceiling of 245mm enables fitting into narrow ceiling space. Installation is simple, even when the ceiling spaces are narrow to make the ceilings higher. Of course, in addition to our products, replacing competitors' product is simplified too.



Energy-saving Performance*

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

*In case of connecting with SUZ-KA-VA6



Quietness

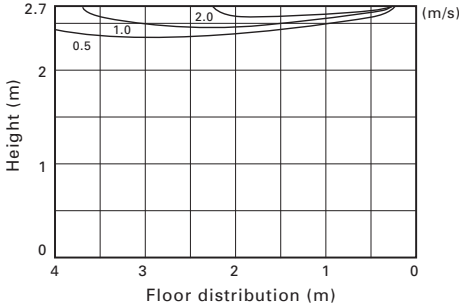
Low sound level has been realized by introduction of 3D turbo fan. New SLZ can give users quieter and move comfortable room condition.



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

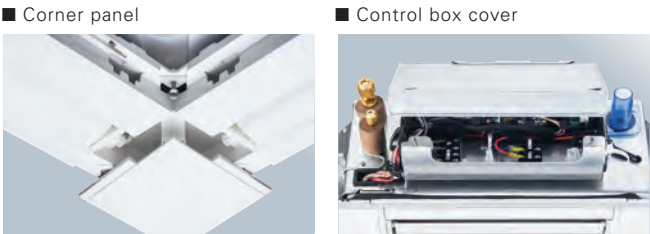
Temporary hanging hook

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.



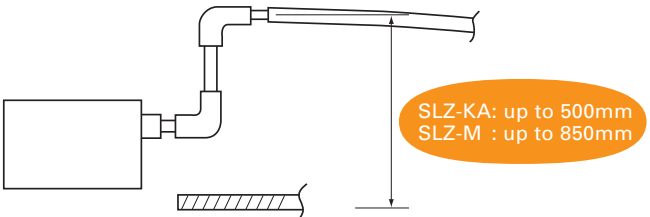
No need to remove screws

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



Drain lift

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



3D i-see Sensor for S & P SERIES

Detects number of people

Room occupancy energy-saving mode

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

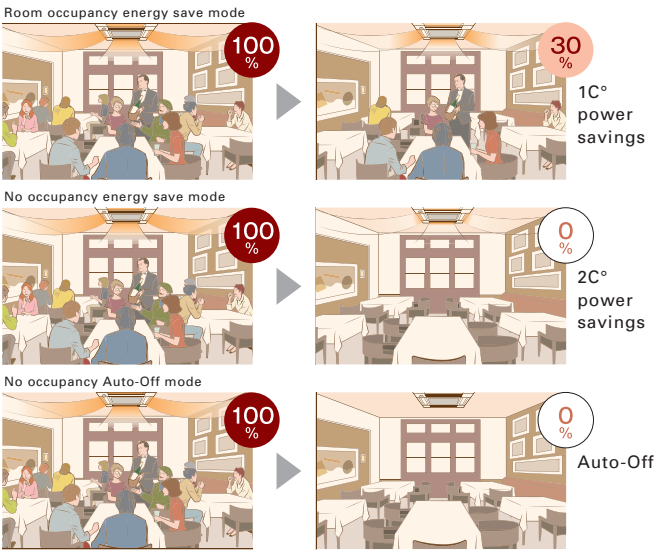
No occupancy energy-saving mode

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

No occupancy Auto-OFF mode*

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

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



*PAR-40MAA 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-40MAA or PAR-SL100A-E is required for each setting.

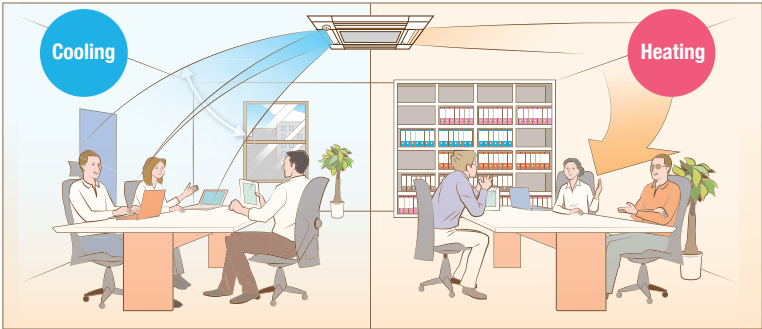
Seasonal airflow*

<When cooling>

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

<When heating>

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



*PAR-40MAA is required for each setting.

Simultaneous Multi-system*

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

* Only for RA410A connection

Power Inverter Combination		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



Indoor Unit

R32
R410A



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

R32



SUZ-M25/35VA

R32



SUZ-M50VA

R32



SUZ-M60VA

Remote Controller



Enclosed in
SLP-2FALM/SLP-2FALME



*optional



*optional



*optional



Type				Inverter Heat Pump			
Indoor Unit				SLZ-M25FA	SLZ-M35FA	SLZ-M50FA	SLZ-M60FA
Outdoor Unit				SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA
Refrigerant				R32* ¹			
Power Supply	Source			Outdoor power supply			
	Outdoor (V/Phase/Hz)			230 / Single / 50			
Cooling	Capacity	Rated	kW	2.5	3.5	4.6	5.7
		Min - Max	kW	1.4 - 3.2	0.7 - 3.9	1.0 - 5.2	1.5 - 6.3
	Total Input	Rated	kW	0.65	1.09	1.35	1.67
	Design Load		kW	2.5	3.5	4.6	5.7
	Annual Electricity Consumption * ²		kWh/a	139	183	253	321
	SEER			6.3	6.7	6.3	6.2
		Energy Efficiency Class			A++	A++	A++
Heating (Average Season)	Capacity	Rated	kW	3.2	4.0	5.0	6.4
		Min - Max	kW	1.3 - 4.2	1.0 - 5.0	1.3 - 5.5	1.6 - 7.3
	Total Input	Rated	kW	0.88	1.07	1.56	2.13
	Design Load		kW	2.2	2.6	3.6	4.6
	Declared Capacity	at reference design temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.1 (-10°C)
		at bivalent temperature	kW	2.0 (-7°C)	2.3 (-7°C)	3.2 (-7°C)	4.1 (-7°C)
		at operation limit temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.1 (-10°C)
	Back Up Heating Capacity		kW	0.2	0.3	0.4	0.5
	Annual Electricity Consumption * ²		kWh/a	716	843	1191	1559
	SCOP			4.3	4.3	4.2	4.1
	Energy Efficiency Class			A+	A+	A+	A+
Operating Current (max)			A	7.0	8.7	13.7	15.1
Indoor Unit	Input	Rated	kW	0.02	0.02	0.02	0.03
	Operating Current (max)		A	0.17	0.2	0.24	0.32
	Dimensions <Panel>	H x W x D	mm	245 - 570 - 570	245 - 570 - 570	245 - 570 - 570	245 - 570 - 570
	Weight <Panel>		kg	15	15	15	15
	Air Volume [Lo-Mid-Hi]		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
	Sound Level (SPL) [Lo-Mid-Hi]		dB(A)	24 - 26 - 28	25 - 28 - 31	25 - 30 - 34	27 - 34 - 39
	Sound Level (PWL)		dB(A)	45	48	51	56
Outdoor Unit	Dimensions	H x W x D	mm	550 - 800 - 285	550 - 800 - 285	714 - 800 - 285	880 - 840 - 330
	Weight		kg	30	35	41	54
	Air Volume	Cooling	m³/min	36.3	34.3	45.8	50.1
		Heating	m³/min	34.6	32.7	43.7	50.1
	Sound Level (SPL)	Cooling	dB(A)	45	48	48	49
		Heating	dB(A)	46	48	49	51
	Sound Level (PWL)	Cooling	dB(A)	59	59	64	65
	Operating Current (max)		A	6.8	8.5	13.5	14.8
	Breaker Size		A	10	10	20	20
	Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7
Max. Length		Out-In	m	20	20	30	30
Max. Height		Out-In	m	12	12	30	30
Guaranteed Operating Range [Outdoor]		Cooling	°C	-10~+46	-10~+46	-15~+46	-15~+46
		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.

SLZ-M SERIES



Indoor Unit

R32
R410A



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



*optional



*optional



*optional



Type				Inverter Heat Pump				
Indoor Unit				SLZ-M15FA	SLZ-M25FA	SLZ-M35FA	SLZ-M50FA	SLZ-M60FA
Outdoor Unit				for Multi connection	SUZ-KA25VA6	SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6
Refrigerant				R410A* ^{†1}				
Power Supply	Source			Outdoor power supply				
	Outdoor (V/Phase/Hz)			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 Consumption* ²		kWh/a	—	144	188	256	316
	SEER			—	6.3	6.5	6.3	6.2
		Energy Efficiency Class			—	A++	A++	A++
Heating (Average Season)	Capacity	Rated	kW	—	3.2	4.0	5.0	6.4
		Min - Max	kW	—	1.3 - 4.2	1.7 - 5.0	1.7 - 6.0	2.5 - 7.4
	Total Input	Rated	kW	—	0.886	1.108	1.558	2.278
	Design Load		kW	—	2.2	2.6	3.6	4.6
	Declared Capacity	at reference design temperature	kW	—	2.0 (−10°C)	2.3 (−10°C)	3.2 (−10°C)	4.0 (−10°C)
		at bivalent temperature	kW	—	2.0 (−7°C)	2.3 (−7°C)	3.2 (−7°C)	4.0 (−7°C)
		at operation limit temperature	kW	—	2.0 (−10°C)	2.3 (−10°C)	3.2 (−10°C)	4.0 (−10°C)
	Back Up Heating Capacity		kW	—	0.2	0.3	0.4	0.4
	Annual Electricity Consumption* ²		kWh/a	—	716	845	1172	1572
	SCOP			—	4.3	4.3	4.3	4.1
		Energy Efficiency Class			—	A+	A+	A+
Operating Current (max)			A	—	7.2	8.4	12.3	14.4
Indoor Unit	Input	Rated	kW	0.02	0.02	0.02	0.03	0.04
	Operating Current (max)		A	0.17	0.20	0.24	0.32	0.43
	Dimensions <Panel>	H × W × D	mm	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>
	Weight <Panel>		kg	15 <3>	15 <3>	15 <3>	15 <3>	15 <3>
	Air Volume [Lo-Mid-Hi]		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) [Lo-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 Unit	Dimensions	H × W × D	mm	—	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330	880 - 840 - 330
	Weight		kg	—	30	35	54	50
	Air Volume	Cooling	m³/min	—	32.6	36.3	44.6	40.9
		Heating	m³/min	—	34.7	34.8	44.6	49.2
	Sound Level (SPL)	Cooling	dB(A)	—	47	49	52	55
		Heating	dB(A)	—	48	50	52	55
	Sound Level (PWL)	Cooling	dB(A)	—	58	62	65	65
	Operating Current (max)		A	—	7.0	8.2	12.0	14.0
	Breaker Size		A	—	10	10	20	20
	Ext. Piping	Diameter	Liquid / Gas	mm	—	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7
Max. Length		Out-In	m	—	20	20	30	30
Max. Height		Out-In	m	—	12	12	30	30
Guaranteed Operating Range [Outdoor]			Cooling	°C	—	−10 ~ +46	−15 ~ +46	−15 ~ +46
			Heating	°C	—	−10 ~ +24	−10 ~ +24	−10 ~ +24

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

SEZ SERIES

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.

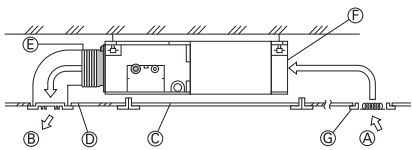
R32
R410A

SEZ-M25-71DA(L)



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 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

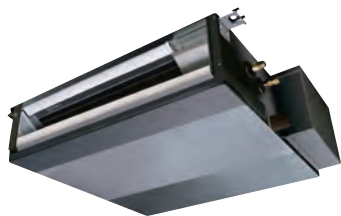
Drain Pump (Optional)

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



SUZ-M25/35VA



SUZ-M50VA



SUZ-M60/71VA

Remote Controller



Enclosed in
SEZ-M DAL



*optional
(for SEZ-M DA)



*optional
(for SEZ-M DA)



*optional
(for SEZ-M DA)



Type				Inverter Heat Pump					
Indoor Unit				SEZ-M25DA	SEZ-M35DA	SEZ-M50DA	SEZ-M60DA	SEZ-M71DA	
Outdoor Unit				SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA	
Refrigerant				R32* ¹					
Power Supply	Source	Outdoor power supply							
	Outdoor (V/Phase/Hz)	230 / Single / 50							
Cooling	Capacity	Rated	kW	2.5	3.5	5.0	6.1	7.1	
		Min - Max	kW	1.4 - 3.2	0.7 - 3.9	1.1 - 5.6	1.6 - 6.3	2.2 - 8.1	
	Total Input	Rated	kW	0.71	1.00	1.54	1.84	2.15	
	Design Load		kW	2.5	3.5	5.0	6.1	7.1	
	Annual Electricity Consumption* ²		kWh/a	165	207	290	386	452	
	SEER* ³			5.3	5.9	6.0	5.5	5.5	
		Energy Efficiency Class		A	A+	A+	A	A	
Heating (Average Season)	Capacity	Rated	kW	2.9	4.2	6.0	7.4	8.0	
		Min - Max	kW	1.3 - 4.2	1.1 - 5.0	1.5 - 7.2	1.6 - 8.0	2.0 - 10.2	
	Total Input	Rated	kW	0.80	1.07	1.61	2.04	2.28	
	Design Load		kW	2.2	2.6	4.3	4.6	5.8	
	Declared Capacity	at reference design temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)	
		at bivalent temperature	kW	2.0 (-7°C)	2.3 (-7°C)	3.8 (-7°C)	4.1 (-7°C)	5.2 (-7°C)	
		at operation limit temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)	
	Back Up Heating Capacity		kW	0.2	0.3	0.5	0.5	0.6	
	Annual Electricity Consumption* ²		kWh/a	807	884	1499	1525	2072	
	SCOP* ³			3.8	4.1	4.0	4.2	3.9	
	Energy Efficiency Class		A	A+	A+	A+	A		
Operating Current (max)			A	7.2	9.0	14.2	15.5	15.7	
Indoor Unit	Input	Rated	kW	0.04	0.05	0.07	0.07	0.10	
	Operating Current (max)		A	0.40	0.50	0.70	0.70	0.90	
	Dimensions <Panel>	H x W x D	mm	200 - 790 - 700	200 - 990 - 700	200 - 990 - 700	200 - 1190 - 700	200 - 1190 - 700	
	Weight <Panel>		kg	18	21	23	27	27	
	Air Volume [Lo-Mid-Hi]		m ³ /min	6 - 7 - 9	7 - 9 - 11	10 - 13 - 15	12 - 15 - 18	12 - 16 - 20	
	External Static Pressure		Pa	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50	
	Sound Level (SPL) [Lo-Mid-Hi]		dB(A)	22 - 25 - 29	23 - 28 - 33	29 - 33 - 36	29 - 33 - 37	29 - 34 - 39	
	Sound Level (PWL)		dB(A)	50	53	57	58	60	
	Dimensions	H x W x D	mm	550 - 800 - 285	550 - 800 - 285	714 - 800 - 285	880 - 840 - 330	880 - 840 - 330	
Outdoor Unit	Weight		kg	30	35	41	54	55	
	Air Volume	Cooling	m ³ /min	36.3	34.3	45.8	50.1	50.1	
		Heating	m ³ /min	34.6	32.7	43.7	50.1	50.1	
	Sound Level (SPL)	Cooling	dB(A)	45	48	48	49	49	
		Heating	dB(A)	46	48	49	51	51	
	Sound Level (PWL)	Cooling	dB(A)	59	59	64	65	66	
	Operating Current (max)		A	6.8	8.5	13.5	14.8	14.8	
	Breaker Size		A	10	10	20	20	20	
	Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88
Max. Length		Out-In	m	20	20	30	30	30	
Max. Height		Out-In	m	12	12	30	30	30	
Guaranteed Operating Range [Outdoor]		Cooling	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	
		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	

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

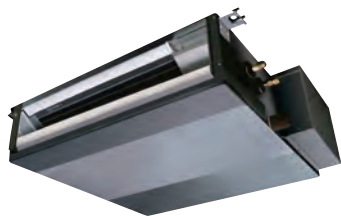
*² Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

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

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



SUZ-KA25/35VA6



SUZ-KA50/60/71VA6

Remote Controller



Enclosed in SEZ-M DAL



*optional
(for SEZ-M DA)



*optional
(for SEZ-M DA)



*optional
(for SEZ-M DA)



Type				Inverter Heat Pump					
Indoor Unit				SEZ-M25DA(L)	SEZ-M35DA(L)	SEZ-M50DA(L)	SEZ-M60DA(L)	SEZ-M71DA(L)	
Outdoor Unit				SUZ-KA25VA6	SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6	SUZ-KA71VA6	
Refrigerant				R410A* ¹					
Power Supply	Source			Outdoor power supply					
	Outdoor (V/Phase/Hz)			230 / Single / 50					
Cooling	Capacity	Rated	kW	2.5	3.5	5.1	5.6	7.1	
		Min - Max	kW	1.5 - 3.2	1.4 - 3.9	2.3 - 5.6	2.3 - 6.3	2.8 - 8.3	
	Total Input	Rated	kW	0.730	1.010	1.580	1.740	2.210	
	Design Load		kW	2.5	3.5	5.1	5.6	7.1	
	Annual Electricity Consumption* ²		kWh/a	162	210	300	356	458	
	SEER* ³			5.3	5.7	5.8	5.3	5.3	
			Energy Efficiency Class	A	A ⁺	A ⁺	A	A	
Heating (Average Season)	Capacity	Rated	kW	2.9	4.2	6.4	7.4	8.1	
		Min - Max	kW	1.3 - 4.5	1.7 - 5.0	1.7 - 7.2	2.5 - 8.0	2.6 - 10.4	
	Total Input	Rated	kW	0.803	1.130	1.800	2.200	2.268	
	Design Load		kW	2.2	2.8	4.6	5.5	6.0	
	Declared Capacity	at reference design temperature	kW	1.9 (-10°C)	2.5 (-10°C)	4.1 (-10°C)	4.5 (-10°C)	5.3 (-10°C)	
		at bivalent temperature	kW	1.9 (-7°C)	2.5 (-7°C)	4.1 (-7°C)	4.8 (-7°C)	5.3 (-7°C)	
		at operation limit temperature	kW	1.9 (-10°C)	2.5 (-10°C)	4.1 (-10°C)	4.5 (-10°C)	5.3 (-10°C)	
	Back Up Heating Capacity		kW	0.3	0.3	0.5	1.0	0.7	
	Annual Electricity Consumption* ²		kWh/a	808	979	1653	1878	2202	
	SCOP* ³			3.8	4.0	3.9	4.1	3.8	
		Energy Efficiency Class	A	A ⁺	A	A ⁺	A		
Operating Current (max)			A	7.4	8.7	12.7	14.7	17.0	
Indoor Unit	Input	Rated	kW	0.040	0.050	0.070	0.070	0.100	
	Operating Current (max)		A	0.4	0.5	0.7	0.7	0.9	
	Dimensions <Panel>	H x W x D	mm	200 - 790 - 700	200 - 990 - 700	200 - 990 - 700	200 - 1190 - 700	200 - 1190 - 700	
	Weight <Panel>		kg	18	21	23	27	27	
	Air Volume [Lo-Mid-Hi]		m ³ /min	6 - 7 - 9	7 - 9 - 11	10 - 13 - 15	12 - 15 - 18	12 - 16 - 20	
	External Static Pressure		Pa	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50	5 / 15 / 35 / 50	
	Sound Level (SPL) [Lo-Mid-Hi]		dB(A)	22 - 25 - 29	23 - 28 - 33	29 - 33 - 36	29 - 33 - 37	29 - 34 - 39	
	Sound Level (PWL)		dB(A)	50	53	57	58	60	
	Dimensions	H x W x D	mm	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330	880 - 840 - 330	880 - 840 - 330	
	Weight		kg	30	35	54	50	53	
Outdoor Unit	Air Volume	Cooling	m ³ /min	32.6	36.3	44.6	40.9	50.1	
		Heating	m ³ /min	34.7	34.8	44.6	49.2	48.2	
	Sound Level (SPL)	Cooling	dB(A)	47	49	52	55	55	
		Heating	dB(A)	48	50	52	55	55	
	Sound Level (PWL)	Cooling	dB(A)	58	62	65	65	69	
		Heating	dB(A)	58	62	65	65	69	
	Operating Current (max)		A	7.0	8.0	12.0	14.0	16.1	
	Breaker Size		A	10	10	20	20	20	
	Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88
		Max. Length	Out-In	m	20	20	30	30	30
Max. Height		Out-In	m	12	12	30	30	30	
Guaranteed Operating Range [Outdoor]		Cooling	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	
		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	

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

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

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












P

SERIES

















SELECTION

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



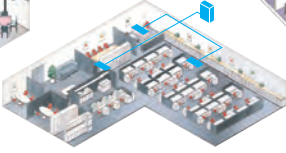
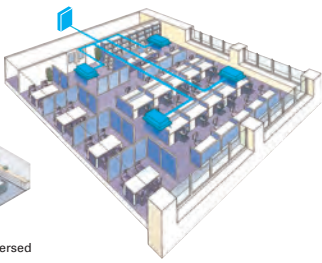
R32 INDOOR UNIT		R32 OUTDOOR UNIT	
	4-way ceiling-cassette PLA-ZM EA PLA-M EA		Wall-mounted PKA-M HA (L) PKA-M KA (L)
	Ceiling-concealed PEAD-M		
	Ceiling-suspended PCA-M		
		Power Inverter	Standard Inverter
			 SUZ-M35*
			 SUZ-M50*
			 SUZ-M60/71*
			 PUZ-M100/125/140

* Some indoor units cannot be used with this unit.

R410A INDOOR UNIT		R410A OUTDOOR UNIT	
	4-way ceiling-cassette PLA-ZM EA PLA-M EA		Wall-mounted PKA-M HA (L) PKA-M KA (L)
	Ceiling-concealed PEAD-M		Floor-standing PSA-KA
	Ceiling-suspended PCA-M		Ceiling-concealed PEA-WKA
	Professional Kitchen PCA-HAQ		
		Power Inverter	Standard Inverter
			
		PUHZ-ZRP35/50	SUZ-KA35*
			
		PUHZ-ZRP60/71	SUZ-KA50/60/71*
			
		PUHZ-ZRP100/125/140/ 200/250	PUHZ-P100/125/140
			
			PUHZ-P200/250

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

* Some indoor units cannot be used with this unit.

SELECT COMBINATION		
Choose the installation pattern for the indoor units. (In the case of a multi-system, distribution piping is necessary, so please select the necessary piping as well.)		
<div>Single System</div> <div></div>	<div>Simultaneous Multi-System</div> <div><div><div>Twin</div><div>Allows simultaneous operation of two indoor units on one floor.</div><div></div></div><div><div>Triple</div><div>Can cover a large-scale space or dispersed installation on the same floor.</div><div></div></div></div>	<div>Quadruple</div> <div>Realises the optimum temperature distribution even in a large space.</div> <div></div>

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

Outdoor Unit Capacity	Indoor 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.

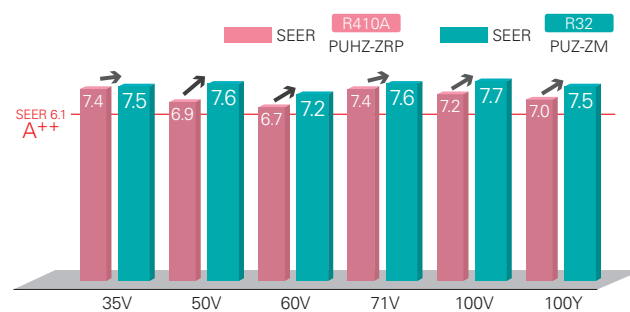
Power Inverter SERIES

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

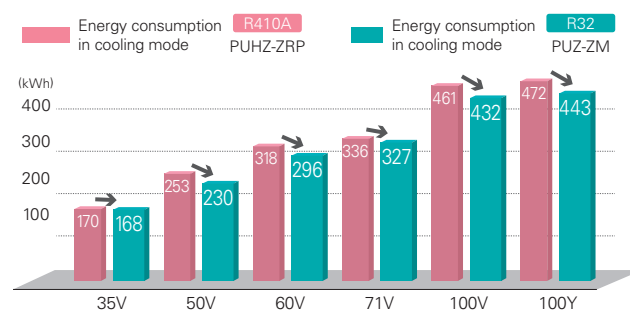


Industry-leading energy efficiency

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



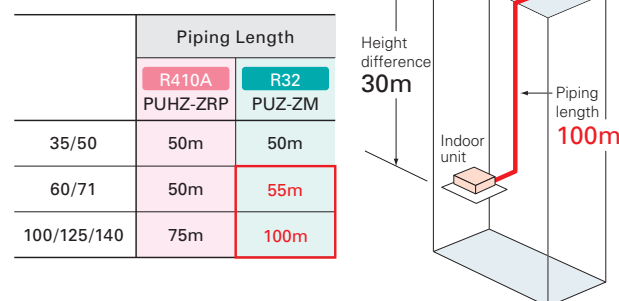
Introduction of new R32 refrigerant reduces energy consumption and realises energy savings.



*Specifications reported are figures when PLA-ZM**EA is connected.

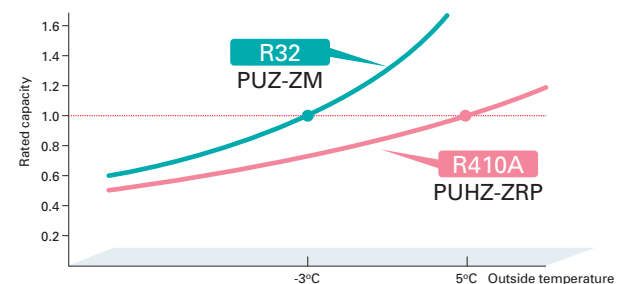
Longer piping (60/71/100/125/140)

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



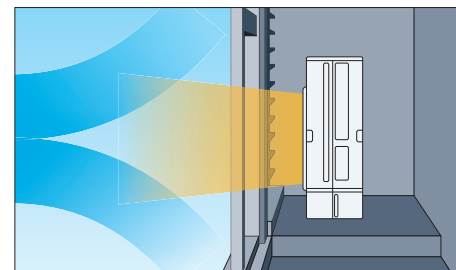
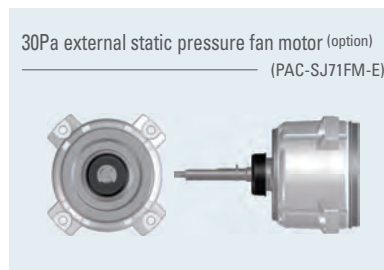
Rated heating capacity maintained down to -3°C

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.

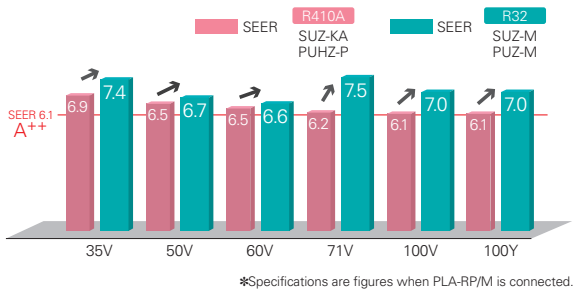
Standard Inverter SERIES

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



Improved energy efficiency

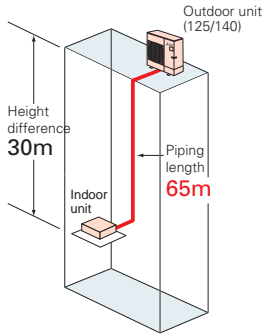
Introduction of new R32 refrigerant realises improved cooling efficiency. Rating of more than 6.6 achieved for all capacity range.



Longer piping (100/125/140)

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

	Max. Piping Length	
	R410A SUZ-KA PUHZ-P	R32 SUZ-M PUZ-M
25/35	20m	20m
50/60/71	30m	30m
100	50m	55m
125/140	50m	65m



Expansion of connectable indoor unit

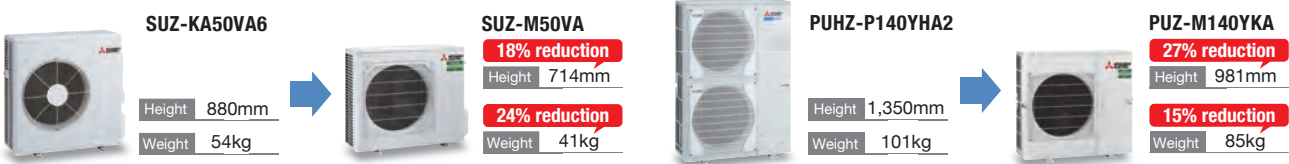
MLZ Series are newly connectable with Standard Inverter Series. The diverse selection enables the best solution for both customer and location.

		PLA Series	PEAD Series	PKA Series	PCA-KA Series	SLZ Series	SEZ Series	MLZ Series
R32	SUZ-M	✓	✓		✓	✓	✓	✓
	PUZ-M	✓	✓	✓	✓			
R410A	SUZ-KA	✓	✓		✓	✓	✓	
	PUHZ-P	✓	✓	✓	✓			

Indoor Unit Combination	Outdoor Unit Capacity											
	Single						Twin			Triple		
	25	35	50	60	71	100	125	140	71	100	125	140
PLA-M**EA		35x1	50x1	60x1	71x1	100x1	125x1	140x1		50x2	60x2	71x2
PEAD-M**JA(L)		35x1	50x1	60x1	71x1	100x1	125x1	140x1		50x2	60x2	71x2
PKA-M**HA(L)/KA(L)						100x1				50x2	60x2	71x2
PCA-M**KA		35x1	50x1	60x1	71x1	100x1	125x1	140x1		50x2	60x2	71x2
SLZ-M**FA	25x1	35x1	50x1	60x1								
SEZ-M**DA(L)	25x1	35x1	50x1	60x1	71x1							
MLZ-KP**VF	25x1	35x1	50x1									

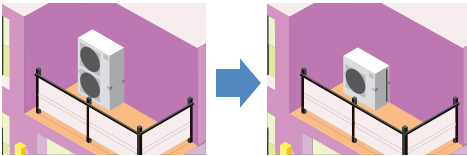
Light weight and compact size

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

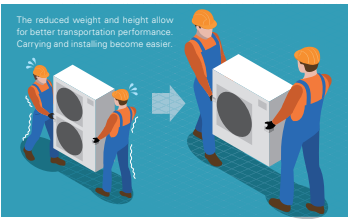


Unobstructive, compact, and easy to hide from view

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



Easy transportation and installation



PLA SERIES

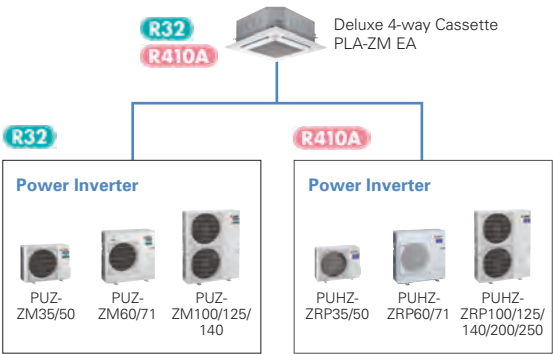
A complete line-up including deluxe units that offer added energy savings. The incorporation of wide air-outlet and the “3D i-see Sensor” enhances airflow distribution control, achieving an enhanced level of comfort throughout the room. The synergy of higher energy efficiency and more comfortable room environment results in the utmost user satisfaction.



Deluxe 4-way Cassette Line-up

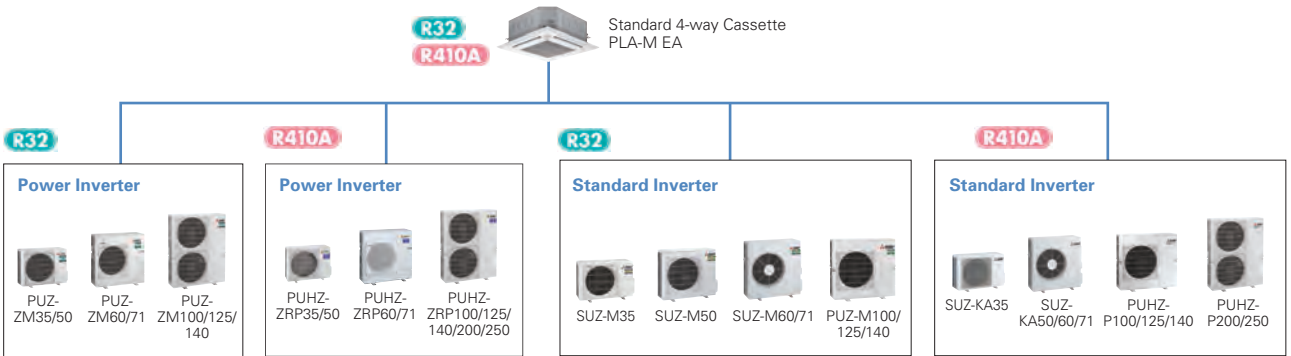
For users seeking even further energy savings, Mitsubishi Electric now offers deluxe units (PLA-ZM) to complete the line-up of models in this series, from 35-140. Compared to the standard models (PLA-RP), deluxe models provide additional energy savings, contributing to a significant reduction in electricity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

Indoor/Outdoor Unit Combinations



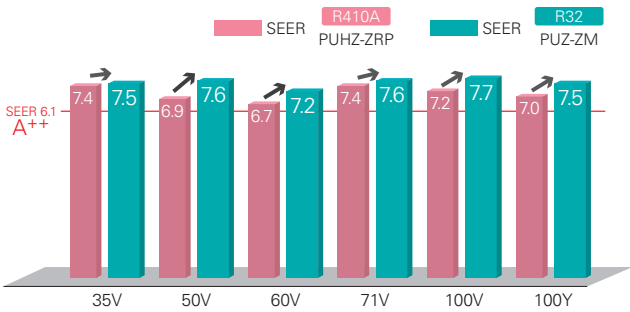
Line-up

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

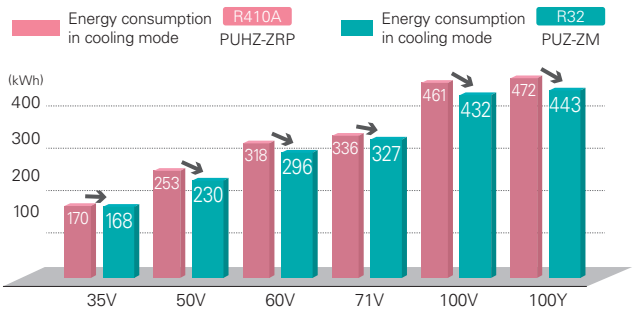


Industry-leading energy efficiency

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.

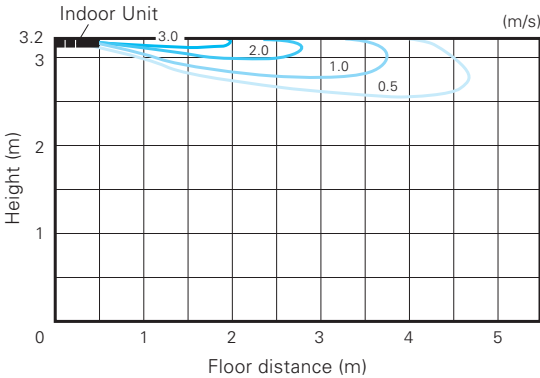


*Specifications reported are figures when PLA-ZM**EA is connected.

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.



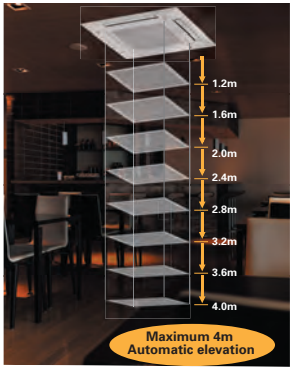
Grille Elevation Remote Controller
(comes with the automatic elevation panel)



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.

■ Previous model (B Series)



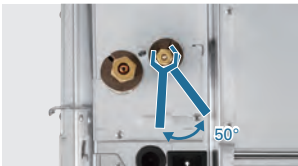
■ New model (E Series)



Increased space for plumbing work

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

■ Previous model (B Series)



■ New model (E Series)



Temporary hanging hook

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



No need to remove screws

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

■ Corner panel



■ Control box cover



Lightweight decorative panel

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



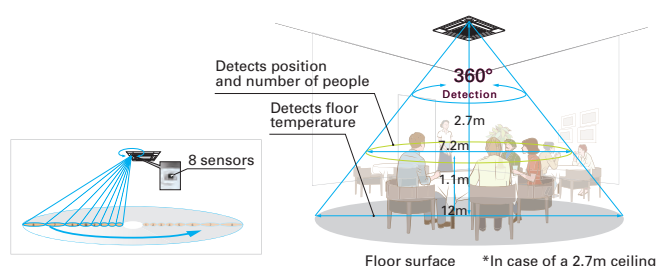
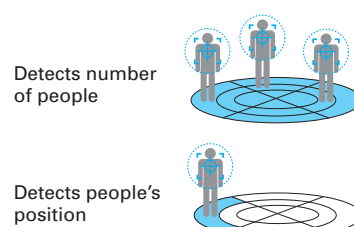
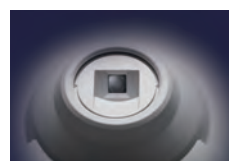
3D i-see Sensor for S & P SERIES

Detects number of people

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

Detects people's position

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



Detects number of people

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.

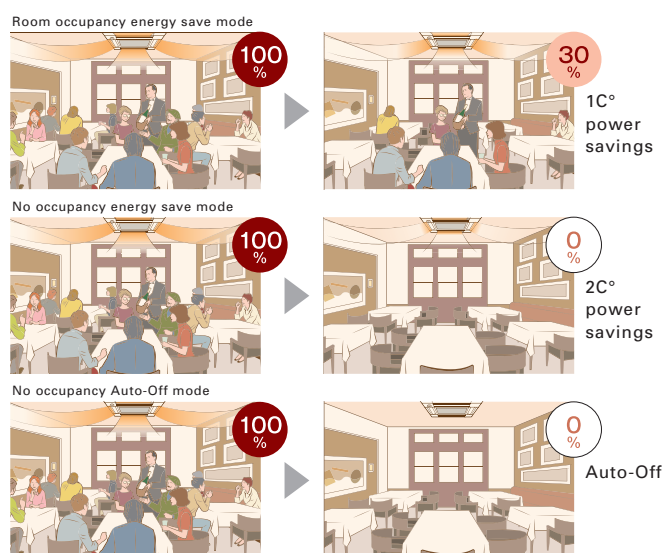
No occupancy energy-saving mode

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.

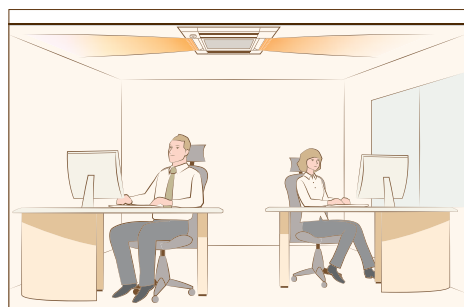


*PAR-40MAA is required for each setting

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-40MAA or PAR-SL100A-E is required for each setting.

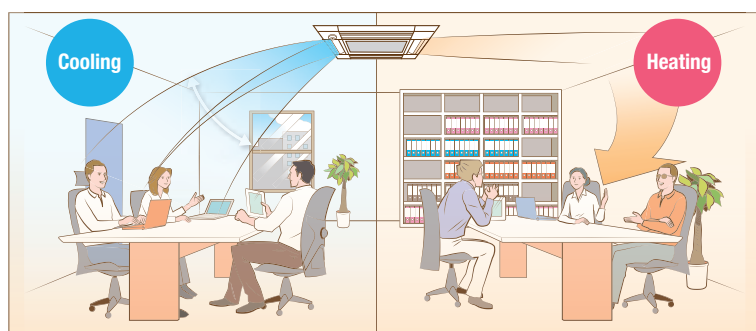
Seasonal airflow*

<When cooling>

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

<When heating>

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



*PAR-40MAA is required for each setting.

SERIES SELECTION

Power Inverter Series

Indoor Unit

R32
R410A



Panel PLA-ZM35/50/60/71/100/125/140EA

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation
PLP-6EA				
PLP-6EAL	✓			
PLP-6EAE		✓		
PLP-6EAE	✓	✓		
PLP-6EAJ	✓			✓
PLP-6EAJE	✓	✓		✓
PLP-6EALM	✓		✓	
PLP-6EALME	✓	✓	✓	

Outdoor Unit

R32

For Single



PUZ-ZM35/50



PUZ-ZM60/71



PUZ-ZM100/125/140

R32

For Multi
(Twin/Triple)



PUZ-ZM71



PUZ-ZM100/125/140

Remote Controller



Optional



Optional



Optional



*

* Enclosed in PLP-6EALM/PLP-6EALME

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

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

SERIES SELECTION

Standard Inverter Series

Indoor Unit

R32
R410A



Panel PLA-M35/50/60/71/100/125/140EA

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation
PLP-6EA				
PLP-6EAL	✓			
PLP-6EAE		✓		
PLP-6EAE	✓	✓		
PLP-6EAJ	✓			✓
PLP-6EAJE	✓	✓		✓
PLP-6EALM	✓		✓	
PLP-6EALME	✓	✓	✓	

Outdoor Unit

R32

For Single



SUZ-M35



SUZ-M50



SUZ-M60/71



PUZ-M100/125/140

R32

For Multi
(Twin/Triple)



PUZ-M100/125/140

Remote Controller



Optional



Optional



Optional



*

* Enclosed in PLP-6EALM/PLP-6EALME

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

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

PLA-ZM SERIES
POWER INVERTER



Type			Inverter Heat Pump										
Indoor Unit			PLA-ZM35EA	PLA-ZM50EA	PLA-ZM60EA	PLA-ZM71EA	PLA-ZM100EA		PLA-ZM125EA		PLA-ZM140EA		
Outdoor Unit			PUZ-ZM35VKA	PUZ-ZM50VKA	PUZ-ZM60VHA	PUZ-ZM71VHA	PUZ-ZM100VKA	PUZ-ZM100YKA	PUZ-ZM125VKA	PUZ-ZM125YKA	PUZ-ZM140VKA	PUZ-ZM140YKA	
Refrigerant			R32*1										
Power Supply			Outdoor power supply VKA・VHA: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	4.9 ~ 11.4	5.5 ~ 14.0	5.5 ~ 14.0	6.2 ~ 15.0	6.2 ~ 15.0
	Total Input	Rated	kW	0.705	1.106	1.452	1.651	2.065	2.065	3.378	3.378	3.722	3.722
		EER		5.10	4.52	4.20	4.30	4.60	4.60	3.70	3.70	3.60	3.60
	EEL Rank			—	—	—	—	—	—	—	—	—	—
	Design Load	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	—	—	—	—
		Annual Electricity Consumption*2	kWh/a	168	230	296	327	432	443	—	—	—	—
	SEER	Rated		7.5	7.6	7.2	7.6	7.7	7.5	—	—	—	—
		Energy Efficiency Class			A++	A++	A++	A++	A++	A++	—	—	—
	Heating (Average Season)	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0
Min - Max			kW	1.6 ~ 5.2	2.5 ~ 7.3	2.8 ~ 8.2	3.5 ~ 10.2	4.5 ~ 14.0	4.5 ~ 14.0	5.0 ~ 16.0	5.0 ~ 16.0	5.7 ~ 18.0	5.7 ~ 18.0
Total Input		Rated	kW	0.820	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		Rated	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 Capacity		Rated	kW	0	0	0	0	0	0	—	—	—	—
	Annual Electricity Consumption*2	kWh/a	745	1083	1339	1370	2277	2277	—	—	—	—	
		SCOP		4.7	4.9	4.6	4.8	4.8	4.8	—	—	—	—
	Energy Efficiency Class			A++	A++	A++	A++	A++	A++	—	—	—	—
Operating Current (max)			A	13.2	13.2	19.2	19.3	27.0	8.5	27.0	10.0	28.7	13.7
Indoor Unit	Input	Rated	kW	0.03	0.03	0.03	0.05	0.07	0.07	0.08	0.08	0.10	0.10
		Operating Current (max)	A	0.21	0.22	0.22	0.34	0.47	0.47	0.52	0.52	0.66	0.66
Dimensions <Panel> H x W x D			mm	258 - 840 - 840 <40 - 950 - 950>				298 - 840 - 840 <40 - 950 - 950>		298 - 840 - 840 <40 - 950 - 950>		298 - 840 - 840 <40 - 950 - 950>	
Weight <Panel>			kg	21 <5>				24 <5>		26 <5>		26 <5>	
Air Volume [Lo-Mi2-Mi1-Hi]			m³/min	11-13-15-16	12-14-16-18	12-14-16-18	17-19-21-23	19-22-25-28	19-22-25-28	21-24-26-29	21-24-26-29	24-26-29-32	24-26-29-32
Sound Level (SPL) [Lo-Mi2-Mi1-Hi]			dB(A)	26-28-29-31	27-29-31-32	27-29-31-32	28-30-33-36	31-34-37-40	31-34-37-40	33-36-39-41	33-36-39-41	36-39-42-44	36-39-42-44
Sound Level (PWL)			dB(A)	51	54	54	57	61	61	62	62	65	65
Outdoor Unit	Dimensions H x W x D		mm	630 - 809 - 300				943 - 950 - 330 (+25)		1,338 - 1,050 - 330 (+40)		1,338 - 1,050 - 330 (+40)	
	Weight	kg	46	46	70	70	116	123	116	125	118	131	
		Air Volume	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
		Cooling	m³/min	45	45	55	55	110	110	120	120	120	120
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	49	49	50	50	50	50
		Heating	dB(A)	46	46	49	49	51	51	52	52	52	52
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	69	69	70	70	70	70
		Heating	dB(A)	65	65	67	67	69	69	70	70	70	70
	Operating Current (max)	A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0	
Breaker Size		A	16	16	25	25	32	16	32	16	40	16	
Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 12.7		9.52 / 15.88		9.52 / 15.88		9.52 / 15.88		9.52 / 15.88	
	Max. Length	Out-In	m	50	50	55	55	100	100	100	100	100	
	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	
Guaranteed Operating Range [Outdoor]			Cooling*3	°C	−15 ~ +46	−15 ~ +46	−15 ~ +46	−15 ~ +46	−15 ~ +46	−15 ~ +46	−15 ~ +46	−15 ~ +46	
			Heating	°C	−11 ~ +21	−11 ~ +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 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.

PLA-M SERIES
STANDARD INVERTER



Type			Inverter Heat Pump													
Indoor Unit			PLA-M35EA	PLA-M50EA	PLA-M60EA	PLA-M71EA	PLA-M100EA		PLA-M125EA		PLA-M140EA					
Outdoor Unit			SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA	PUZ-M100VKA	PUZ-M100YKA	PUZ-M125VKA	PUZ-M125YKA	PUZ-M140VKA	PUZ-M140YKA				
Refrigerant			R32*1													
Power Supply			Outdoor power supply VA・VKA:230 / Single / 50, YKA:400 / Three / 50													
Cooling	Capacity		Rated	kW	3.6	5.5	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4		
			Min - Max	kW	0.8 - 3.9	1.2 - 5.6	1.6 - 6.3	2.2 - 8.1	4.0 - 10.6	4.0 - 10.6	5.8 - 13.0	5.8 - 13.0	5.8 - 14.1	5.8 - 14.1		
	Total Input		Rated	kW	0.90	1.61	1.84	1.91	2.71	2.71	4.01	4.01	4.96	4.96		
	EER				4.00	3.40	3.30	3.70	3.50	3.50	3.01	3.01	2.70	2.70		
	EEL Rank				-	-	-	-	-	-	-	-	-	-		
	Design Load		kW	3.6	5.5	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4			
	Annual Electricity Consumption*2		kWh/a	170	285	320	331	474	474	-	-	-	-			
	SEER			7.4	6.7	6.6	7.5	7.0	7.0	-	-	-	-			
	Energy Efficiency Class			A++	A++	A++	A++	A++	A++	-	-	-	-			
Heating (Average Season)	Capacity		Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	13.5	13.5	15.0	15.0		
			Min - Max	kW	1.0 - 5.0	1.5 - 7.2	1.6 - 8.0	2.0 - 10.2	2.8 - 12.5	2.8 - 12.5	4.1 - 15.0	4.1 - 15.0	4.2 - 15.8	4.2 - 15.8		
	Total Input		Rated	kW	0.97	1.73	1.84	2.21	3.01	3.01	3.63	3.63	4.39	4.39		
	COP			4.20	3.46	3.80	3.61	3.71	3.71	3.71	3.71	3.41	3.41			
	EEL Rank			-	-	-	-	-	-	-	-	-	-			
	Design Load		kW	2.6	4.3	4.6	5.8	8.0	8.0	8.5	8.5	9.4	9.4			
	Declared Capacity		at reference design temperature	kW	2.3 (-10℃)	3.8 (-10℃)	4.1 (-10℃)	5.2 (-10℃)	6.0 (-10℃)	6.0 (-10℃)	8.5 (-10℃)	8.5 (-10℃)	9.4 (-10℃)	9.4 (-10℃)		
			at bivalent temperature	kW	2.3 (-7℃)	3.8 (-7℃)	4.1 (-7℃)	5.2 (-7℃)	6.0 (-7℃)	6.0 (-7℃)	8.5 (-10℃)	8.5 (-10℃)	9.4 (-10℃)	9.4 (-10℃)		
			at operation limit temperature	kW	2.3 (-10℃)	3.8 (-10℃)	4.1 (-10℃)	5.2 (-10℃)	4.5 (-15℃)	4.5 (-15℃)	6.0 (-15℃)	6.0 (-15℃)	7.0 (-15℃)	7.0 (-15℃)		
	Back Up Heating Capacity		kW	0.3	0.5	0.5	0.6	2.0	2.0	-	-	-	-			
Annual Electricity Consumption*2		kWh/a	774	1456	1458	1796	2428	2428	-	-	-	-				
SCOP			A7	A7	A+	A+	A+	A+	-	-	-	-				
Energy Efficiency Class			A++	A++	A++	A++	A++	A++	-	-	-	-				
Operating Current (max)			A	8.7	13.7	15.0	15.1	20.5	12.0	27.2	12.2	30.7	12.2			
Indoor Unit	Input		Rated	kW	0.03	0.03	0.03	0.04	0.07	0.07	0.10	0.10	0.10	0.10		
	Operating Current (max)		A	0.20	0.22	0.24	0.27	0.46	0.46	0.66	0.66	0.66	0.66			
	Dimensions <Panel>		H × W × D	mm	258 - 840 - 840				<40 - 950 - 950>				298 - 840 - 840		<40 - 950 - 950>	
	Weight <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-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	36-39-42-44			
	Sound Level (PWL)		dB(A)	51	54	54	56	61	61	65	65	65	65			
	Outdoor Unit		Dimensions	H × W × D	mm	550-800-285		714-800-285		880-840-330		981-1050-330 (+40)				
	Weight		kg	35	41	54	55	76	78	84	85	84	85			
	Air Volume		Cooling	m³/min	34.3	45.8	50.1	50.1	79.0	79.0	86.0	86.0	86.0	86.0		
		Heating	m³/min	32.7	43.7	50.1	50.1	79.0	79.0	92.0	92.0	92.0	92.0			
Sound Level (SPL)		Cooling	dB(A)	48	48	49	49	51	51	54	54	55	55			
		Heating	dB(A)	48	49	51	51	54	54	56	56	57	57			
Sound Level (PWL)		Cooling	dB(A)	59	64	65	66	70	70	72	72	73	73			
Operating Current (max)		A	8.5	13.5	14.8	14.8	20.0	11.5	26.5	11.5	30.0	11.5				
Breaker Size		A	10	20	20	20	32	16	32	16	40	16				
Ext. Piping	Diameter		Liquid / Gas	mm	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88		
	Max. Length		Out-In	m	20	30	30	30	55	55	65	65	65	65		
	Max. Height		Out-In	m	12	30	30	30	30	30	30	30	30	30		
	Guaranteed Operating Range (Outdoor)		Cooling*3	℃	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46		
			Heating	℃	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21			

PLA-M SERIES
POWER INVERTER



Type			Inverter Heat Pump											
Indoor Unit			PLA-M35EA	PLA-M50EA	PLA-M60EA	PLA-M71EA	PLA-M100EA		PLA-M125EA		PLA-M140EA			
Outdoor Unit			PUZ-ZM35VKA	PUZ-ZM50VKA	PUZ-ZM60VHA	PUZ-ZM71VHA	PUZ-ZM100VKA	PUZ-ZM100YKA	PUZ-ZM125VKA	PUZ-ZM125YKA	PUZ-ZM140VKA	PUZ-ZM140YKA		
Refrigerant			R32*1											
Power Supply	Source		Outdoor power supply											
	Outdoor (V/Phase/Hz)		VKA・VHA: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	4.9 ~ 11.4	5.5 ~ 14.0	5.5 ~ 14.0	6.2 ~ 15.0	6.2 ~ 15.0	
	Total Input	Rated	kW	0.751	1.175	1.523	1.716	2.084	2.084	3.399	3.399	3.746	3.746	
	EER			4.79	4.25	4.00	4.14	4.56	4.56	3.68	3.68	3.58	3.58	
	EEL Rank			-	-	-	-	-	-	-	-	-	-	
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	-	
	Annual Electricity Consumption*2		kWh/a	172	234	299	332	435	446	-	-	-	-	
	SEER			7.3	7.4	7.1	7.4	7.6	7.4	-	-	-	-	
	Energy Efficiency Class			A++	A++	A++	A++	A++	A++	-	-	-	-	
	Heating (Average Season)	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
		Min - Max	kW	1.6 ~ 5.2	2.5 ~ 7.3	2.8 ~ 8.2	3.5 ~ 10.2	4.5 ~ 14.0	4.5 ~ 14.0	5.0 ~ 16.0	5.0 ~ 16.0	5.7 ~ 18.0	5.7 ~ 18.0	
Total Input		Rated	kW	0.890	1.581	1.863	2.014	2.685	2.685	3.773	3.773	4.365	4.365	
COP				4.61	3.79	3.76	3.97	4.17	4.17	3.71	3.71	3.67	3.67	
EEL Rank			-	-	-	-	-	-	-	-	-	-		
Design Load			kW	2.5	3.8	4.4	4.7	7.8	7.8	-	-	-	-	
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 Capacity			kW	0	0	0	0	0	0	-	-	-	-	
Annual Electricity Consumption*2		kWh/a	797	1184	1420	1432	2521	2521	-	-	-	-		
Energy Efficiency Class			A+	A+	A+	A+	A+	A+	-	-	-	-		
Operating Current (max)		A	13.2	13.2	19.2	19.3	27.0	8.5	27.2	10.2	28.7	13.7		
	Input	Rated	kW	0.03	0.03	0.03	0.04	0.07	0.07	0.10	0.10	0.10		
Indoor Unit	Operating Current (max)		A	0.20	0.22	0.24	0.27	0.46	0.46	0.66	0.66	0.66		
	Dimensions <Panel>	H × W × D	mm	258 - 840 - 840 <40 - 950 - 950>		21 <5>		24 <5>		298 - 840 - 840 <40 - 950 - 950>		26 <5>		
Weight <Panel>			kg	19 <5>		19 <5>		21 <5>		24 <5>		26 <5>		
Air Volume [Lo-Mi2-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	36-39-42-44	
Sound Level (PWL)			dB(A)	51	54	54	56	61	61	65	65	65	65	
Outdoor Unit	Dimensions	H × W × D	mm	630 - 809 - 300		943 - 950 - 330 (+25)		116		1,338 - 1,050 - 330 (+40)		118		
	Weight		kg	46	46	70	70	116	123	116	125	118	131	
	Air Volume	Cooling	m³/min	45	45	55	55	110	110	120	120	120	120	
		Heating	m³/min	45	45	55	55	110	110	120	120	120	120	
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	49	49	50	50	50	50	
		Heating	dB(A)	46	46	49	49	51	51	52	52	52	52	
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	69	69	70	70	70	70	
		Operating Current (max)		A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size			A	16	16	25	25	32	16	32	16	40	16
	Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 12.7		9.52 / 15.88		9.52 / 15.88		9.52 / 15.88		9.52 / 15.88	
Max. Length		Out-In	m	50	50	55	55	100	100	100	100	100	100	
Max. Height		Out-In	m	30	30	30	30	30	30	30	30	30	30	
Guaranteed Operating Range [Outdoor]			Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	
			Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	

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

SERIES SELECTION

Power Inverter Series



Indoor Unit

R32
R410A



Panel PLA-ZM35/50/60/71/100/125/140EA

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation
PLP-6EA				
PLP-6EAL	✓			
PLP-6EAE		✓		
PLP-6EAE	✓	✓		
PLP-6EAJ	✓			✓
PLP-6EAJE	✓	✓		✓
PLP-6EALM	✓		✓	
PLP-6EALME	✓	✓	✓	

Outdoor Unit

R410A

For Single



PUHZ-ZRP35/50



PUHZ-ZRP60/71



PUHZ-ZRP100/125/140

R410A

For Multi
(Twin/Triple/Quadruple)



PUHZ-ZRP71



PUHZ-ZRP100/125/140/200/250

Remote Controller



Optional



Optional



Optional



*

* Enclosed in PLP-6EALM/PLP-6EALME

Standard Inverter Series



Indoor Unit

R410A



Panel PLA-M35/50/60/71/100/125/140EA

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation
PLP-6EA				
PLP-6EAL	✓			
PLP-6EAE		✓		
PLP-6EAE	✓	✓		
PLP-6EAJ	✓			✓
PLP-6EAJE	✓	✓		✓
PLP-6EALM	✓		✓	
PLP-6EALME	✓	✓	✓	

Outdoor Unit

R410A

For Single



SUZ-KA35



SUZ-KA50/60/71



PUHZ-P100/125/140

R410A

For Multi
(Twin/Triple/Quadruple)



PUHZ-P100/125/140



PUHZ-P200/250

Remote Controller



Optional



Optional



Optional



*

* Enclosed in PLP-6EALM/PLP-6EALME

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

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUHZ-ZRP)		35x1	50x1	60x1	71x1	100x1	125x1	140x1	–	–	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	–	–	–	–	–	–	–	–	–	MSDD-50TR-E			MSDD-50WR-E		MSDT-111R-E			MSDF-1111R-E		
Standard Inverter (SUZ & PUHZ-P)		35x1	50x1	60x1	71x1	100x1	125x1	140x1	–	–	–	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	–	–	–	–	–	–	–	–	–	MSDD-50TR-E			MSDD-50WR-E		MSDT-111R-E			MSDF-1111R-E		

PLA-ZM SERIES

POWER INVERTER



Type			Inverter Heat Pump											
Indoor Unit			PLA-ZM35EA	PLA-ZM50EA	PLA-ZM60EA	PLA-ZM71EA	PLA-ZM100EA		PLA-ZM125EA		PLA-ZM140EA			
Outdoor Unit			PUHZ-ZRP35VKA2	PUHZ-ZRP50VKA2	PUHZ-ZRP60VHA2	PUHZ-ZRP71VHA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA3	PUHZ-ZRP125VKA3	PUHZ-ZRP125YKA3	PUHZ-ZRP140VKA3	PUHZ-ZRP140YKA3		
Refrigerant			R410A*1											
Power Supply			Outdoor power supply VKA・VHA:230 / Single / 50, YKA:400 / Three / 50											
Cooling	Capacity		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		kW	0.78	1.33	1.66	1.79	2.20	2.20	3.84	3.84	4.36	4.36	
	EER			—	—	—	—	—	—	3.25	3.25	3.07	3.07	
	EEL Rank			—	—	—	—	—	—	—	—	—	—	
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	—	—	—	—	
	Annual Electricity Consumption*2		kWh/a	170	253	318	336	461	472	—	—	—	—	
	SEER			7.4	6.9	6.7	7.4	7.2	7.0	—	—	—	—	
	Energy Efficiency Class			A++	A++	A++	A++	A++	A++	—	—	—	—	
	Heating (Average Season)	Capacity		kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
Min - Max		kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0		
Total Input		kW	0.85	1.55	1.89	1.90	2.60	2.60	3.67	3.67	4.84	4.84		
COP			—	—	—	—	—	—	3.81	3.81	3.30	3.30		
EEL Rank			—	—	—	—	—	—	—	—	—	—		
Design Load		kW	2.5	3.8	4.4	4.7	7.8	7.8	—	—	—	—		
Declared Capacity		at reference design temperature at bivalent temperature at operation limit temperature	kW kW kW	2.5 (-10°C) 2.5 (-10°C) 2.1 (-11°C)	3.8 (-10°C) 3.8 (-10°C) 3.7 (-11°C)	4.4 (-10°C) 4.4 (-10°C) 2.8 (-20°C)	4.7 (-10°C) 4.7 (-10°C) 3.5 (-20°C)	7.8 (-10°C) 7.8 (-10°C) 5.8 (-20°C)	7.8 (-10°C) 7.8 (-10°C) 5.8 (-20°C)	— — —	— — —	— — —		
Back Up Heating Capacity		kW	0	0	0	0	0	0	—	—	—	—		
Annual Electricity Consumption*2		kWh/a	714	1109	1337	1342	2229	2229	—	—	—	—		
SCOP			4.9	4.8	4.6	4.9	4.9	4.9	—	—	—	—		
Energy Efficiency Class				A++	A++	A++	A++	A++	—	—	—	—		
Operating Current (max)			A	13.2	13.2	19.2	19.3	27.0	8.5	27.0	10.0	28.7	13.7	
Indoor Unit	Input		kW	0.03	0.03	0.03	0.05	0.07	0.07	0.08	0.08	0.10	0.10	
	Operating Current (max)		A	0.21	0.22	0.22	0.34	0.47	0.47	0.52	0.52	0.66	0.66	
Dimensions <Panel> H × W × D			mm	258 - 840 - 840 <40 - 950 - 950>			24 <5>		298 - 840 - 840 <40 - 950 - 950>		27 <5>		27 <5>	
Weight <Panel>			kg	21 <5>			26 <5>		26 <5>		27 <5>		27 <5>	
Air Volume [Lo-Mi2-Mi1-Hi]			m³/min	11-13-15-16	12-14-16-18	12-14-16-18	17-19-21-23	19-22-25-28	19-22-25-28	21-24-26-29	21-24-26-29	24-26-29-32	24-26-29-32	
Sound Level (SPL) [Lo-Mi2-Mi1-Hi]			dB(A)	26-28-29-31	27-29-31-32	27-29-31-32	28-30-33-36	31-34-37-40	31-34-37-40	33-36-39-41	33-36-39-41	36-39-42-44	36-39-42-44	
Sound Level (PWL)			dB(A)	51	54	54	57	61	61	62	62	65	65	
Outdoor Unit	Dimensions		H × W × D	mm	630 - 809 - 300			943 - 950 - 330 (+30)		1338 - 1050 - 330 (+40)		118		131
	Weight		kg	43	46	70	70	116	123	116	125	118	131	
	Air Volume		Cooling Heating	m³/min	45 45	45 45	55 55	55 55	110 110	110 120	120 120	120 120	120 120	
	Sound Level (SPL)		Cooling Heating	dB(A)	44 46	44 46	47 48	47 48	49 51	49 52	50 52	50 52	50 52	
	Sound Level (PWL)		Cooling	dB(A)	65	65	67	67	69	69	70	70	70	
	Operating Current (max)		A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0	
	Breaker Size		A	16	16	25	25	32	16	32	16	40	16	
	Ext. 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 / 15.88	9.52 / 15.88
		Max. Length		Out-In	m	50	50	50	50	75	75	75	75	75
		Max. Height		Out-In	m	30	30	30	30	30	30	30	30	30
Guaranteed Operating Range [Outdoor]			Cooling*3 Heating	°C °C	-15 ~ +46 -11 ~ +21	-15 ~ +46 -11 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	

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

PLA-M SERIES

STANDARD INVERTER



Type			Inverter Heat Pump													
Indoor Unit			PLA-M35EA	PLA-M50EA	PLA-M60EA	PLA-M71EA	PLA-M100EA		PLA-M125EA		PLA-M140EA					
Outdoor Unit			SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6	SUZ-KA71VA6	PUHZ-P100VKA	PUHZ-P100YKA	PUHZ-P125VKA	PUHZ-P125YKA	PUHZ-P140VKA	PUHZ-P140YKA				
Refrigerant			R410A*1													
Power Supply			Outdoor power supply VA · VKA:230 / Single / 50, YKA:400 / Three / 50													
Cooling	Capacity	Rated	kW	3.6	5.5	5.7	7.1	9.4	9.4	12.1	12.1	13.6	13.6			
		Min - Max	kW	1.4 - 3.9	2.3 - 5.6	2.3 - 6.3	2.8 - 8.1	3.7 - 10.6	3.7 - 10.6	5.6 - 13.0	5.6 - 13.0	5.8 - 14.1	5.8 - 14.1			
	Total Input	Rated	kW	1.02	1.61	1.76	2.10	3.18	3.18	4.10	4.10	5.41	5.41			
	EER		—	—	—	—	2.95	2.95	2.95	2.95	2.51	2.51				
	EEL Rank			—	—	—	—	—	—	—	—	—				
	Design Load	kW	3.6	5.5	5.7	7.1	9.4	9.4	—	—	—	—				
	Annual Electricity Consumption*2	kWh/a	181	295	307	400	538	538	—	—	—	—				
	SEER		6.9	6.5	6.5	6.2	6.1	6.1	—	—	—	—				
	Energy Efficiency Class			A++	A++	A++	A++	A++	A++	—	—	—				
	Heating (Average Season)	Capacity	Rated	kW	4.1	5.8	6.9	8.0	11.2	11.2	13.5	13.5	15.0	15.0		
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			
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+	—	—	—					
Operating Current (max)			A	8.4	12.2	14.2	16.4	20.5	12.0	27.2	12.2	30.7	12.2			
Indoor Unit	Input	Rated	kW	0.03	0.03	0.03	0.04	0.07	0.07	0.10	0.10	0.10	0.10			
		Operating Current (max)	A	0.20	0.22	0.24	0.27	0.46	0.46	0.66	0.66	0.66	0.66			
Dimensions <Panel>			H × W × D	mm	258 - 840 - 840		<40 - 950 - 950>	21 <5>		24 <5>	298 - 840 - 840	<40 - 950 - 950>	21 <5>	24 <5>	26 <5>	26 <5>
Weight <Panel>			kg	19 <5>		21 <5>	21 <5>	24 <5>	24 <5>	26 <5>	26 <5>	26 <5>	26 <5>	26 <5>	26 <5>	26 <5>
Air Volume [Lo-Mi2-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	26-29-32	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	31-33-37-40	31-33-37-40	33-37-41-44	33-37-41-44	36-39-42-44	36-39-42-44	36-39-42-44	36-39-42-44
Sound Level (PWL)			dB(A)	51		54	54	56	61	61	65	65	65	65	65	65
Outdoor Unit	Dimensions	H × W × D	mm	550 - 800 - 285		54	880 - 840 - 330	53		76	78	84	85	84	85	85
		Weight	kg	35		54	50	53	76	78	84	85	84	85	85	85
	Air Volume	Cooling	m³/min	36.3		44.6	40.9	50.1	79	79	86	86	86	86	86	86
		Heating	m³/min	34.8		44.6	49.2	48.2	79	79	92	92	92	92	92	92
	Sound Level (SPL)	Cooling	dB(A)	49		52	55	55	51	51	54	54	56	56	56	56
		Heating	dB(A)	50		52	55	55	54	54	56	56	57	57	57	57
	Sound Level (PWL)	Cooling	dB(A)	62		65	65	69	70	70	72	72	75	75	75	75
		Heating	dB(A)	62		65	65	69	70	70	72	72	75	75	75	75
	Operating Current (max)	A	8.2	12.0	14.0	16.1	20	11.5	26.5	11.5	30.0	11.5	30.0	11.5	30.0	11.5
		Breaker Size	A	10	20	20	20	32	16	32	16	40	16	40	16	40
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	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	20		30	30	30	50	50	50	50	50	50	50	50
	Max. Height	Out-In	m	12		30	30	30	30	30	30	30	30	30	30	30
Guaranteed Operating Range [Outdoor]			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
			Heating	°C	-10 ~ +24		-10 ~ +24	-10 ~ +24	-10 ~ +24	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21

PLA-M SERIES
POWER INVERTER



Type			Inverter Heat Pump										
Indoor Unit			PLA-M35EA	PLA-M50EA	PLA-M60EA	PLA-M71EA	PLA-M100EA		PLA-M125EA		PLA-M140EA		
Outdoor Unit			PUHZ-ZRP35VKA2	PUHZ-ZRP50VKA2	PUHZ-ZRP60VHA2	PUHZ-ZRP71VHA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA3	PUHZ-ZRP125VKA3	PUHZ-ZRP125YKA3	PUHZ-ZRP140VKA3	PUHZ-ZRP140YKA3	
Refrigerant			R410A*1										
Power Supply	Source		Outdoor power supply										
	Outdoor (V/Phase/Hz)		VKA-VHA: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
	Total Input	Min - Max	kW	1.6 ~ 4.5	2.3 ~ 5.6	2.7 ~ 6.5	3.3 ~ 8.1	4.9 ~ 11.4	4.9 ~ 11.4	5.5 ~ 14.0	5.5 ~ 14.0	6.2 ~ 15.0	6.2 ~ 15.0
		Rated	kW	0.83	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 (Average Season)	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0
Total Input		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
		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 Capacity			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+	A+	A+	A++	A+	A+	—	—	—	—	
Operating Current (max)			A	13.2	13.2	19.2	19.3	27.0	8.5	27.2	10.2	28.7	13.7
Indoor Unit	Input	Rated	kW	0.03	0.03	0.03	0.04	0.07	0.07	0.10	0.10	0.10	0.10
	Operating Current (max)		A	0.20	0.22	0.24	0.27	0.46	0.46	0.66	0.66	0.66	0.66
	Dimensions <Panel>	H x W x D	mm	258 - 840 - 840 <40 - 950 - 950>									
	Weight <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-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	36-39-42-44
	Sound Level (PWL)		dB(A)	51	54	54	56	61	61	65	65	65	65
	Dimensions	H x W x D	mm	630 - 809 - 300 943 - 950 - 330 (+30)									
	Weight		kg	43	46	70	70	116	123	116	125	118	131
	Air Volume	Cooling	m³/min	45	45	55	55	110	110	120	120	120	120
Heating		m³/min	45	45	55	55	110	110	120	120	120	120	
Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	49	49	50	50	50	50	
	Heating	dB(A)	46	46	48	48	51	51	52	52	52	52	
Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	69	69	70	70	70	70	
Operating Current (max)		A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0	
Breaker Size		A	16	16	25	25	32	16	32	16	40	16	
Ext. 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 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	50	50	50	50	75	75	75	75	75	75
	Max. Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Guaranteed Operating Range [Outdoor]			Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
			Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21

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

PEAD SERIES

R32
R410A

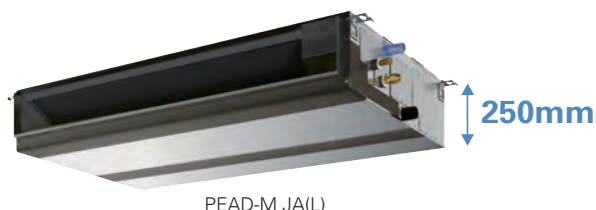
PEAD-M35/50/60/71/100/125/140JA(L)

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 possible.

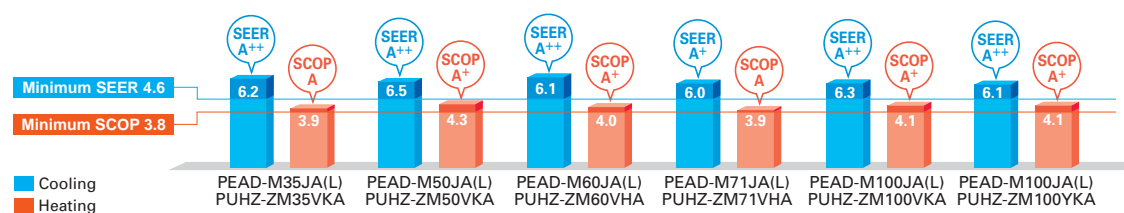


External Static Pressure

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

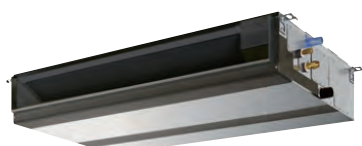
ErP Lot 10-compliant, Achieving High Energy Efficiency of SEER/SCOP Rank A+ and A++

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



Drain Pump Option Available with All Models

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



PEAD-M JA → Drain pump built-in



PEAD-M JAL → No drain pump

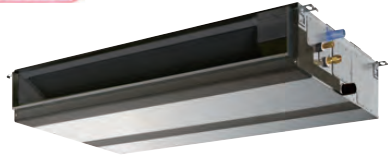
* Units with an "L" included at the end of the model name are not equipped with a drain pump.

SERIES SELECTION

Power Inverter Series

Indoor Unit

R32
R410A



PEAD-M35/50/60/71/100/125/140

Outdoor Unit

R32

For Single



PUZ-ZM35/50



PUZ-ZM60/71



PUZ-ZM100/125/140

R32

For Multi
(Twin/Triple)



PUZ-ZM71



PUZ-ZM100/125/140

Remote Controller



Optional



Optional



Optional



Optional

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

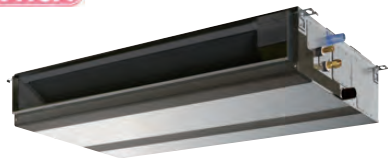
Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUZ-ZM)		35x1	50x1	60x1	71x1	100x1	125x1	140x1	—	—	35x2	50x2	60x2	71x2	—	—	50x3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

SERIES SELECTION

Standard Inverter Series

Indoor Unit

R32
R410A



PEAD-M35/50/60/71/100/125/140

Outdoor Unit

R32

For Single



SUZ-M35



SUZ-M50



SUZ-M60/71



PUZ-M100/125/140

R32

For Multi
(Twin/Triple)



PUZ-M100/125/140

Remote Controller



Optional



Optional



Optional

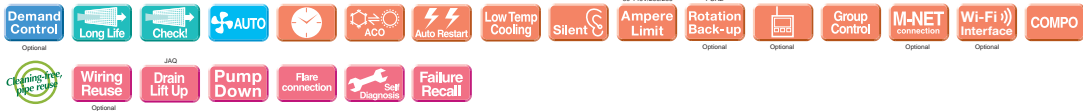


Optional

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

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

PEAD-M SERIES
POWER INVERTER



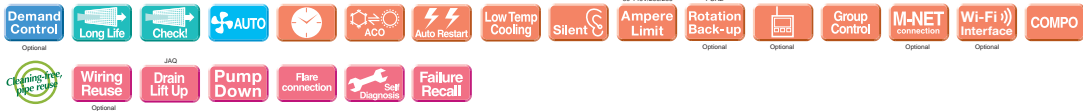
Type	Inverter Heat Pump												
Indoor Unit			PEAD-M35JA(L)	PEAD-M50JA(L)	PEAD-M60JA(L)	PEAD-M71JA(L)	PEAD-M100JA(L)		PEAD-M125JA(L)		PEAD-M140JA(L)		
Outdoor Unit			PUZ-ZM35VKA	PUZ-ZM50VKA	PUZ-ZM60VHA	PUZ-ZM71VHA	PUZ-ZM100VKA	PUZ-ZM100YKA	PUZ-ZM125VKA	PUZ-ZM125YKA	PUZ-ZM140VKA	PUZ-ZM140YKA	
Refrigerant			R32*1										
Power Supply	Source Outdoor (V/Phase/Hz)		Outdoor power supply VKA・VHA: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 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.3	6.2 - 15.3
	Total Input	Rated	kW	0.837(0.820)	1.201(1.187)	1.509(1.495)	1.858(1.844)	2.272(2.256)	2.272(2.256)	3.333(3.315)	3.333(3.315)	3.631(3.611)	3.631(3.611)
	EER*5			4.30(4.39)	4.16(4.21)	4.04(4.08)	3.82(3.85)	4.18(4.21)	4.18(4.21)	3.75(3.77)	3.75(3.77)	3.69(3.71)	3.69(3.71)
	EEL Rank			-	-	-	-	-	-	-	-	-	-
	Design Load	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
	Annual Electricity Consumption*2	kWh/a		217(201)	282(268)	350(337)	428(414)	534(521)	543(532)	-	-	-	-
	SEER*1			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 (Average Season)	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0
		Min - Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
Total Input		Rated	kW	0.917	1.312	1.616	1.932	2.598	2.598	3.349	3.349	3.970	3.970
COP*5				4.47	4.57	4.33	4.14	4.31	4.31	4.18	4.18	4.03	4.03
EEL Rank			-	-	-	-	-	-	-	-	-	-	
Design Load		Rated	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	0	-	-	-	-
Annual Electricity Consumption*2	kWh/a		858	1237	1540	1751	2666	2666	-	-	-	-	
SCOP*5			3.9	4.3	4.0	3.9	4.1	4.1	-	-	-	-	
Energy Efficiency Class			A	A+	A+	A	A+	A+	-	-	-	-	
Operating Current (max)		A	14.1	14.4	20.6	21.0	29.2	10.7	29.3	12.3	30.8	15.8	
	Input [Cooling / Heating]	Rated	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
	Operating Current (max)	A	1.07	1.39	1.62	1.97	2.65	2.65	2.76	2.76	2.78	2.78	
	Dimensions <Panel>	H x W x D	mm	250-900-732	250-1100-732	30(29)	39(38)	39(38)	40(39)	40(39)	44(43)	44(43)	
	Weight <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-Mid-Hi]	m³/min	10.0-12.0-14.0	12.0-14.5-17.0	14.5-18.0-21.0	17.5-21.0-25.0	24.0-29.0-34.0	24.0-29.0-34.0	29.5-35.5-42.0	29.5-35.5-42.0	32.0-39.0-46.0	32.0-39.0-46.0	
	External Static Pressure	Pa	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	
	Sound Level (SPL) [Lo-Mid-Hi]	dB(A)	23 - 27 - 30	26 - 31 - 35	25 - 29 - 33	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	33 - 36 - 40	34 - 38 - 43	34 - 38 - 43	
	Sound Level (PWL)	dB(A)	54	59	55	58	62	62	66	66	67	67	
	Outdoor Unit	Dimensions	H x W x D	mm	630 - 809 - 300	943 - 950 - 330(+25)	943 - 950 - 330(+25)	943 - 950 - 330(+25)	943 - 950 - 330(+25)	943 - 950 - 330(+25)	943 - 950 - 330(+25)	943 - 950 - 330(+25)	943 - 950 - 330(+25)
Weight		kg	46	46	70	70	116	123	116	125	118	131	
Air Volume		Cooling	m³/min	45	45	55	55	110	110	120	120	120	120
		Heating	m³/min	45	45	55	55	110	110	120	120	120	120
Sound Level (SPL)		Cooling	dB(A)	44	44	47	47	49	49	50	50	50	50
		Heating	dB(A)	46	46	49	49	51	51	52	52	52	52
Sound Level (PWL)		Cooling	dB(A)	65	65	67	67	69	69	70	70	70	70
		Heating	dB(A)	66	66	69	69	71	71	72	72	72	72
Operating Current (max)		A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0	
Breaker Size		A	16	16	25	25	32	16	32	16	40	16	
Ext. 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 / 15.88	9.52 / 15.88	9.52 / 15.88
	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
Guaranteed Operating Range [Outdoor]			Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
			Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21

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

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

*3 Optional air protection guide is required where ambient temperature is lower than -5°C. *4 EER/COP and SEER/SCOP for RP35-71 are measured at ESP 35Pa, for RP100 at ESP 37Pa, for RP125/140 at ESP 50Pa.

PEAD-M SERIES
STANDARD INVERTER



Type			Inverter Heat Pump										
Indoor Unit			PEAD-M35JA(L)	PEAD-M50JA(L)	PEAD-M60JA(L)	PEAD-M71JA(L)	PEAD-M100JA(L)		PEAD-M125JA(L)		PEAD-M140JA(L)		
Outdoor Unit			SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA	PUZ-M100VKA	PUZ-M100YKA	PUZ-M125VKA	PUZ-M125YKA	PUZ-M140VKA	PUZ-M140YKA	
Refrigerant			R32*1										
Power Source	Outdoor (V/Phase/Hz)		Outdoor power supply VA・VKA: 230 / Single / 50, YKA: 400 / Three / 50										
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4
		Min - Max	kW	0.8 - 3.9	1.7 - 5.6	1.6 - 6.3	2.2 - 8.1	4.0 - 10.6	4.0 - 10.6	6.0 - 13.0	6.0 - 13.0	6.1 - 14.1	6.1 - 14.1
	Total Input	Rated	kW	0.92(0.90)	1.35(1.33)	1.69(1.67)	2.02(2.00)	2.87(2.85)	2.87(2.85)	4.01(3.99)	4.01(3.99)	4.76	4.76
	EER*5			3.90(4.00)	3.70(3.75)	3.60(3.65)	3.50(3.55)	3.30(3.33)	3.30(3.33)	3.01(3.03)	3.01(3.03)	2.81	2.81
	EEL Rank			-	-	-	-	-	-	-	-	-	-
	Design Load	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4
	Annual Electricity Consumption*2	kWh/a		217(199)	287(271)	353(335)	428(411)	613(598)	613(598)	-	-	-	-
	SEER*1			5.8(6.3)	6.1(6.4)	6.0(6.3)	5.8(6.0)	5.4(5.6)	5.4(5.5)	-	-	-	-
	Energy Efficiency Class			A+ (A++)	A++ (A++)	A+ (A++)	A+ (A++)	A (A)	A (A)	-	-	-	-
	Heating (Average Season)	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	13.5	13.5	15.0
		Min - Max	kW	1.1 - 5.0	1.5 - 7.2	1.6 - 8.0	2.0 - 10.2	2.8 - 12.5	2.8 - 12.5	4.1 - 15.0	4.1 - 15.0	4.2 - 15.8	4.2 - 15.8
Total Input		Rated	kW	1.02	1.46	1.84	2.15	2.94	2.94	3.73	3.73	4.15	4.15
COP*5				4.00	4.10	3.80	3.71	3.80	3.80	3.61	3.61	3.61	3.61
EEL Rank			-	-	-	-	-	-	-	-	-	-	
Design Load		Rated	kW	2.6	4.3	4.6	5.8	8.0	8.0	8.5	8.5	9.4	9.4
Declared Capacity		at reference design temperature	kW	2.3(-10°C)	3.8(-10°C)	4.1(-10°C)	5.2(-10°C)	6.0(-10°C)	6.0(-10°C)	8.5(-10°C)	8.5(-10°C)	9.4(-10°C)	9.4(-10°C)
		at bivalent temperature	kW	2.3(-7°C)	3.8(-7°C)	4.1(-7°C)	5.2(-7°C)	7.0(-7°C)	7.0(-7°C)	8.5(-10°C)	8.5(-10°C)	9.4(-10°C)	9.4(-10°C)
		at operation limit temperature	kW	2.3(-10°C)	3.8(-10°C)	4.1(-10°C)	5.2(-10°C)	4.5(-15°C)	4.5(-15°C)	6.0(-15°C)	6.0(-15°C)	7.0(-15°C)	7.0(-15°C)
Back Up Heating Capacity		kW	0.5	0.5	0.5	0.6	2.0	2.0	-	-	-	-	-
Annual Electricity Consumption*2	kWh/a		931	1430	1594	2080	2795	2795	-	-	-	-	
SCOP*5			3.9	4.2	4.0	3.9	4.0	4.0	-	-	-	-	
Energy Efficiency Class			A	A+	A+	A	A+	A+	-	-	-	-	
Operating Current (max)		A	9.6	14.9	16.4	16.8	22.7	14.2	29.3	14.3	32.8	14.3	
	Input [Cooling / Heating]	Rated	kVA	0.09(0.07)/0.07	0.11(0.09)/0.09	0.12(0.10)/0.10	0.17(0.15)/0.15	0.25(0.23)/0.23	0.25(0.23)/0.23	0.36(0.34)/0.34	0.36(0.34)/0.34	0.39(0.37)/0.37	0.39(0.37)/0.37
	Operating Current (max)	A	1.07	1.39	1.62	1.97	2.65	2.65	2.76	2.76	2.78	2.78	
	Dimensions <Panel>	H x W x D	mm	250-900-732	250-1100-732	30(29)	39(38)	39(38)	40(39)	40(39)	44(43)	44(43)	
	Weight <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-Mid-Hi]	m³/min	10.0-12.0-14.0	12.0-14.5-17.0	14.5-18.0-21.0	17.5-21.0-25.0	24.0-29.0-34.0	24.0-29.0-34.0	29.5-35.5-42.0	29.5-35.5-42.0	32.0-39.0-46.0	32.0-39.0-46.0	
	External Static Pressure	Pa	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	35 / 50 / 70	
	Sound Level (SPL) [Lo-Mid-Hi]	dB(A)	23 - 27 - 30	26 - 31 - 35	25 - 29 - 33	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	33 - 36 - 40	34 - 38 - 43	34 - 38 - 43	
	Sound Level (PWL)	dB(A)	54	59	55	58	62	62	66	66	67	67	
	Outdoor Unit	Dimensions	H x W x D	mm	550-800-285	714-800-285	880-840-330	880-840-330	981-1050-330	981-1050-330	981-1050-330(+40)	981-1050-330(+40)	981-1050-330(+40)
Weight		kg	35	41	54	55	76	78	84	85	84	85	
Air Volume		Cooling	m³/min	34.3	45.8	50.1	50.1	79.0	79.0	86.0	86.0	86.0	
		Heating	m³/min	32.7	43.7	50.1	50.1	79.0	79.0	92.0	92.0	92.0	
Sound Level (SPL)		Cooling	dB(A)	48	48	49	49	51	51	54	54	55	
		Heating	dB(A)	48	49	51	51	54	54	56	56	57	
Sound Level (PWL)		Cooling	dB(A)	59	64	65	66	70	70	72	72	73	
		Heating	dB(A)	59	64	65	66	70	70	72	72	73	
Operating Current (max)		A	8.5	13.5	14.8	14.8	20.0	11.5	26.5	11.5	30.0	11.5	
Breaker Size		A	16	20	20	20	32	16	32	16	40	16	
Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	20	30	30	30	55	55	65	65	65	
	Max. Height	Out-In	m	12	30	30	30	30	30	30	30	30	
Guaranteed Operating Range [Outdoor]	Cooling*3	°C	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	
	Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	

SERIES SELECTION

Power Inverter Series



Indoor Unit

R32
R410A



PEAD-M35/50/60/71/100/125/140

Outdoor Unit

R410A

For Single



PUHZ-ZRP35/50



PUHZ-ZRP60/71



PUHZ-ZRP100/125/140

R410A

For Multi
(Twin/Triple/Quadruple)



PUHZ-ZRP71



PUHZ-ZRP100/125/140/200/250

Remote Controller



Optional



Optional



Optional



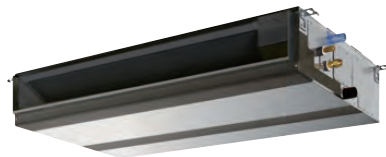
Optional

Standard Inverter Series



Indoor Unit

R32
R410A



PEAD-M35/50/60/71/100/125/140

Outdoor Unit

R410A

For Single



SUZ-KA35



SUZ-KA50/60/71



PUHZ-P100/125/140

R410A

For Multi
(Twin/Triple/Quadruple)



PUHZ-P100/125/140



PUHZ-P200/250

Remote Controller



Optional



Optional



Optional

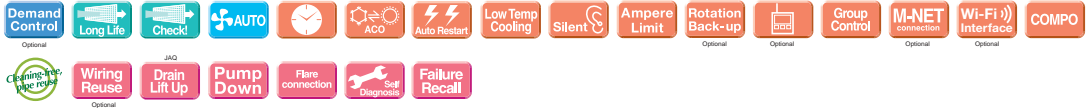


Optional

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

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUHZ-ZRP)		35x1	50x1	60x1	71x1	100x1	125x1	140x1	—	—	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	—	—	—	—	—	—	—	—	—	MSDD-50TR-E				MSDD-50WR-E		MSDT-111R-E			MSDF-1111R-E	
Standard Inverter (PUHZ-P&SUZ)		35x1	50x1	60x1	71x1	100x1	125x1	140x1	—	—	—	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	—	—	—	—	—	—	—	—	—	—	MSDD-50TR-E			MSDD-50WR-E		MSDT-111R-E			MSDF-1111R-E	

PEAD-M SERIES
POWER INVERTER



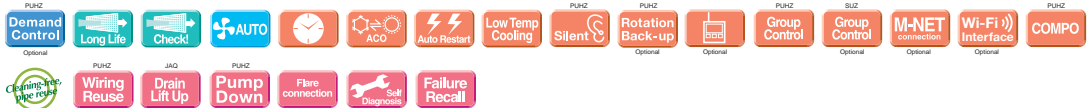
Type	Inverter Heat Pump													
Indoor Unit			PEAD-M35JA(L)	PEAD-M50JA(L)	PEAD-M60JA(L)	PEAD-M71JA(L)	PEAD-M100JA(L)		PEAD-M125JA(L)		PEAD-M140JA(L)			
Outdoor Unit			PUHZ-ZRP35VKA2	PUHZ-ZRP50VKA2	PUHZ-ZRP60VHA2	PUHZ-ZRP71VHA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA3	PUHZ-ZRP125VKA3	PUHZ-ZRP125YKA3	PUHZ-ZRP140VKA3	PUHZ-ZRP140YKA3		
Refrigerant	R410A*1													
Power Supply	Outdoor power supply VKA・VHA-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 - 6.7	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	Rated	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	Rated		5.7(6.1)	5.7(6.0)	6.0(6.2)	6.0(6.1)	5.8(6.0)	5.8(6.0)	—	—	—	—	
	Energy Efficiency Class			A+(A++)	A+(A++)	A+(A++)	A+(A++)	A+(A++)	A+(A++)	—	—	—	—	
	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0	
Heating (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	5.0 - 16.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0	
	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	Rated	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+	—	—	—	—		
Operating Current (max)		A	14.1	14.4	20.6	21.0	29.2	29.2	10.7	29.3	12.3	30.8	15.8	
	Input [Cooling / Heating]	Rated	kW	0.09(0.07)/0.07	0.11(0.09)/0.09	0.12(0.10)/0.10	0.17(0.15)/0.15	0.25(0.23)/0.23	0.25(0.23)/0.23	0.36(0.34)/0.34	0.36(0.34)/0.34	0.39(0.37)/0.37	0.39(0.37)/0.37	
	Operating Current (max)	A	1.07	1.39	1.62	1.97	2.65	2.65	2.76	2.76	2.78	2.78		
	Dimensions <Panel>	H × W × D	mm	250-900-732			250-1100-732		250-1400-732		250-1600-732			
	Weight <Panel>	kg	26(25)			30(29)		39(38)		40(39)		44(43)		
	Air Volume [Lo-Mid-Hi]	m³/min	10.0-12.0-14.0			12.0-14.5-17.0		14.5-18.0-21.0		17.5-21.0-25.0		24.0-29.0-34.0		
	External Static Pressure	Pa	35 / 50 / 70			100 / 150		190 / 340		340 / 500		500 / 650		
	Sound Level (SPL) [Lo-Mid-Hi]	dB(A)	23 - 27 - 30			26 - 31 - 35		25 - 29 - 33		26 - 30 - 34		29 - 34 - 38		
	Sound Level (PWL)	dB(A)	54			59		55		58		62		
	Outdoor Unit	Dimensions	H × W × D	mm	630 - 809 - 300			943 - 950 - 330(+30)		1338 - 1050 - 330(+40)		1338 - 1050 - 330(+40)		
Weight		kg	43			46		70		70		116		
Air Volume		Cooling	m³/min	45			45		55		55		110	
		Heating	m³/min	45			45		55		55		110	
Sound Level (SPL)		Cooling	dB(A)	44			44		47		47		49	
		Heating	dB(A)	46			46		48		48		51	
Sound Level (PWL)		Cooling	dB(A)	65			65		67		67		69	
		Heating	dB(A)	65			65		67		67		69	
Operating Current (max)		A	13.0			13.0		19.0		19.0		26.5		
Breaker Size		A	16			16		25		25		32		
Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 12.7			6.35 / 12.7		9.52 / 15.88		9.52 / 15.88			
	Max. Length	Out-In	m	50			50		50		75			
	Max. Height	Out-In	m	30			30		30		30			
		Cooling*3	°C	-15 ~ +46			-15 ~ +46		-15 ~ +46		-15 ~ +46		-15 ~ +46	
Guaranteed Operating Range [Outdoor]			Heating	°C	-11 ~ +21			-11 ~ +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. *4 EER/COP and SEER/SCOP for RP35-71 are measured at ESP 35Pa, for RP100 at ESP 37Pa, for RP125/140 at ESP 50Pa.

PEAD-M SERIES
STANDARD INVERTER



Type			Inverter Heat Pump											
Indoor Unit			PEAD-M35JA(L)	PEAD-M50JA(L)	PEAD-M60JA(L)	PEAD-M71JA(L)	PEAD-M100JA(L)		PEAD-M125JA(L)		PEAD-M140JA(L)			
Outdoor Unit			SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6	SUZ-KA71VA6	PUHZ-P100VKA	PUHZ-P100YKA	PUHZ-P125VKA	PUHZ-P125YKA	PUHZ-P140VKA	PUHZ-P140YKA		
Refrigerant			R410A*1											
Power Supply	Source	Outdoor power supply VA・VKA:230 / Single / 50, YKA:400 / Three / 50												
Cooling	Capacity	Rated	kW	3.6	4.9	5.7	7.1	9.4	9.4	12.1	12.1	13.6	13.6	
		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)	5.9 (6.1)	6.1 (6.2)	5.1 (5.2)	5.1 (5.2)	—	—	—	—	
		Energy Efficiency Class		A+ (A++)	A+ (A++)	A+ (A++)	A+ (A++)	A (A)	A (A)	—	—	—	—	
				7.0	7.0	7.0	8.0	11.2	11.2	13.5	13.5	15.0	15.0	
Heating (Average Season)	Capacity	Rated	kW	4.1	5.9	7.0	8.0	11.2	11.2	13.5	13.5	15.0	15.0	
		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	
	Total Input	Rated	kW	1.110	1.620	1.930	2.040	2.94	2.94	3.73	3.73	4.27	4.27	
	COP*4			—	—	—	—	3.80	3.80	3.61	3.61	3.51	3.51	
		EEL Rank		—	—	—	—	—	—	—	—	—	—	
	Design Load		kW	2.8	4.4	4.5	6.0	8.0	8.0	—	—	—	—	
	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 Capacity		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			4.0	4.2	4.0	3.9	4.0	4.0	—	—	—	—		
	Energy Efficiency Class		A+	A+	A+	A	A+	A+	—	—	—	—		
Operating Current (max)		A	9.3	13.4	15.6	18.1	22.7	22.7	29.3	29.3	32.8	32.8		
Indoor Unit	Input [Cooling / Heating]	Rated	kW	0.09(0.07) / 0.07	0.11(0.09) / 0.09	0.12(0.10) / 0.10	0.17(0.15) / 0.15	0.25(0.23) / 0.23	0.25(0.23) / 0.23	0.36(0.34) / 0.34	0.36(0.34) / 0.34	0.39(0.37) / 0.37	0.39(0.37) / 0.37	
	Operating Current (max)		A	1.07	1.39	1.62	1.97	2.65	2.65	2.76	2.76	2.78	2.78	
	Dimensions <Panel>	H × W × D	mm	250-900-732			250-1100-732			250-1400-732			250-1600-732	
	Weight <Panel>		kg	26 (25)			30 (29)			39 (38)			44 (43)	
	Air Volume [Lo-Mid-Hi]		m³/min	10.0 - 12.0 - 14.0			12.0 - 14.5 - 17.0			14.5 - 18.0 - 21.0			17.5 - 21.0 - 25.0	
	External Static Pressure		Pa	35 / 50 / 70 / 100 / 150			24.0 - 29.0 - 34.0			24.0 - 29.0 - 34.0			29.5 - 35.5 - 42.0	
	Sound Level (SPL) [Lo-Mid-Hi]		dB(A)	23 - 27 - 30			26 - 31 - 35			25 - 29 - 33			26 - 30 - 34	
	Sound Level (PWL)		dB(A)	54			59			55			58	
			mm	550-800-285			880-840-330			981-1050-330				
			kg	35			54			76			94	
Outdoor Unit	Weight		m³/min	36.3			44.6			40.9			50.1	
	Air Volume	Cooling	m³/min	34.8			44.6			49.2			48.2	
		Heating	m³/min	49			52			55			55	
	Sound Level (SPL)	Cooling	dB(A)	50			52			55			54	
		Heating	dB(A)	62			65			69			70	
	Sound Level (PWL)	Cooling	dB(A)	62			65			69			70	
	Operating Current (max)		A	8.2			12.0			14.0			16.1	
	Breaker Size		A	10			20			20			32	
	Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 9.52			6.35 / 12.7			6.35 / 15.88			9.52 / 15.88
		Max. Length	Out-In	m	20			30			30			50
	Max. Height	Out-In	m	12			30			30			30	
Guaranteed Operating Range [Outdoor]		Cooling*3	°C	-10 ~ +46			-15 ~ +46			-15 ~ +46			-15 ~ +46	
		Heating	°C	-10 ~ +24			-10 ~ +24			-15 ~ +21			-15 ~ +21	

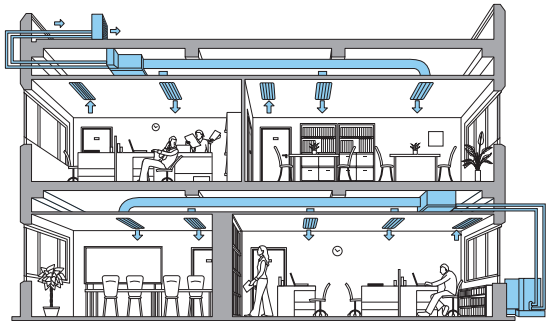
PEA SERIES

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

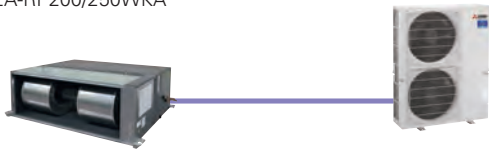
With the addition of more refrigerant, the maximum length for refrigerant piping has been increased to 100 metres. As a result, it is much easier to create the optimum layout for unit installation.

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

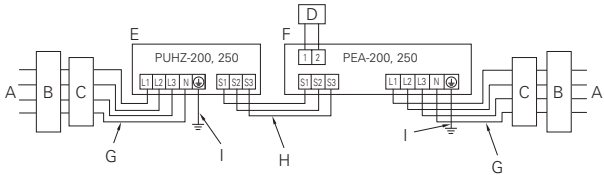
Wide-ranging Line-up from 20–25kW – Extensive Array of Choices to Match Building Size

[System Image]

PEA-RP200/250WKA



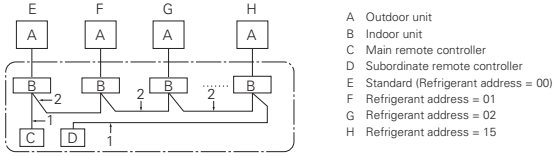
- For PEA-200, 250



PAR-40MAA Group Control

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

- For PEA-200, 250



Indoor Unit

PEA-RP200/250WKA

Outdoor Unit

Power Inverter Series

PUHZ-ZRP200/250

Standard Inverter Series

PUHZ-P200/250

Remote Controller

Optional

Optional

Optional

PEA-RP SERIES
POWER INVERTER



Type				Inverter Heat Pump				
Indoor Unit				PEA-RP200WKA		PEA-RP250WKA		
Outdoor Unit				PUHZ-ZRP200YKA3		PUHZ-ZRP250YKA3		
Refrigerant				R410A*1				
Power Supply	Source			Outdoor power supply				
	Outdoor (V/Phase/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 (Average Season)	Capacity	Rated	kW	22.4		27.0		
		Min - Max	kW	9.5 - 25.0		12.5 - 31.0		
	Total Input	Rated	kW	6.58		8.43		
	COP			3.40		3.20		
		EEL Rank			-		-	
Operating Current (max)				23.3		26.5		
Indoor Unit	Input [Cooling / Heating]		Rated	kW	0.66		0.80	
	Operating Current (max)			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 Pressure			Pa	(60) / (75) / (100) / 150			
	Sound Level (SPL) [Lo-Hi]			dB(A)	38 - 41 - 44		40 - 43 - 46	
	Sound Level (PWL)			dB(A)	65 - 66 - 67		70 - 71 - 72	
	Outdoor Unit	Dimensions		H x W x D	mm	1338 - 1050 - 330 (+40)		
Weight			kg	135		135		
Air Volume		Cooling	m³/min	140		140		
		Heating	m³/min	140		140		
Sound Level (SPL)		Cooling	dB(A)	59		59		
		Heating	dB(A)	62		62		
Sound Level (PWL)		Cooling	dB(A)	77		77		
		Operating Current (max)		A	19.0		21.0	
Breaker Size			A	32		32		
Ext. Piping	Diameter		Liquid / Gas	mm	9.52 / 25.4		12.7 / 25.4	
	Max. Length		Out-In	m	100		100	
	Max. Height		Out-In	m	30		30	
Guaranteed Operating Range		Cooling*3	°C	-15 ~ +46		-15 ~ +46		
		Heating	°C	-20 ~ +21		-20 ~ +21		

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

PEA-RP SERIES
STANDARD INVERTER



Type				Inverter Heat Pump				
Indoor Unit				PEA-RP200WKA		PEA-RP250WKA		
Outdoor Unit				PUHZ-P200YKA3		PUHZ-P250YKA3		
Refrigerant				R410A*1				
Power Supply	Source			Outdoor power supply				
	Outdoor (V/Phase/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	6.29		8.14		
	EER			3.02		2.70		
		EEL Rank		-		-		
Heating (Average Season)	Capacity	Rated	kW	22.4		27.0		
		Min - Max	kW	9.5 - 25.0		12.5 - 31.0		
	Total Input	Rated	kW	6.78		8.70		
	COP			3.30		3.10		
		EEL Rank		-		-		
Operating Current (max)				23.3		26.5		
Indoor Unit	Input [Cooling / Heating]		Rated	kW	0.66		0.80	
	Operating Current (max)		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 Pressure			Pa	(60) / (75) / (100) / 150			
	Sound Level (SPL) [Lo-Mid-Hi]			dB(A)	38 - 41 - 44		40 - 43 - 46	
	Sound Level (PWL)			dB(A)	65 - 66 - 67		70 - 71 - 72	
	Outdoor Unit	Dimensions		H x W x D	mm	1338 - 1050 - 330 (+40)		
Weight			kg	127		135		
Air Volume		Cooling	m³/min	140		140		
		Heating	m³/min	140		140		
Sound Level (SPL)		Cooling	dB(A)	58		59		
		Heating	dB(A)	60		62		
Sound Level (PWL)		Cooling	dB(A)	78		77		
		Operating Current (max)	A	19.0		21.0		
Breaker Size		A	32		32			
Ext. Piping	Diameter	Liquid / Gas	mm	9.52 / 25.4		12.7/25.4		
	Max. Length	Out-In	m	70		70		
	Max. Height	Out-In	m	30		30		
Guaranteed Operating Range [Outdoor]		Cooling*3	°C	-15 ~ +46		-15 ~ +46		
		Heating	°C	-20 ~ +21		-20 ~ +21		

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

PKA SERIES

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.

R32
R410A

PKA-M35/50HA(L)

PKA-M60/71/100KA(L)

R32
R410A



Wired & Wireless Model

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



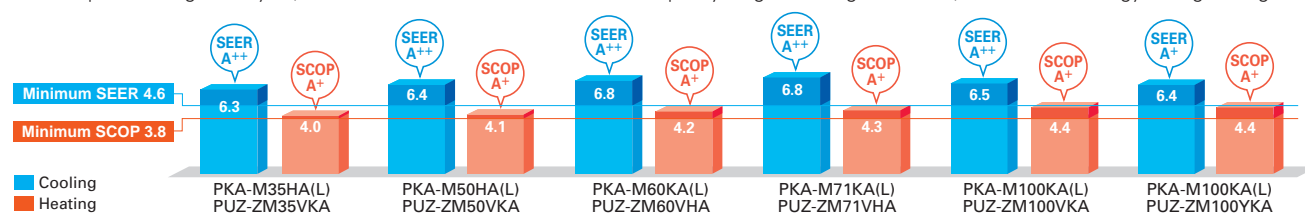
Flat Panel & Pure White Finish

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



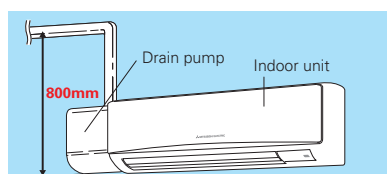
ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

Highly efficient indoor unit heat exchangers and 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-40MAA and PAC-YT52CRA wired remote controllers can be used as well.

* Connection to PAR-40MAA/PAC-YT52CRA requires PAC-SH29TC-E (optional).

Main Functions

- Night Setback
- Energy-saving Mode
- Multi Language
- Weekly Timer
- Refrigerant Leak Check

* For details, please refer to page 175.



SERIES SELECTION

Power Inverter Series

Indoor Unit

R32
R410A



PKA-M35/50HA(L)

R32
R410A



PKA-M60/71/100KA(L)

Outdoor Unit

R32

For Single



PUZ-ZM35/50



PUZ-ZM60/71



PUZ-ZM100/125/140

R32

For Multi
(Twin/Triple)



PUZ-ZM71



PUZ-ZM100/125/140

Remote Controller



Optional (*)



Optional



Optional (*)



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

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

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

SERIES SELECTION

Standard Inverter Series

Indoor Unit

R32
R410A



PKA-M35/50HA(L)



PKA-M60/71/100KA(L)

Outdoor Unit

R32

For Single



PUZ-M100

R32

For Multi
(Twin/Triple)



PUZ-M100/125/140

Remote Controller



Optional (*)



Optional



Optional (*)



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

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

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

PKA-M SERIES
POWER INVERTER



Type				Inverter Heat Pump												
Indoor Unit				PKA-M35HA(L)		PKA-M50HA(L)		PKA-M60KA(L)		PKA-M71KA(L)		PKA-M100KA(L)				
Outdoor Unit				PUZ-ZM35VKA		PUZ-ZM50VKA		PUZ-ZM60VHA		PUZ-ZM71VHA		PUZ-ZM100VKA		PUZ-ZM100YKA		
Refrigerant				R32*1												
Power Supply				Outdoor power supply 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	0.869		1.239		1.560		1.863		2.405		2.405		
	EER			4.14		3.71		3.91		3.81		3.95		3.95		
	EEL Rank			-		-		-		-		-		-		
	Design Load		kW	3.6		4.6		6.1		7.1		9.5		9.5		
	Annual Electricity Consumption*2		kWh/a	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++		
	Heating (Average Season)	Capacity	Rated	kW	4.1		5.0		7.0		8.0		11.2		11.2	
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		
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		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)		
Back Up Heating Capacity		at operation limit temperature	kW	2.2 (-11°C)		3.2 (-11°C)		2.8 (-20°C)		3.5 (-20°C)		5.8 (-20°C)		5.8 (-20°C)		
			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+		A+		
Operating Current (max)				A	13.4		13.4		19.4		19.4		27.1		8.6	
Indoor Unit	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		
		Operating Current (max)	A	0.40		0.40		0.43		0.43		0.57		0.57		
	Dimensions <Panel> H x W x D		mm	295・898・249		295・898・249		365・1170・295		365・1170・295		365・1170・295		365・1170・295		
	Weight <Panel>		kg	13		13		21		21		21		21		
	Air Volume [Lo-Mid-Hi]		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) [Lo-Mid-Hi]		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 x W x D		mm	630・809・300		630・809・300		943・950・330 (+25)		943・950・330 (+25)		1338・1050・330 (+40)		1338・1050・330 (+40)		
	Weight		kg	46		46		70		70		116		123		
	Air Volume		m³/min	45		45		55		55		110		110		
Outdoor Unit	Sound Level (SPL)	Cooling	dB(A)	44		44		47		47		49		49		
		Heating	dB(A)	46		46		49		49		51		51		
	Sound Level (PWL)	Cooling	dB(A)	65		65		67		67		69		69		
		Heating	dB(A)	65		65		67		67		69		69		
	Operating Current (max)		A	13.0		13.0		19.0		19.0		26.5		8.0		
	Breaker Size		A	16		16		25		25		32		16		
	Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 12.7		6.35 / 12.7		9.52 / 15.88		9.52 / 15.88		9.52 / 15.88		9.52 / 15.88	
		Max. Length	Out-In	m	50		50		55		55		100		100	
		Max. Height	Out-In	m	30		30		30		30		30		30	
	Guaranteed Operating Range [Outdoor]		Cooling*3	°C	-15 ~ +46		-15 ~ +46		-15 ~ +46		-15 ~ +46		-15 ~ +46		-15 ~ +46	
		Heating	°C	-11 ~ +21		-11 ~ +21		-20 ~ +21		-20 ~ +21		-20 ~ +21		-20 ~ +21		

SERIES SELECTION

Power Inverter Series



Indoor Unit

R32
R410A



PKA-M35/50HA(L)



PKA-M60/71/100KA(L)

Outdoor Unit

R410A

For Single



PUHZ-ZRP35/50



PUHZ-ZRP60/71



PUHZ-ZRP100

R410A

For Multi
(Twin/Triple/Quadruple)



PUHZ-ZRP71



PUHZ-ZRP100/125/140/200/250

Remote Controller



Optional (*)



Optional



Optional (*)



Standard Inverter Series



Indoor Unit

R32
R410A



PKA-M35/50HA(L)



PKA-M60/71/100KA(L)

Outdoor Unit

R410A

For Single



PUHZ-P100

R410A

For Multi
(Twin/Triple/Quadruple)



PUHZ-P100/125/140



PUHZ-P200/250

Remote Controller



Optional (*)



Optional



Optional (*)



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

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

Indoor Unit Combination		Outdoor Unit Capacity																					
		For Single									For Twin						For Triple			For Quadruple			
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250		
Power Inverter (PUHZ-ZRP)		35x1	50x1	60x1	71x1	100x1	—	—	—	—	35x2	50x2	60x2	71x2	100x2	—	50x3	60x3	71x3	50x4	60x4		
	Distribution Pipe	—	—	—	—	—	—	—	—	—	MSDD-50TR-E				MSDD-50WR-E		—	MSDT-111R-E			MSDF-1111R-E		
Standard Inverter (PUHZ-P)		—	—	—	—	100x1	—	—	—	—	—	50x2	60x2	71x2	100x2	—	50x3	60x3	71x3	50x4	60x4		
	Distribution Pipe	—	—	—	—	—	—	—	—	—	—	MSDD-50TR-E				MSDD-50WR-E		—	MSDT-111R-E			MSDF-1111R-E	

PKA-M SERIES
POWER INVERTER



Type				Inverter Heat Pump						
Indoor Unit				PKA-M35HA(L)	PKA-M50HA(L)	PKA-M60KA(L)	PKA-M71KA(L)	PKA-M100KA(L)		
Outdoor Unit				PUHZ-ZRP35VKA2	PUHZ-ZRP50VKA2	PUHZ-ZRP60VHA2	PUHZ-ZRP71VHA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA3	
Refrigerant				R410A*1						
Power Supply	Source	Outdoor power 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			A+	A	A++	A++	A++	A++	
	Heating (Average Season)	Capacity	Rated	kW	4.1	5.0	7.0	8.0	11.2	11.2
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	
Total Input		Rated	kW	1.07	1.50	1.96	2.19	3.04	3.04	
COP				3.83	3.33	3.57	3.65	3.68	3.68	
EEL Rank			-	-	-	-	-	-		
Design Load			kW	2.4	3.3	4.4	4.7	7.8	7.8	
Declared Capacity		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	kW	2.2 (-11°C)	3.2 (-11°C)	2.8 (-20°C)	3.5 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	
Back Up Heating Capacity			kW	0	0	0	0	0	0	
Annual Electricity Consumption*2		kWh/a	847	1160	1473	1532	2608	2608		
SCOP			3.9	4.0	4.2	4.3	4.1	4.1		
Energy Efficiency Class			A	A+	A+	A+	A+	A+		
Operating Current (max)				A	13.4	13.4	19.4	19.4	27.1	
Indoor Unit	Input	Rated	kW	0.04	0.04	0.06	0.06	0.08	0.08	
			A <td>0.4</td> <td>0.4</td> <td>0.43</td> <td>0.43</td> <td>0.57</td> <td>0.57</td>	0.4	0.4	0.43	0.43	0.57	0.57	
	Operating Current (max)			A	0.4	0.4	0.43	0.43	0.57	
	Dimensions <Panel>	H × W × D	mm	295 - 898 - 249			365 - 1170 - 295			
	Weight <Panel>		kg	13	13	21	21	110	110	
	Air Volume [Lo-Mid-Hi]		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) [Lo-Mid-Hi]		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 × W × D	mm	630 - 809 - 300			943 - 950 - 330 (+30)			
	Weight		kg	43	46	70	70	116	123	
Outdoor Unit	Air Volume	Cooling	m³/min	45	45	55	55	110	110	
		Heating	m³/min	45	45	55	55	110	110	
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	49	49	
		Heating	dB(A)	46	46	48	48	51	51	
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	69	69	
		Heating	dB(A)	65	65	67	67	69	69	
	Operating Current (max)		A	13.0	13.0	19.0	19.0	26.5	8.0	
	Breaker Size		A	16	16	25	25	32	16	
	Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
		Max. Length	Out-In	m	50	50	50	50	75	75
Max. Height		Out-In	m	30	30	30	30	30	30	
Guaranteed Operating Range [Outdoor]		Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	
	Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21		

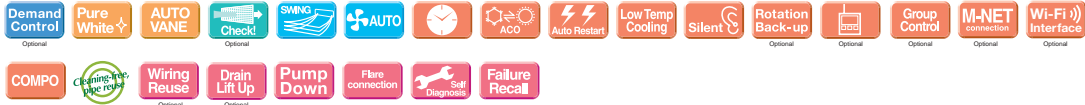
*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if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

PKA-M SERIES
STANDARD INVERTER



Type				Inverter Heat Pump	
Indoor Unit				PKA-M100KA(L)	
Outdoor Unit				PUHZ-P100VKA	PUHZ-P100YKA
Refrigerant				R410A*	
Power Supply	Source				Outdoor power supply
	Outdoor (V/Phase/Hz)				
Cooling	Capacity	Rated	kW	230 / Single / 50	400 / Three / 50
		Min - Max	kW	9.4	9.4
	Total Input	Rated	kW	3.7 ~ 10.6	3.7 ~ 10.6
	EER			3.12	3.12
				3.01	3.01
	Design Load		kW	—	—
	Annual Electricity Consumption*2		kWh/a	9.4	9.4
	SEER			586	586
				5.6	5.6
		Energy Efficiency Class		A+	A+
Heating (Average Season)	Capacity	Rated	kW	11.2	11.2
		Min - Max	kW	2.8 - 12.5	2.8 - 12.5
	Total Input	Rated	kW	3.48	3.48
	COP			3.21	3.21
				—	—
	Design Load		kW	8.0	8.0
	Declared Capacity	at reference design temperature	kW	6.0 (–10°C)	6.0 (–10°C)
		at bivalent temperature	kW	7.0 (–7°C)	7.0 (–7°C)
		at operation limit temperature	kW	4.5 (–15°C)	4.5 (–15°C)
	Back Up Heating Capacity		kW	2.0	2.0
Annual Electricity Consumption*2		kWh/a	2795	2795	
SCOP			4.0	4.0	
	Energy Efficiency Class		A+	A+	
Operating Current (max)			A	20.6	12.1
Indoor Unit	Input	Rated	kW	0.08	0.08
	Operating Current (max)		A	0.57	0.57
	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
	Dimensions	H × W × D	mm	981 - 1050 - 330	
Outdoor Unit	Weight		kg	76	78
	Air Volume	Cooling	m³/min	79	79
		Heating	m³/min	79	79
	Sound Level (SPL)	Cooling	dB(A)	51	51
		Heating	dB(A)	54	54
	Sound Level (PWL)	Cooling	dB(A)	70	70
		Heating	dB(A)	70	70
	Operating Current (max)		A	20.0	11.5
	Breaker Size		A	32	16
	Ext. Piping	Diameter	Liquid / Gas	mm	9.52 / 15.88
Max. Length		Out-In	m	50	50
Max. Height		Out-In	m	30	30
Guaranteed Operating Range [Outdoor]		Cooling*3	°C	–15 ~ +46	–15 ~ +46
		Heating	°C	–15 ~ +21	–15 ~ +21

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

The GWP of 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.

PCA-KA SERIES

R32
R410A

PCA-M35/50/60/71/100/125/140KA

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



Stylish Indoor Unit Design

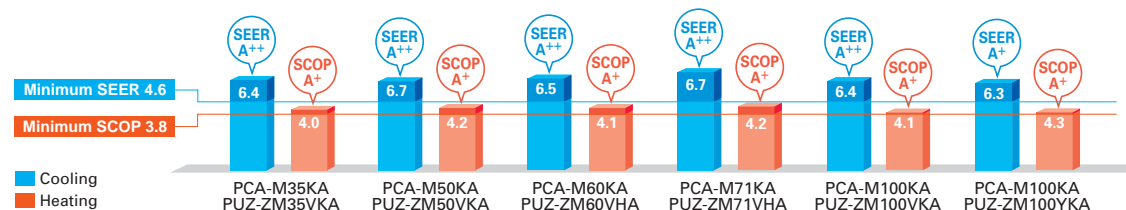
A stylish square-like design is adopted for the indoor units of all models. As a result, the units blend in better with the ceiling.



PCA-KA

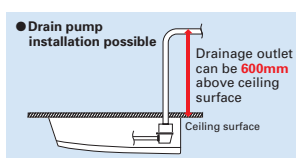
ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

A direct-current (DC) fan motor is installed 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 contributes to an impressive reduction in the cost of annual electricity.



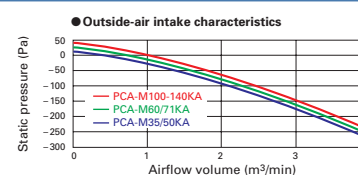
Optional Drain Pump for Full-capacity Models

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



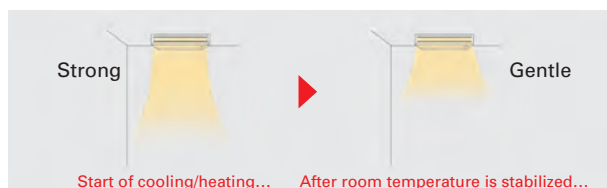
Outside-air Intake

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

PCA-HA SERIES

R410A

PCA-RP71HAQ

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



Tough on Oily Smoke

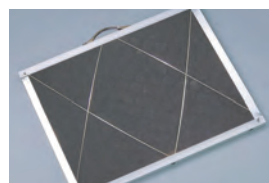
A durable stainless steel casing that is resistant to oil and grease is provided to protect the surface of the body. Grimy dirt and stains are removed easily, enabling the unit to be kept clean at all times.

High-performance Oil Mist Filter

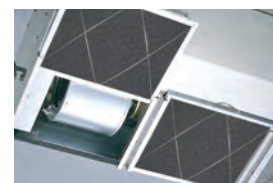
A high-performance heavy-duty oil mist filter is included as standard equipment. The filtering system is more efficient than conventional filters, thereby effectively reducing the oily smoke entering the air conditioner. The filter is disposable, thereby enabling trouble-free cleaning and maintenance.

Oil Mist Filter Cleaning

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



Oil mist filter



Pull the handle to easily slide the filter out

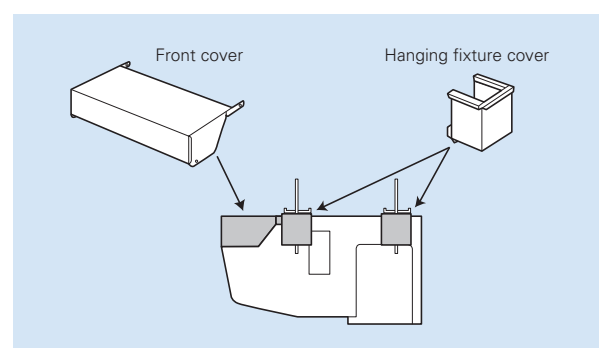
Easy Maintenance – Even for Cleaning the Fan

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



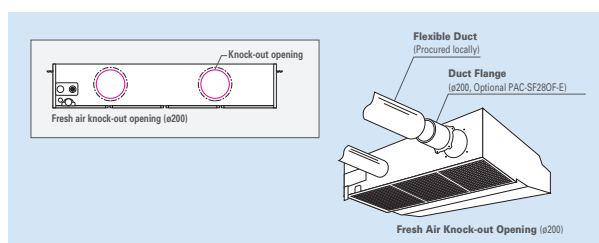
Cosmetic Front and Hanging Fixture Covers (Option)

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



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.

SERIES SELECTION

Power Inverter Series



Indoor Unit

R32
R410A



PCA-M35/50/60/71/100/125/140KA

Outdoor Unit

R32

For Single



PUZ-ZM35/50



PUZ-ZM60/71



PUZ-ZM100/125/140

R32

For Multi
(Twin/Triple)



PUZ-ZM71



PUZ-ZM100/125/140

Remote Controller



Optional



Optional



Optional



Optional

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

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

SERIES SELECTION

Standard Inverter Series



Indoor Unit

R32
R410A



PCA-M35/50/60/71/100/125/140KA

Outdoor Unit

R32

For Single



SUZ-M35



SUZ-M50



SUZ-M60/71



PUZ-M100/125/140

R32

For Multi
(Twin/Triple)



PUZ-M100/125/140

Remote Controller



Optional



Optional



Optional



Optional

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

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Standard Inverter (SUZ-M & PUZ-M)		35x1	50x1	60x1	71x1	100x1	125x1	140x1	—	—	—	50x2	60x2	71x2	—	—	50x3	—	—	—	—
	Distribution Pipe	—	—	—	—	—	—	—	—	—	—	MSDD-50TR2-E			—		MSDT-111R2-E			—	

PCA-M KA SERIES
POWER INVERTER



Type		Inverter Heat Pump									
Indoor Unit		PCA-M35KA	PCA-M50KA	PCA-M60KA	PCA-M71KA	PCA-M100KA		PCA-M125KA		PCA-M140KA	
Outdoor Unit		PUZ-ZM35VKA	PUZ-ZM50VKA	PUZ-ZM60VHA	PUZ-ZM71VHA	PUZ-ZM100VKA	PUZ-ZM100YKA	PUZ-ZM125VKA	PUZ-ZM125YKA	PUZ-ZM140VKA	PUZ-ZM140YKA
Refrigerant		R32*1									
Power Supply		Outdoor power supply VKA · VHA:230 / Single / 50, YKA:400 / Three / 50									
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	12.5	13.4	13.4
	Total Input	Min - Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0
		Rated	kW	0.829	1.250	1.521	1.829	2.317	3.846	3.941	3.941
	EER			4.34	4.00	4.01	3.88	4.10	3.25	3.40	3.40
	EEL Rank			-	-	-	-	-	-	-	-
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	12.5	-	-
	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++	-	-
	Capacity	Rated	kW	4.1	5.5	7.0	8.0	11.2	14.0	16.0	16.0
Heating (Average Season)	Total Input	Min - Max	kW	1.6-5.2	2.5 - 6.6	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
		Rated	kW	1.019	1.361	1.745	2.156	3.018	3.954	4.432	4.432
	COP			4.02	4.04	4.01	3.71	3.71	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 Capacity		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	-	-	-
Operating Current (max)			A	13.3	13.4	19.4	19.4	27.2	8.7	27.3	10.3
Indoor Unit	Input	Rated	kW	0.04	0.05	0.06	0.06	0.09	0.09	0.11	0.11
		Operating Current (max)	A	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76
	Dimensions <Panel>	H × W × D	mm	230 - 960 - 680	230 - 960 - 680	230 - 1290 - 680	230 - 1290 - 680	230 - 1600 - 680	230 - 1600 - 680	230 - 1600 - 680	230 - 1600 - 680
	Weight <Panel>		kg	25	26	32	32	37	37	38	38
	Air Volume [Lo-Mi2-Mi1-Hi]		m³/min	10-11-12-14	10-11-13-15	15-16-17-19	16-17-18-20	22-24-26-28	22-24-26-28	23-25-27-29	23-25-27-29
	Sound Level (SPL) [Lo-Mi2-Mi1-Hi]		dB(A)	31-33-36-39	32-34-37-40	33-35-37-40	35-37-39-41	37-39-41-43	37-39-41-43	39-41-43-45	39-41-43-45
	Sound Level (PWL)		dB(A)	60	60	60	62	63	63	65	65
	Dimensions	H × W × D	mm	630 - 809 - 300	630 - 809 - 300	943 - 950 - 330 (+25)	943 - 950 - 330 (+25)	1116 - 1123 - 123	1116 - 1123 - 123	1338 - 1050 - 330 (+40)	1338 - 1050 - 330 (+40)
	Weight		kg	46	46	70	70	116	116	125	125
	Air Volume	Cooling	m³/min	45	45	55	55	110	110	120	120
Outdoor Unit	Sound Level (SPL)	Heating	m³/min	45	45	55	55	110	110	120	120
		Cooling	dB(A)	44	44	47	47	49	49	50	50
	Sound Level (PWL)	Heating	dB(A)	46	46	49	49	51	51	52	52
		Cooling	dB(A)	46	46	49	49	51	51	52	52
	Operating Current (max)		A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5
	Breaker Size		A	16	16	25	25	32	16	32	16
	Diameter	Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	50	50	55	55	100	100	100	100
	Max. Height	Out-In	m	30	30	30	30	30	30	30	30
	Guaranteed Operating Range [Outdoor]	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
		Heating	°C	-11 ~ +21	-11 ~ +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 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 SERIES
STANDARD INVERTER



Type		Inverter Heat Pump									
Indoor Unit		PCA-M35KA	PCA-M50KA	PCA-M60KA	PCA-M71KA	PCA-M100KA		PCA-M125KA		PCA-M140KA	
Outdoor Unit		SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA	PUZ-M100VKA	PUZ-M100YKA	PUZ-M125VKA	PUZ-M125YKA	PUZ-M140VKA	PUZ-M140YKA
Refrigerant		R32*1									
Power Supply		Outdoor power supply VA · VKA:230 / Single / 50, YKA:400 / Three / 50									
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	12.1	12.1	13.4
	Total Input	Min - Max	kW	0.8 - 3.9	1.5 - 5.6	1.6 - 6.3	2.2 - 8.1	4.0 - 10.6	4.0 - 10.6	5.7 - 13.0	5.7 - 14.1
		Rated	kW	0.90	1.51	1.64	1.97	2.94	2.94	4.01	5.36
	EER			4.00	3.30	3.70	3.60	3.23	3.01	3.01	2.50
	EEL Rank			-	-	-	-	-	-	-	-
	Design Load		kW	3.6	5.0	6.1	7.1	9.5	9.5	12.1	13.4
	Annual Electricity Consumption*2		kWh/a	198	291	333	381	552	552	-	-
	SEER			6.3	6.0	6.4	6.5	6.0	6.0	-	-
	Energy Efficiency Class			A++	A+	A++	A++	A+	A+	-	-
	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	13.5	15.0
Heating (Average Season)	Total Input	Min - Max	kW	1.0 - 5.0	1.5 - 7.2	1.6 - 8.0	2.0 - 10.2	2.8 - 12.5	2.8 - 12.5	4.1 - 15.0	4.2 - 15.8
		Rated	kW	1.02	1.61	1.75	2.21	3.28	3.28	3.95	4.28
	COP			4.00	3.71	4.00	3.61	3.41	3.41	3.41	3.50
	EEL Rank			-	-	-	-	-	-	-	-
	Design Load		kW	2.6	4.3	4.6	5.8	8.0	8.0	8.5	9.4
	Declared Capacity	at reference design temperature	kW	2.3 (-10°C)	3.8 (-7°C)	4.1 (-7°C)	5.2 (-7°C)	6.0 (-10°C)	6.0 (-10°C)	8.5 (-10°C)	8.5 (-10°C)
		at bivalent temperature	kW	2.3 (-7°C)	3.8 (-7°C)	4.1 (-7°C)	5.2 (-7°C)	7.0 (-7°C)	7.0 (-7°C)	8.5 (-10°C)	8.5 (-10°C)
		at operation limit temperature	kW	2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)	4.5 (-15°C)	6.0 (-15°C)	6.0 (-15°C)	7.0 (-15°C)
	Back Up Heating Capacity		kW	0.3	0.5	0.5	0.6	2.0	2.0	-	-
	Annual Electricity Consumption*2		kWh/a	909	1456	1555	1971	2719	2719	-	-
	SCOP			4.0	4.1	4.1	4.1	4.1	4.1	-	-
Operating Current (max)			A	8.8	13.9	15.2	15.2	20.7	12.2	27.3	12.3
Indoor Unit	Input	Rated	kW	0.04	0.05	0.06	0.06	0.09	0.09	0.11	0.11
		Operating Current (max)	A	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76
	Dimensions <Panel>	H × W × D	mm	230 - 960 - 680	230 - 960 - 680	230 - 1290 - 680	230 - 1290 - 680	230 - 1600 - 680	230 - 1600 - 680	230 - 1600 - 680	230 - 1600 - 680
	Weight <Panel>		kg	25	26	32	32	37	37	38	38
	Air Volume [Lo-Mi2-Mi1-Hi]		m³/min	10-11-12-14	10-11-13-15	15-16-17-19	16-17-18-20	22-24-26-28	22-24-26-28	23-25-27-29	23-25-27-29
	Sound Level (SPL) [Lo-Mi2-Mi1-Hi]		dB(A)	31-33-36-39	32-34-37-40	33-35-37-40	35-37-39-41	37-39-41-43	37-39-41-43	39-41-43-45	39-41-43-45
	Sound Level (PWL)		dB(A)	60	60	60	62	63	63	65	65
	Dimensions	H × W × D	mm	550 - 800 - 285	714 - 800 - 285	880 - 840 - 330	880 - 840 - 330	981 - 1050 - 330 (+40)	981 - 1050 - 330 (+40)	981 - 1050 - 330 (+40)	981 - 1050 - 330 (+40)
	Weight		kg	35	41	54	55	76	78	84	85
	Air Volume	Cooling	m³/min	34.3	45.8	50.1	50.1	79.0	79.0	86.0	86.0
Outdoor Unit	Sound Level (SPL)	Heating	m³/min	32.7	43.7	50.1	50.1	79.0	79.0	92.0	92.0
		Cooling	dB(A)	48	48	49	49	51	51	54	55
	Sound Level (PWL)	Heating	dB(A)	48	49	51	51	54	54	56	57
		Cooling	dB(A)	48	49	51	51	54	54	56	57
	Operating Current (max)		A	8.5	13.5	14.8	14.8	20.0	11.5	26.5	11.5
	Breaker Size		A	10	20	20	20	32	16	32	16
	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	20	30	30	30	50	65	65	65
	Max. Height	Out-In	m	12	30	30	30	30	30	30	30
	Guaranteed Operating Range [Outdoor]	Cooling*3	°C	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-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 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.


SERIES SELECTION

Power Inverter Series

Indoor Unit

R32

R410A






PCA-M35/50/60/71/100/125/140KA

Outdoor Unit

R410A


For Single



PUHZ-ZRP35/50 PUHZ-ZRP60/71 PUHZ-ZRP100/125/140





R410A

For Multi
(Twin/Triple/Quadruple)



PUHZ-ZRP100/125/140/200/250

Remote Controller




Optional Optional Optional Optional

Standard Inverter Series

Indoor Unit

R32

R410A






PCA-M35/50/60/71/100/125/140KA

Outdoor Unit

R410A



For Single



SUZ-KA35 SUZ-KA50/60/71 PUHZ-P100/125/140





R410A

For Multi
(Twin/Triple/Quadruple)



PUHZ-P100/125/140 PUHZ-P200/250

Remote Controller



Optional Optional Optional Optional

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

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin					For Triple			For Quadruple		
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUHZ-ZRP)		35x1	50x1	60x1	71x1	100x1	125x1	140x1	—	—	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	—	—	—	—	—	—	—	—	—	—	MSDD-50TR-E	MSDD-50WR-E	MSDD-50WR-E	MSDD-50WR-E	MSDD-50WR-E	MSDD-50WR-E	MSDD-50WR-E	MSDD-50WR-E	MSDD-50WR-E	MSDD-50WR-E
Standard Inverter (PUHZ-P&SUZ)		35x1	50x1	60x1	71x1	100x1	125x1	140x1	—	—	—	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	—	—	—	—	—	—	—	—	—	—	MSDD-50TR-E	MSDD-50WR-E	MSDD-50WR-E	MSDD-50WR-E	MSDD-50WR-E	MSDD-50WR-E	MSDD-50WR-E	MSDD-50WR-E	MSDD-50WR-E	MSDD-50WR-E

SERIES SELECTION

Power Inverter Series

Indoor Unit

R410A



PCA-RP71HAQ

Outdoor Unit

R410A

For Single



PUHZ-ZRP71

R410A

For Multi
(Twin/Triple)



PUHZ-ZRP140/250

Remote Controller



Optional Optional Optional

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

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single								For Twin						For Triple		For Quadruple			
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUHZ-ZRP)		—	—	—	71x1	—	—	—	—	—	—	—	—	71x2	—	—	—	—	71x3	—	—
	Distribution Pipe	—	—	—	—	—	—	—	—	—	—	—	—	MSDD-50TR-E	—	—	—	—	MSDD-111TR-E	—	—

PCA-M KA SERIES
POWER INVERTER



Type			Inverter Heat Pump											
Indoor Unit			PCA-M35KA	PCA-M50KA	PCA-M60KA	PCA-M71KA	PCA-M100KA		PCA-M125KA		PCA-M140KA			
Outdoor Unit			PUHZ-ZRP35VKA2	PUHZ-ZRP50VKA2	PUHZ-ZRP60VHA2	PUHZ-ZRP71VHA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA3	PUHZ-ZRP125VKA3	PUHZ-ZRP125YKA3	PUHZ-ZRP140VKA3	PUHZ-ZRP140YKA3		
Refrigerant			R410A*1											
Power Supply			Outdoor power supply VKA ~ VHA: 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 ~ 6.7	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	—	—	—	—	—
Heating (Average Season)	Energy Efficiency Class			A++	A++	A++	A++	A++	A+	—	—	—	—	—
	Capacity		Rated	kW	4.1	5.5	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
			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
	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 Capacity		kW	0	0	0	0	0	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+	A+	A+	A	A	—	—	—	—	—	
Operating Current (max)			A	13.3	13.4	19.4	19.4	27.2	8.7	27.3	10.3	28.9	13.9	
Indoor Unit	Input		Rated	kW	0.04	0.05	0.06	0.06	0.09	0.09	0.11	0.11	0.14	0.14
	Operating Current (max)		A	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76	0.90	0.90	
Dimensions <Panel> H x W x D			mm	230 - 960 - 680			230 - 1280 - 680			230 - 1600 - 680				
Weight <Panel>			kg	25	26	32	32	37	37	38	38	40	40	
Air Volume [Lo-Mi2-Mi1-Hi]			m³/min	10-11-12-14	10-11-13-15	15-16-17-19	16-17-18-20	22-24-26-28	22-24-26-28	23-25-27-29	23-25-27-29	24-26-29-32	24-26-29-32	
Sound Level (SPL) [Lo-Mi2-Mi1-Hi]			dB(A)	31-33-36-39	32-34-37-40	33-35-37-40	35-37-39-41	37-39-41-43	37-39-41-43	39-41-43-45	39-41-43-45	41-43-45-48	41-43-45-48	
Sound Level (PWL)			dB(A)	60	60	60	62	63	63	65	65	68	68	
Outdoor Unit	Dimensions		H x W x D	mm	630 - 809 - 300			943 - 950 - 330 (+30)			1338 - 1050 - 330 (+40)			
	Weight		kg	43	46	70	70	116	123	116	125	118	131	
	Air Volume		Cooling	m³/min	45	45	55	55	110	110	120	120	120	120
			Heating	m³/min	45	45	55	55	110	110	120	120	120	120
	Sound Level (SPL)		Cooling	dB(A)	44	44	47	47	49	49	50	50	50	50
			Heating	dB(A)	46	46	48	48	51	51	52	52	52	52
	Sound Level (PWL)		Cooling	dB(A)	65	65	67	67	69	69	70	70	70	70
			Heating	dB(A)	67	67	69	69	71	71	72	72	72	72
	Operating Current (max)		A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.5	28.0	13.0	13.0
	Breaker Size		A	16	16	25	25	32	16	32	16	40	16	16
Ext. Piping	Diameter		Liquid / Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max. Length		Out-In	m	50	50	50	50	75	75	75	75	75	75
	Max. Height		Out-In	m	30	30	30	30	30	30	30	30	30	30
			Out-In	m	30	30	30	30	30	30	30	30	30	30
Guaranteed Operating Range [Outdoor]			Cooling*3	°C	–15 ~ +46	–15 ~ +46	–15 ~ +46	–15 ~ +46	–15 ~ +46	–15 ~ +46	–15 ~ +46	–15 ~ +46	–15 ~ +46	–15 ~ +46
			Heating	°C	–11 ~ +21	–11 ~ +21	–20 ~ +21	–20 ~ +21	–20 ~ +21	–20 ~ +21	–20 ~ +21	–20 ~ +21	–20 ~ +21	–20 ~ +21

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

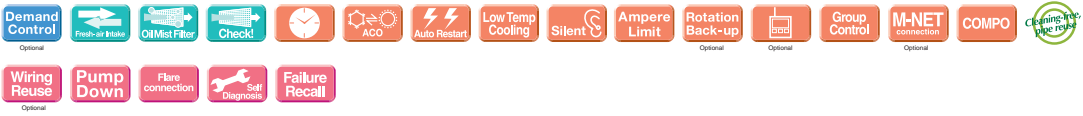
PCA-M KA SERIES
STANDARD INVERTER



Type			Inverter Heat Pump											
Indoor Unit			PCA-M35KA	PCA-M50KA	PCA-M60KA	PCA-M71KA	PCA-M100KA		PCA-M125KA		PCA-M140KA			
Outdoor Unit			SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6	SUZ-KA71VA6	PUHZ-P100VKA	PUHZ-P100YKA	PUHZ-P125VKA	PUHZ-P125YKA	PUHZ-P140VKA	PUHZ-P140YKA		
Refrigerant			R410A*1											
Power Supply	Source	Outdoor power supply												
Supply	Outdoor (V/Phase/Hz)	VA · VKA:230 / Single / 50, YKA:400 / Three / 50												
Cooling	Capacity	Rated	kW	3.6	5.0	5.7	7.1	9.4	9.4	12.1	12.1	13.6	13.6	
		Min - Max	kW	1.4 ~ 3.9	2.3 ~ 5.6	2.3 ~ 6.3	2.8 ~ 8.1	3.7 ~ 10.6	3.7 ~ 10.6	5.6 ~ 13.0	5.6 ~ 13.0	5.8 ~ 14.1	5.8 ~ 14.1	
	Total Input	Rated	kW	1.050	1.550	1.720	2.060	3.05	3.05	4.24	4.24	5.62	5.62	
	EER			3.43	3.23	3.31	3.45	3.08	3.08	2.85	2.85	2.41	2.41	
		EEL Rank		—	—	—	—	—	—	—	—	—	—	
	Design Load	kW	3.6	5.0	5.7	7.1	9.4	9.4	—	—	—	—	—	
	Annual Electricity Consumption*2	kWh/a	209	296	325	409	586	586	—	—	—	—	—	
	SEER		6.0	5.8	6.1	6.0	5.6	5.6	—	—	—	—	—	
		Energy Efficiency Class		A+	A+	A++	A+	A+	—	—	—	—	—	
	Heating (Average Season)	Capacity	Rated	kW	4.1	5.5	6.9	7.9	11.2	11.2	13.5	13.5	15.0	15.0
		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	
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	3.32	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 Capacity		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+	—	—	—	—		
Operating Current (max)		A	8.5	12.4	14.4	16.5	20.7	12.2	27.3	12.3	30.9	12.4		
Indoor Unit	Input	Rated	kW	0.04	0.05	0.06	0.06	0.09	0.09	0.11	0.11	0.14	0.14	
	Operating Current (max)	A	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76	0.90	0.90		
	Dimensions <Panel>	H × W × D	mm	230-960-680			230-1280-680			230-1600-680				
	Weight <Panel>	kg	25	26	32	32	37	37	38	38	40	40		
	Air Volume [Lo-Mi2-Mi1-Hi]	m³/min	10-11-12-14	10-11-13-15	15-16-17-19	16-17-18-20	22-24-26-28	22-24-26-28	23-25-27-29	23-25-27-29	24-26-29-32	24-26-29-32		
	Sound Level (SPL) [Lo-Mi2-Mi1-Hi]	dB(A)	31-33-36-39	32-34-37-40	33-35-37-40	35-37-39-41	37-39-41-43	37-39-41-43	39-41-43-45	39-41-43-45	41-43-45-48	41-43-45-48		
	Sound Level (PWL)	dB(A)	60	60	60	62	63	63	65	65	68	68		
	Dimensions	H × W × D	mm	560-800-285			880-840-330			981-1050-330				
	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	
Outdoor Unit		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	57	57		
	Sound Level (PWL)	Cooling	dB(A)	62	65	65	70	72	72	75	75	77		
	Operating Current (max)	A	8.2	12.0	14.0	16.1	20.0	11.5	26.5	11.5	30.0	11.5		
	Breaker Size	A	10	20	20	20	32	16	32	16	40	16		
	Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 9.52		6.35 / 12.7		6.35 / 15.88		6.35 / 15.88		6.35 / 15.88	
		Max. Length	Out-In	m	20		30		30		50		50	
		Max. Height	Out-In	m	12		30		30		50		50	
			Out-In	m	12		30		30		50		50	
Guaranteed Operating Range [Outdoor]	Cooling*2,3	°C	–10 ~ +46		–15 ~ +46		–15 ~ +46		–15 ~ +46		–15 ~ +46		–15 ~ +46	
	Heating	°C	–10 ~ +24		–10 ~ +24		–10 ~ +24		–15 ~ +21		–15 ~ +21		–15 ~ +21	

PCA-RP HA SERIES
POWER INVERTER

EUROVENT
CERTIFIED
PERFORMANCE



Type			Inverter Heat Pump	
Indoor Unit			PCA-RP71HAQ	
Outdoor Unit			PUHZ-ZRP71VHA2	
Refrigerant			R410A*1	
Power Supply	Source		Outdoor power supply	
	Outdoor (V/Phase/Hz)		230 / Single / 50	
Cooling	Capacity	Rated	kW	7.1
		Min - Max	kW	3.3 - 8.1
	Total Input	Rated	kW	2.17
	EER			-
		EEL Rank		-
	Design Load		kW	7.1
	Annual Electricity Consumption*2		kWh/a	447
	SEER			5.6
		Energy Efficiency Class		A+
				7.6
Heating (Average Season)	Capacity	Rated	kW	3.3 - 8.1
		Min - Max	kW	2.35
	Total Input	Rated	kW	-
	COP			-
		EEL Rank		-
	Design Load		kW	4.7
	Declared Capacity	at reference design temperature	kW	4.7 (-10°C)
		at bivalent temperature	kW	4.7 (-10°C)
		at operation limit temperature	kW	3.5 (-20°C)
	Back Up Heating Capacity		kW	0
Operating Current (max)	Annual Electricity Consumption*2		kWh/a	1751
	SCOP			3.8
		Energy Efficiency Class		A
			A	19.4
Indoor Unit	Input	Rated	kW	0.09
	Operating Current (max)		A	0.43
	Dimensions <Panel>	H x W x D	mm	280 - 1136 - 650
	Weight <Panel>		kg	41
	Air Volume [Lo-Hi]		m³/min	17 - 19
	Sound Level (SPL) [Lo-Hi]		dB(A)	34 - 38
	Sound Level (PWL)		dB(A)	56
Outdoor Unit	Dimensions	H x W x D	mm	943 - 950 - 330 (+30)
	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
Ext. Piping	Diameter	Liquid / Gas	mm	9.52 / 15.88
	Max. Length	Out-In	m	50
	Max. Height	Out-In	m	30
	Guaranteed Operating Range [Outdoor]	Cooling*3	°C	-15 ~ +46
		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.

PSA SERIES R410A

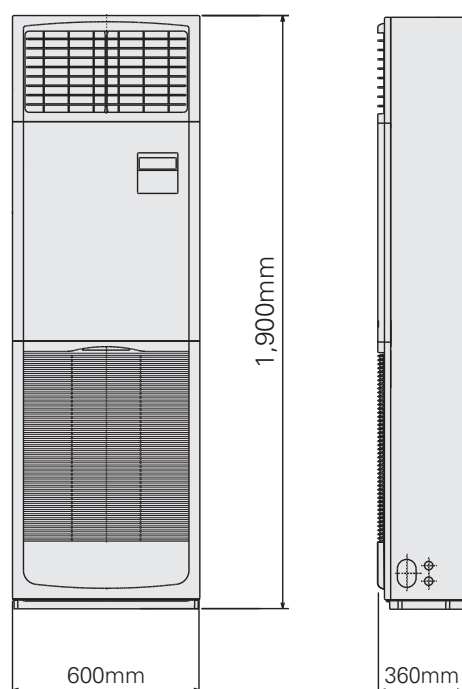
Installation of this floor-standing series is easy and quick.
An excellent choice when there is a sudden need for an air conditioner to be installed.



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

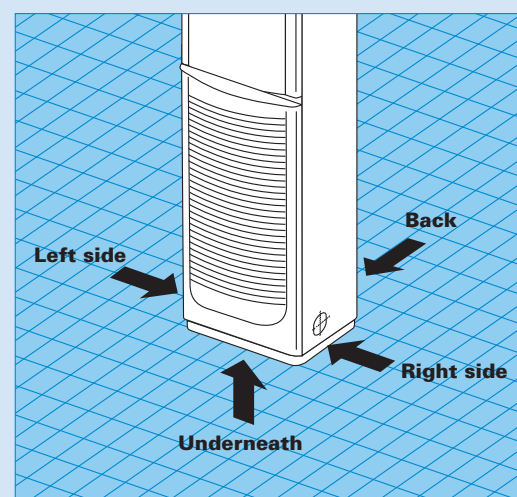
The floor-standing indoor unit is mounted on the floor, enabling quick installation. Its compact body requires only minimal space.

● PSA-RP71KA



4-way pipe work connections enable greater freedom in installation

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



Built-in Remote Controller

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



SERIES SELECTION

 71

 100-250

 71-140

 71

Outdoor Unit

R410A



PUHZ-ZRP100/125/140



PUHZ-ZRP140/200/250

Built-in

DC Inverter

Vector Sine Waves

100-140
DC Blower

200-250
DC Sprocket

DC Fan Motor

100-140
Vector-Sine

PAM

Forward Blower

Outdoor Unit

R410A

PUHZ-P100/125/140



PUHZ-P140

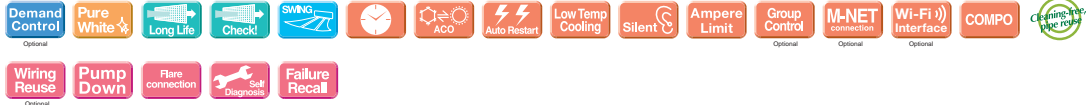
PUHZ-P200/250

Built-in

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

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUHZ-ZRP)		—	—	—	71x1	100x1	125x1	140x1	—	—	—	—	71x2	100x2	125x2	—	—	71x3	—	—	
	Distribution Pipe	—	—	—	—	—	—	—	—	—	—	—	MSDD-50TR-E	MSDD-50WR-E	—	—	MSDT-111R-E	—	—		
Standard Inverter (PUHZ-P)		—	—	—	—	100x1	125x1	140x1	—	—	—	—	71x2	100x2	125x2	—	—	71x3	—	—	
	Distribution Pipe	—	—	—	—	—	—	—	—	—	—	—	MSDD-50TR-E	MSDD-50WR-E	—	—	MSDT-111R-E	—	—		

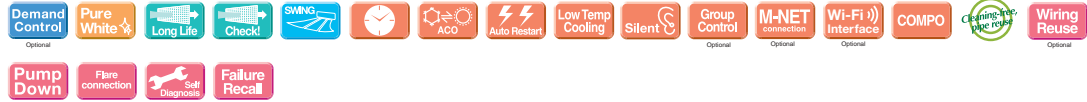
PSA-RP SERIES
POWER INVERTER



Type			Inverter Heat Pump							
Indoor Unit			PSA-RP71KA		PSA-RP100KA		PSA-RP125KA		PSA-RP140KA	
Outdoor Unit			PUHZ-ZRP71VHA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA3	PUHZ-ZRP125VKA3	PUHZ-ZRP125YKA3	PUHZ-ZRP140VKA3	PUHZ-ZRP140YKA3	
Refrigerant			R410A*1							
Power Supply	Source		Outdoor power supply							
Supply	Outdoor (V/Phase/Hz)		VKA ~ VHA:230 / Single / 50, YKA:400 / Three / 50							
Cooling	Capacity	Rated	kW	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min - Max	kW	3.3 ~ 8.1	4.9 ~ 11.4	4.9 ~ 11.4	5.5 ~ 14.0	5.5 ~ 14.0	6.2 ~ 15.0	6.2 ~ 15.0
	Total Input	Rated	kW	1.89	2.50	2.50	4.09	4.09	4.06	4.06
	EER			-	-	-	3.06	3.06	3.30	3.30
		EEL Rank		-	-	-	-	-	-	-
	Design Load		kW	7.1	9.5	9.5	-	-	-	-
	Annual Electricity Consumption*2		kWh/a	396	595	606	-	-	-	-
	SEER			6.3	5.6	5.5	-	-	-	-
		Energy Efficiency Class		A++	A+	A	-	-	-	-
			kW	7.6	11.2	11.2	14.0	14.0	16.0	16.0
Heating (Average Season)	Capacity	Rated	kW	3.5 ~ 10.2	4.5 ~ 14.0	4.5 ~ 14.0	5.0 ~ 16.0	5.0 ~ 16.0	5.7 ~ 18.0	5.7 ~ 18.0
		Min - Max	kW	2.21	3.08	3.08	4.24	4.24	4.79	4.79
	Total Input	Rated	kW	2.21	3.08	3.08	4.24	4.24	4.79	4.79
	COP			-	-	-	3.30	3.30	3.34	3.34
		EEL Rank		-	-	-	-	-	-	-
			kW	4.7	7.8	7.8	-	-	-	-
	Design Load		kW	4.7	7.8	7.8	-	-	-	-
	Declared Capacity	at reference design temperature	kW	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	-	-	-	-
		at bivalent temperature	kW	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	-	-	-	-
		at operation limit temperature	kW	3.5 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	-	-	-	-
Back Up Heating	Capacity		kW	0	0	0	-	-	-	-
	Annual Electricity Consumption*2		kWh/a	1666	2761	2761	-	-	-	-
	SCOP			4.0	4.0	4.0	-	-	-	-
		Energy Efficiency Class		A+	A+	A+	-	-	-	-
	Operating Current (max)		A	19.4	27.2	8.7	27.2	10.2	28.7	13.7
	Indoor Unit	Input	Rated	kW	0.06	0.11	0.11	0.11	0.11	0.11
		Operating Current (max)		A	0.4	0.71	0.71	0.73	0.73	0.73
	Dimensions <Panel>	H x W x D	mm	1900 - 600 - 360						
	Weight <Panel>		kg	46	46	46	46	46	48	48
	Air Volume	[Lo-Mid-Hi]	m³/min	20 - 22 - 24	25 - 28 - 30	25 - 28 - 30	25 - 28 - 31	25 - 28 - 31	25 - 28 - 31	25 - 28 - 31
Sound Level (SPL)	[Lo-Mid-Hi]	dB(A)	40 - 42 - 44	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	45 - 49 - 51	
Sound Level (PWL)		dB(A)	60	65	65	66	66	66	66	
Outdoor Unit	Dimensions	H x W x D	mm	943-950-330(+30)		1338-1050-330(+40)				
	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)	Cooling	dB(A)	67	69	69	70	70	70	70
	Operating Current (max)		A	19.0	26.5	8.0	26.5	9.5	28.0	13.0
	Breaker Size		A	25	32	16	32	16	40	16
	Ext. Piping	Diameter	Liquid / Gas	mm	9.52 / 15.88		9.52 / 15.88		9.52 / 15.88	
Max. Length		Out-In	m	50		75		75		75
Max. Height		Out-In	m	30		30		30		30
Guaranteed Operating Range [Outdoor]			Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
			Heating	°C	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21

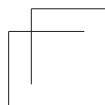
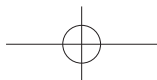
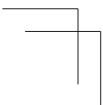
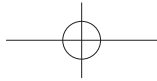
*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if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

PSA-RP SERIES
STANDARD INVERTER



Type				Inverter Heat Pump							
Indoor Unit				PSA-RP100KA		PSA-RP125KA		PSA-RP140KA			
Outdoor Unit				PUHZ-P100VKA	PUHZ-P100YKA	PUHZ-P125VKA	PUHZ-P125YKA	PUHZ-P140VKA	PUHZ-P140YKA		
Refrigerant				R410A*1							
Power Supply				Outdoor power supply VKA:230 / Single / 50, YKA:400 / Three / 50							
Cooling	Source Outdoor (V/Phase/Hz)										
	Capacity	Rated	kW	9.4	9.4	12.1	12.1	13.6	13.6		
	Total Input	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		
	EER	Rated	kW	3.12	3.12	5.02	5.02	6.38	6.38		
	EEL Rank			3.01	3.01	2.41	2.41	2.13	2.13		
	Design Load		kW	9.4	9.4	—	—	—	—		
	Annual Electricity Consumption*2		kWh/a	644	644	—	—	—	—		
	SEER			5.1	5.1	—	—	—	—		
	Energy Efficiency Class			A	A	—	—	—	—		
	Heating (Average Season)	Capacity	Rated	kW	11.2	11.2	13.5	13.5	15.0	15.0	
Total Input		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		
COP		Rated	kW	3.28	3.28	4.80	4.80	4.82	4.82		
EEL Rank				3.41	3.41	2.81	2.81	3.11	3.11		
Design Load			kW	8.0	8.0	—	—	—	—		
Declared Capacity		at reference design temperature	kW	6.0 (-10°C)	6.0 (-10°C)	—	—	—	—		
		at bivalent temperature	kW	7.0 (-7°C)	7.0 (-7°C)	—	—	—	—		
		at operation limit temperature	kW	4.5 (-15°C)	4.5 (-15°C)	—	—	—	—		
Back Up Heating Capacity			kW	2.0	2.0	—	—	—	—		
Annual Electricity Consumption*2			kWh/a	2794	2794	—	—	—	—		
SCOP			4.0	4.0	—	—	—	—			
Energy Efficiency Class			A+	A+	—	—	—	—			
Operating Current (max)			A	20.7	12.2	27.2	12.2	30.7	12.2		
Indoor Unit	Input	Rated	kW	0.11	0.11	0.11	0.11	0.11	0.11		
	Operating Current (max)		A	0.71	0.71	0.73	0.73	0.73	0.73		
	Dimensions <Panel>	H × W × D	mm	1900 - 600 - 360							
	Weight <Panel>		kg	46	46	46	46	48	48		
	Air Volume	[Lo-Mid-Hi]	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 Unit	Dimensions	H × W × D	mm	981 - 1050 - 330		981 - 1050 - 330		981 - 1050 - 330		
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)		Cooling	dB(A)	70	70	72	72	75	75		
Operating Current (max)			A	20.0	11.5	26.5	11.5	30.0	11.5		
Breaker Size			A	32	16	32	16	40	16		
Ext. 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	9.52 / 15.88	
	Max. Length	Out-In	m	50	50	50	50	50	50		
	Max. Height	Out-In	m	30	30	30	30	30	30		
Guaranteed Operating Range [Outdoor]			Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	
			Heating	°C	-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.






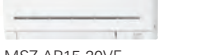






MULTI SPLIT



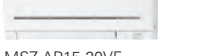




SERIES



SELECTION

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

R32 INDOOR UNITS		R32 OUTDOOR UNITS	
Wall-mounted  MSZ-LN (18-25-35)  MSZ-EF  MSZ-AP25-50VG  MSZ-AP15-20VF	Ceiling-suspended  PCA Ceiling-concealed  SEZ  PEAD	2-port up to 2 indoor units  MXZ-2F33VF MXZ-2F42VF MXZ-2F53VF(H)	3-port up to 3 indoor units  MXZ-3F54VF MXZ-3F68VF
		4-port up to 4 indoor units  MXZ-4F72VF	

R410A INDOOR UNITS		R410A OUTDOOR UNITS		
Wall-mounted  MSZ-LN (25-35)  MSZ-FH  MSZ-EF  MSZ-AP25-50VG  MSZ-AP15-20VF  MSZ-SF25-50VE  MSZ-SF15-20VA  MSZ-GF	Floor-standing  MFZ-KJ Ceiling-suspended  PCA Ceiling-concealed  SEZ  PEAD	2-port up to 2 indoor units  MXZ-2D33VA MXZ-2D42VA2 MXZ-2D53VA(H)2 MXZ-2E53VAHZ	3-port up to 3 indoor units  MXZ-3E54VA MXZ-3E68VA	4-port up to 4 indoor units  MXZ-4E72VA  MXZ-4E83VA MXZ-4E83VAHZ
		5-port up to 5 indoor units  MXZ-5E102VA	6-port up to 6 indoor units  MXZ-6D122VA2	

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

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.



R32

2-port

MXZ-2F33VF
MXZ-2F42VF
MXZ-2F53VF(H)



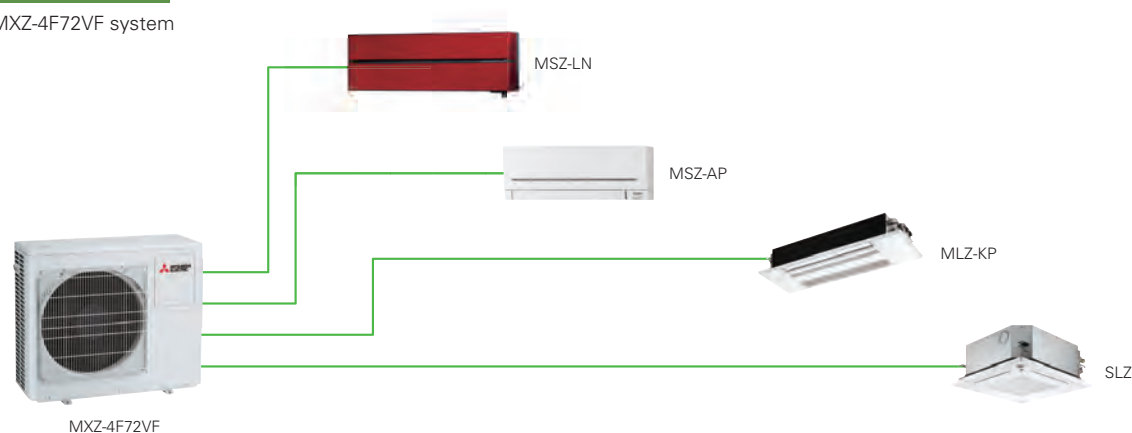
R32

3-port 4-port

MXZ-3F54VF
MXZ-3F68VF
MXZ-4F72VF

EXAMPLE SYSTEM

MXZ-4F72VF system



Handle Up to 4 Rooms with a Single Outdoor Unit

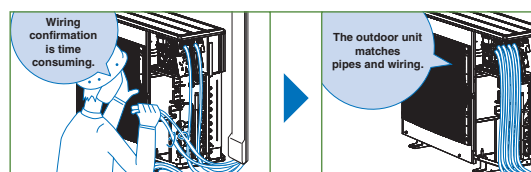
The MXZ Series for R32 offers a six-system line-up to choose from, ranging between 3.3 and 7.2kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

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.)

MXZ SERIES
INVERTER MULTI



Type (Inverter Multi - Split Heat Pump)				Up to 2 Indoor Units				Up to 3 Indoor Units		Up to 4 Indoor Units
Indoor Unit				Please refer to *4						
Outdoor Unit				MXZ-2F33VF	MXZ-2F42VF	MXZ-2F53VF	MXZ-2F53VFH	MXZ-3F54VF	MXZ-3F68VF	MXZ-4F72VF
Refrigerant				R32*1						
Power Supply	Source			Outdoor power 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			3.88	4.29	3.79	3.79	4.09	3.70	3.89
	Design Load		kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2
	Annual Electricity Consumption*2		kWh/a	188	169	215	215	222	299	310
	SEER*4			6.13	8.69	8.63	8.63	8.52	7.96	8.13
		Energy Efficiency Class*4		A++	A+++	A+++	A+++	A+++	A++	A++
Heating (Average Season)	Capacity	Rated	kW	4.0	4.5	6.4	6.4	7.0	8.6	8.6
	Input	Rated	kW	0.91	0.88	1.56	1.56	1.40	1.91	1.87
	COP*4			4.40	5.11	4.10	4.10	5.00	4.50	4.60
	Design Load		kW	2.7	3.2	3.2	3.2	5.0	6.8	7.0
	Declared Capacity	at reference design temperature	kW	2.2	2.7	2.7	2.7	4.0	5.5	5.6
		at bivalent temperature	kW	2.4	2.9	2.9	2.9	4.5	6.1	6.2
		at operation 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 Electricity 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		A+	A++	A++	A+	A++	A+	A+
Operating Current (max)			A	10.0	12.2	12.2	12.2	18.0	18.0	18.0
Outdoor Unit	Dimensions	H x W x D	mm	550 - 800 (+69) - 285 (+59.5)				710 - 840 (+30) - 330 (+66)		
	Weight		kg	33	37	37	38	57	57	58
	Air Volume	Cooling	m³/min	31.5	28.4	32.7	32.7	31.0	35.4	35.4
		Heating	m³/min	32.3	33.5	34.7	34.7	27.2	39.6	42.7
	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
		Heating	dB(A)	60	59	61	61	60	63	63
	Operating Current	Cooling	A	4.1	4.7	6.2	6.2	5.7	8.0	8.1
		Heating	A	4.4	4.3	7.1	7.1	6.1	8.4	8.2
Breaker Size			A	15	15	15	15	25	25	25
Ext. Piping	Port Diameter	Liquid / Gas	mm	6.35 x 2 / 9.52 x 2	6.35 x 2 / 9.52 x 2	6.35 x 2 / 9.52 x 2	6.35 x 2 / 9.52 x 2	6.35 x 3 / 9.52 x 3	6.35 x 3 / 9.52 x 3	6.35 x 4 / 12.7 x 1 + 9.52 x 3
	Total Piping Length (max)		m	20	30	30	30	50	60	60
	Each Indoor Unit Piping 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"		
Guaranteed Operating Range [Outdoor]		Cooling	°C	-10 ~ +46						
		Heating	°C	-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 disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.

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

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

*4 EER/COP, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
MXZ-2F33VF MSZ-AP15VF + MSZ-LN18VG
MXZ-2F42VF MSZ-LN18VG + MSZ-LN25VG
MXZ-2F53VF(H) MSZ-LN18VG + MSZ-LN35VG
MXZ-3F54VF MSZ-LN18VG + MSZ-LN18VG + MSZ-LN18VG
MXZ-3F68VF MSZ-LN18VG + MSZ-LN25VG + MSZ-LN25VG
MXZ-4F72VF MSZ-LN18VG + MSZ-LN18VG + MSZ-LN18VG + MSZ-LN18VG

Method of Charging refrigerant

■MXZ-3/4F				
Total refrigerant #3	=	Pre charge	+	Indoor unit number #1
----- kg		1.4 kg		----- kg
				Connection of specific I/U #2
				----- kg
				Piping length
				0.0 kg
■MXZ-2F42/53				
Total refrigerant	=	Pre charge		Piping length
1.2 kg		1.2 kg		0.0 kg
■MXZ-2F33				
Total refrigerant	=	Pre charge		Piping length
1.0 kg		1.0 kg		0.0 kg

*1 If you connect indoor unit number 3 or 4 units, please add to charge refrigerant amount 0.5kg
*2 If you connect specific indoor unit(s), please add to charge refrigerant amount 0.17kg per 1 unit
Specific indoor unit is following: MSZ-LN18/25/35VG MLZ-KP25/35/50VA
SEZ-M50A(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

4-port 5-port

MXZ-4E83VA
MXZ-5E102VA



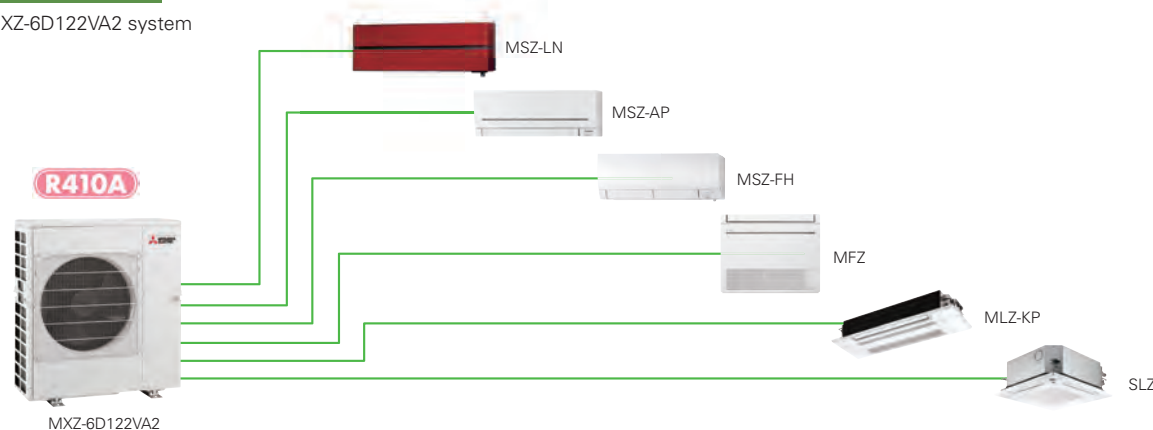
R410A

6-port

MXZ-6D122VA2

EXAMPLE SYSTEM

MXZ-6D122VA2 system



Handle Up to 6 Rooms with a Single Outdoor Unit

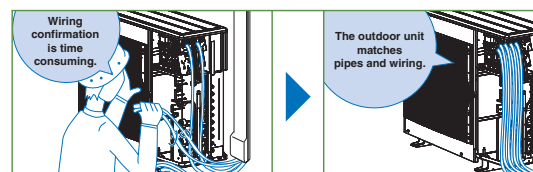
The MXZ Series offers a nine-system line-up to choose from, ranging between 3.3 and 12.2kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

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.)

MXZ SERIES
INVERTER MULTI



Type (Inverter Multi - Split Heat Pump)			Up to 2 Indoor Units				Up to 3 Indoor Units		Up to 4 Indoor Units		Up to 5 Indoor Units	
Indoor Unit			Please refer to (*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	
Refrigerant			R410A*1									
Power Supply	Source	Outdoor power supply										
	Outdoor (V/Phase/Hz)	220 - 230 - 240V / Single / 50										
Cooling	Capacity	Rated	kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2	8.3	10.2
		Min - Max	kW	1.1 - 3.8	1.1 - 4.4	1.1 - 5.6	1.1 - 5.6	2.9 - 6.8	2.9 - 8.4	3.7 - 8.8	3.7 - 9.2	3.9 - 11.0
	Input (Indoor+Outdoor)	Rated	kW	0.90	1.00	1.54	1.54	1.35	2.19	2.25	2.44	3.15
	Design Load		kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2	8.3	10.2
	Annual Electricity 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 Efficiency Class*4		A	A++	A++	A++	A++	A+	A+	A++	A++
Heating (Average Season)	Capacity	Rated	kW	4.0	4.5	6.4	6.4	7.0	8.6	8.6	9.3	10.5
		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
	Input (Indoor+Outdoor)	Rated	kW	0.96	0.93	1.70	1.70	1.59	2.38	2.28	2.00	2.34
	Design Load		kW	2.7	3.2	4.5	4.5	5.0	6.8	7.0	8.7	8.9
	Declared Capacity	at reference design temperature	kW	2.1	2.7	3.7	3.6	4.0	5.4	5.6	7.1	7.3
		at bivalent temperature	kW	2.4	3.0	4.0	4.0	4.49	6.0	6.2	7.8	7.9
		at operation limit temperature	kW	1.7	2.3	3.3	3.0	3.17	4.4	4.7	6.0	6.3
	Back Up Heating Capacity		kW	0.6	0.5	0.8	0.9	1.0	1.4	1.4	1.6	1.6
	Annual Electricity 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 Efficiency Class*4		A+	A+	A+	A+	A+	A	A	A+	A+
Max. Operating Current (Indoor+Outdoor)			A	10.0	12.2	12.2	12.2	18.0	18.0	18.0	21.4	21.4
Outdoor Unit	Dimensions	H x W x D	mm	550 - 800(+69) - 285(+59.5)				710 - 840(+30) - 330(+66)			796 - 950 - 330	
	Weight		kg	32	37	37	38	58	58	59	63	64
	Air Volume	Cooling	m³/min	32.9	27.7	32.9	32.9	42.1	42.1	42.1	55.6	65.1
		Heating	m³/min	33.7	33.3	33.3	33.3	43.0	43.0	43.0	55.6	68.0
	Sound Level (SPL)	Cooling	dB(A)	49	46	50	50	50	50	50	49	52
		Heating	dB(A)	50	51	53	53	53	53	53	51	56
	Sound Level (PWL)	Cooling	dB(A)	63	60	64	64	64	64	64	61	65
	Breaker Size		A	10	15	15	15	25	25	25	25	25
Ext. Piping	Diameter	Liquid	mm	6.35 x 2	6.35 x 2	6.35 x 2	6.35 x 2	6.35 x 3	6.35 x 3	6.35 x 4	6.35 x 4	6.35 x 5
		Gas	mm	9.52 x 2	9.52 x 2	9.52 x 2	9.52 x 2	9.52 x 3	9.52 x 3	12.7x1+9.52x3	12.7x1+9.52x3	12.7x1+9.52x4
	Total Piping Length (max)		m	20	30	30	30	50	60	60	70	80
	Each Indoor Unit Piping Length (max)		m	15	20	20	20	25	25	25	25	25
	Max. Height		m	10	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3
Chargeless Length		m	20	20	20	20	40	40	40	25	0	
Guaranteed Operating Range [Outdoor]			Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
			Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

N: Please refer to the NOTE below.

Type (Inverter Multi - Split Heat Pump)				Up to 6 Indoor Units	
Indoor Unit				Please refer to (*5)	
Outdoor Unit				MXZ-6D122VA2	
Refrigerant				R410A*1	
Power Supply	Source			Outdoor power supply	
	Outdoor (V/Phase/Hz)			220 - 230 - 240V / Single / 50	
Cooling	Capacity	Rated	kW	12.2	
		Min - Max	kW	3.5 - 13.5	
	Input*5	Rated	kW	3.66	
		EER*6		3.33	
	EEL Rank		A		
Heating	Capacity	Rated	kW	14.0	
		Min - Max	kW	3.5 - 16.5	
	Input*5	Rated	kW	3.31	
		COP*6		4.23	
	EEL Rank		A		
Operating Current (max)*5			A	26.8	
Outdoor Unit	Dimensions	H x W x D	mm	1048-950-330	
	Weight		kg	88	
	Air Volume	Cooling	m ³ /min	63.0	
		Heating	m ³ /min	77.0	
	Sound Level (SPL)	Cooling	dB(A)	55	
		Heating	dB(A)	57	
	Sound Level (PWL)	Cooling	dB(A)	70	
	Breaker Size		A	32	
Ext. Piping	Diameter	Liquid	mm	6.35×6	
		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	
Guaranteed Operating Range [Outdoor]			Cooling	°C	-10 ~ +46
			Heating	°C	-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 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 If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10m.

*4 EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
MXZ-2D33VA → MSZ-SF18VA + MSZ-EF18VE
MXZ-2D42VA2 → MSZ-EF18VE + MSZ-EF25VE
MXZ-2D53VA(H)2 → MSZ-EF18VE + MSZ-EF35VE
MXZ-3E54VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE
MXZ-3E68VA → MSZ-EF18VE + MSZ-EF25VE + MSZ-EF25VE
MXZ-4E72VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE
MXZ-4E83VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF25VE
MXZ-5E102VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF22VE + MSZ-EF22VE

*5 Power input and operating current (max) figures are for outdoor unit only

*6 EER/COP, EEL rank, values and energy efficiency class are measured when connected to the indoor units listed below.
MXZ-6D122VA2 → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE + MSZ-EF25VE + MSZ-EF25VE

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

MXZ-2D33VA		
No. of MFZ-KJ indoor units	Pipe length (L)	Maximum amount of refrigerant
	~20m	
1 unit	100g additional (Total 1250g)	1250g
2 units	Not available (Only one MFZ-KJ series indoor unit can be connected.)	

MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2			
No. of MFZ-KJ indoor units	Pipe length (L)		Maximum amount of refrigerant
	~20m	~30m	
1 unit	100g additional (Total 1400g)	100g+{(L-20)m×20g/m)}	1600g
2 units	200g additional (Total 1500g)	200g+{(L-40)m×20g/m)}	1700g

MXZ-3E54VA			
No. of MFZ-KJ indoor units	Pipe length (L)		Maximum amount of refrigerant
	~40m	~50m	
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 MFZ-KJ indoor units	Pipe length (L)		Maximum amount of refrigerant
	~40m	~60m	
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-HA SERIES

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



R32

2-port

MXZ-2HA40VF
MXZ-2HA50VF



R32

3-port

MXZ-3HA50VF

Stylish Design with Flat Panel Front

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



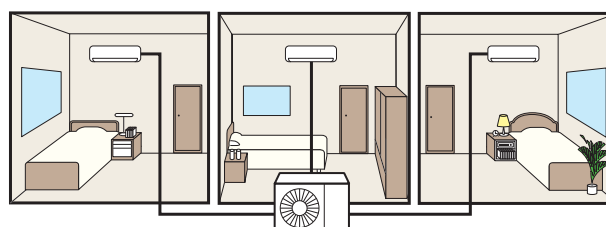
Easy to create various combinations

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

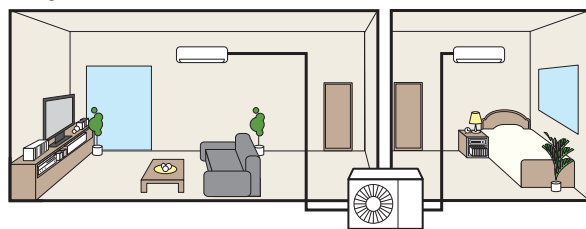
Two bedrooms



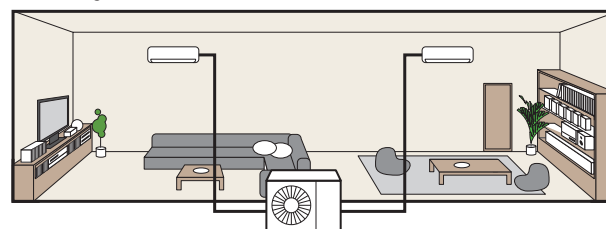
Three bedrooms



Living room and one bedroom



Wide living room



MXZ-HA SERIES
INVERTER MULTI



Type (Inverter Multi - Split Heat Pump)				Up to 2 Indoor Units		Up to 3 Indoor Units	
Indoor Unit				Please refer to (*4)			
Outdoor Unit				MXZ-2HA40VF		MXZ-3HA50VF	
Refrigerant				R32*1			
Power Supply				Outdoor power supply			
Source				220-230-240 / Single / 50			
Outdoor (V/Phase/Hz)							
Cooling	Capacity	Rated	kW	4.0		5.0	
	Input*4	Rated	kW	1.05		1.52	
	EER*4			3.81		3.29	
		EEL Rank*4		A		A	
	Design Load		kW	4.0		5.0	
	Annual Electricity Consumption*2		kWh/a	172		225	
	SEER*4			8.12		7.78	
		Energy Efficiency Class*4		A++		A++	
Heating (Average Season)	Capacity	Rated	kW	4.3		6.0	
	Input	Rated	kW	0.91		1.54	
	COP*4			4.73		3.90	
		EEL Rank*4		A		A	
	Design Load		kW	3.2		3.2	
	Declared Capacity	at reference design temperature	kW	2.4		2.4	
		at bivalent temperature	kW	2.9		2.9	
		at operation limit temperature	kW	2.1		2.1	
	Back Up Heating Capacity		kW	0.8		0.8	
	Annual Electricity Consumption*2		kWh/a	1043		1043	
	SCOP*4			4.30		4.30	
		Energy Efficiency Class*4		A+		A+	
Operating Current (max)			A	12.2		18.0	
Outdoor Unit	Dimensions	H x W x D	mm	550 - 800 (+69) - 285 (+59.5)		550 - 800 (+69) - 285 (+59.5)	
	Weight		kg	37		37	
	Air Volume	Cooling	m³/min	28.4		32.7	
		Heating	m³/min	33.5		34.7	
	Sound Level (SPL)	Cooling	dB(A)	44		47	
		Heating	dB(A)	50		51	
	Sound Level (PWL)	Cooling	dB(A)	59		64	
	Operating Current	Cooling	A	4.9		6.8	
		Heating	A	4.6		6.9	
	Breaker Size		A	15		15	
Ext. Piping	Port Diameter	Liquid / Gas	mm	6.35 x 2 / 9.52 x 2		6.35 x 2 / 9.52 x 2	
	Total Piping Length (max)		m	30		30	
	Each Indoor Unit Piping Length (max)		m	20		20	
	Max. Height		m	15 (10)*3		15 (10)*3	
	Chargeless Length		m	30		30	
	Guaranteed Operating Range			Cooling	-10 ~ +46		
[Outdoor]			Heating	-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 disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

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

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

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

MXZ-2HA40VF MSZ-HR25VF + MSZ-HR25VF

MXZ-2HA50VF MSZ-HR25VF + MSZ-HR25VF

MXZ-3HA50VF MSZ-HR25VF + MSZ-HR25VF + MSZ-HR25VF

MXZ-DM SERIES

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



R410A

2-port

MXZ-2DM40VA



R410A

3-port

MXZ-3DM50VA

Stylish Design with Flat Panel Front

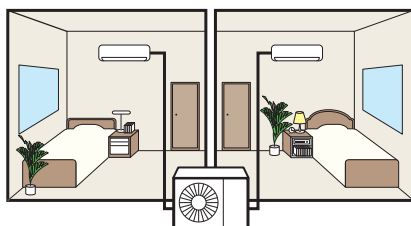
A stylish flat panel design is employed for the front of the indoor unit. The simple look matches room aesthetics.



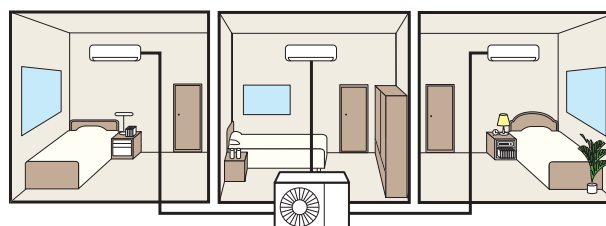
Easy to create various combinations

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

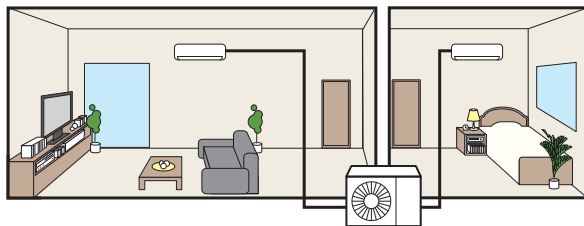
Two bedrooms



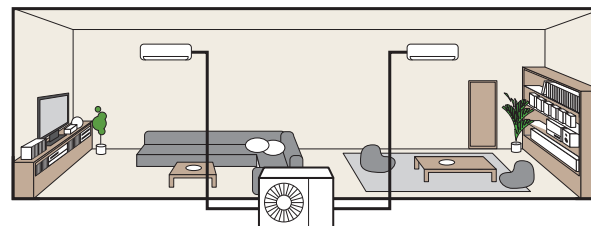
Three bedrooms



Living room and one bedroom



Wide living room

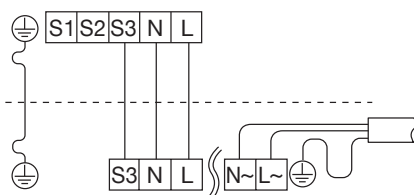


Attention MXZ-DM is exclusively for connection to MSZ-HJ and DM. Please check to make sure that wiring is done correctly.

For MXZ-DM

MSZ-HJ/DM

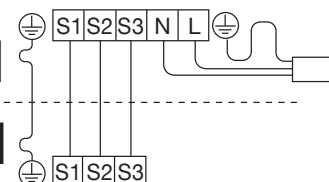
MXZ-2DM
MXZ-3DM



For MSZ-HJ/DM / MUZ-HJ/DM

MSZ-HJ/DM

MUZ-HJ/DM



MXZ-DM SERIES
INVERTER MULTI



Type (Inverter Multi - Split Heat Pump)				Up to 2 Indoor Units		Up to 3 Indoor Units		
Indoor Unit				Please refer to (*4)				
Outdoor Unit				MXZ-2DM40VA		MXZ-3DM50VA		
Refrigerant				R410A*1				
Power Supply	Source			Outdoor power supply				
	Outdoor (V/Phase/Hz)			230 / Single / 50				
Cooling	Capacity	Rated	kW	4.0		5.0		
	Input*4	Rated	kW	1.05		1.13		
	EER*4			3.81		4.42		
		EEL Rank*4		A		A		
	Design Load		kW	4.0		5.0		
	Annual Electricity Consumption*2		kWh/a	226		283		
	SEER*4			6.1		6.1		
		Energy Efficiency Class*4		A++		A++		
	Heating (Average Season)	Capacity	Rated	kW	4.3		6.0	
		Input	Rated	kW	1.16		1.31	
COP*4				3.71		4.58		
		EEL Rank*4		A		A		
Design Load			kW	3.2		4.0		
Declared Capacity		at reference design temperature	kW	2.73		3.34		
		at bivalent temperature	kW	3.01		3.73		
		at operation limit temperature	kW	2.27		2.70		
Back Up Heating Capacity			kW	0.47		0.66		
Annual Electricity Consumption*2			kWh/a	1105		1455		
SCOP*4				4.0		3.8		
		Energy Efficiency Class*4		A+		A		
Operating Current (max)			A	12.2		18.0		
Outdoor Unit		Dimensions	H × W × D	mm	550 - 800 (+69) - 285 (+59.5)		710 - 840 (+30) - 330 (+66)	
		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	A	5.1		5.0		
		Heating	A	5.6		5.8		
	Breaker Size		A	15		25		
Ext. Piping	Port Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2		6.35 × 3 / 9.52 × 3		
	Total Piping Length (max)		m	30		50		
	Each Indoor Unit Piping Length (max)		m	20		25		
	Max. Height		m	15 (10)*3		15 (10)*3		
	Chargeless Length		m	20		40		
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46				
		Heating	°C	-15 ~ +24				

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

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

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

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

MXZ-2DM40VA MSZ-DM25VA + MSZ-DM25VA

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

PUMY-SP SERIES

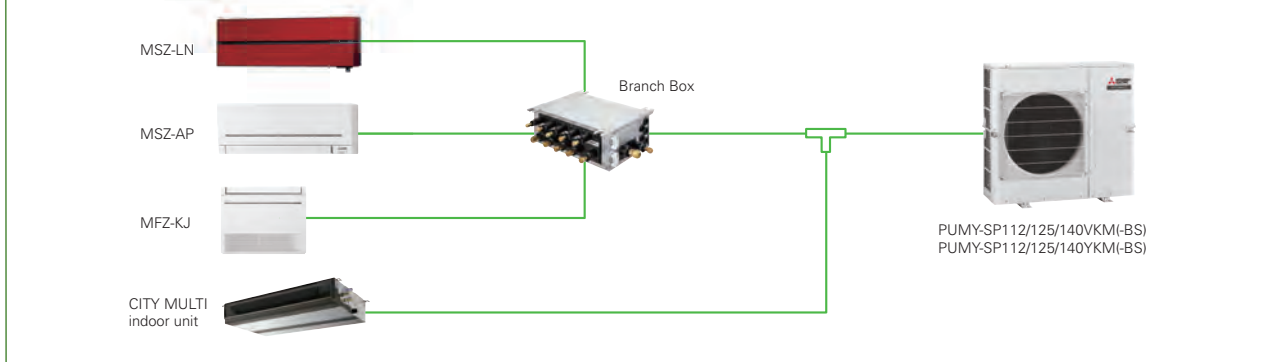
Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.



R410A

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

EXAMPLE SYSTEM



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.



PUMY-P112/125/140
YKM4(-BS)

Height 1,338mm
Weight 125kg

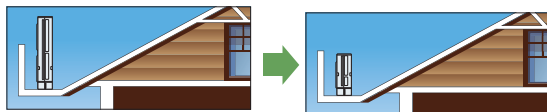


PUMY-SP112/125/140YKM(-BS)

27% reduction
Height 981mm
25% reduction
Weight 94kg

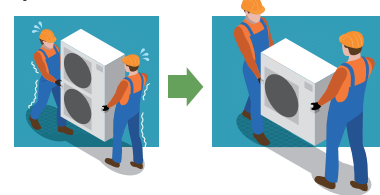
Unobstructive, compact, and easy to hide from view

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.



Easy installation and transportation

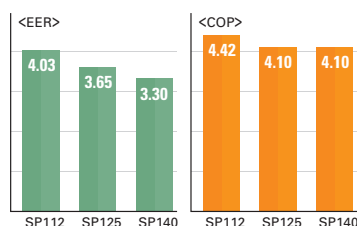
The reduced weight and height allow for better transportation performance. Carrying and installing become easier.



Industry's top energy efficiency*

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

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



Super silent mode*

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

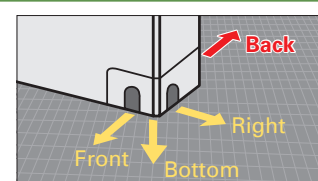
*Capacity reduction differs by mode setting.
*PAC-SC36NA-E is required to activate Super Silent mode.

Rear piping is available

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

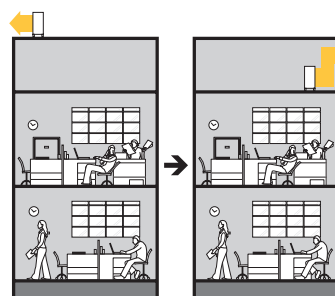
The in-door unit allows piping from any four directions; front, back, bottom, or right. This enables easier horizontal connection for collective layout.

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

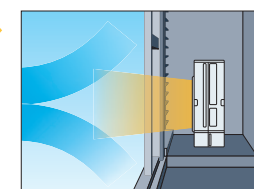


An external static pressure of 30Pa

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



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



*Noise level will increase when using this function.

PUMY-SP SERIES
INVERTER MULTI



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 / 220V 60Hz			3-phase 380 - 400 - 415V 50Hz / 380V 60Hz			
Cooling Capacity (nominal)	*1	kW	12.5	14.0	15.5	12.5	14.0	15.5	
		Power Input kW	3.10	3.84	4.70	3.10	3.84	4.70	
		Current Input A	14.38 - 13.75 - 13.18 / 14.38	17.81 - 17.04 - 16.33 / 17.81	21.80 - 20.85 - 19.88 / 21.80	4.96 - 4.71 - 4.54 / 4.96	6.14 - 5.83 - 5.62 / 6.14	7.52 - 7.14 - 6.88 / 7.52	
	EER	kW/kW	4.03	3.65	3.30	4.03	3.65	3.30	
Temp. Range of Cooling*5	Indoor Temp.	W.B.	15.0 - +24.0°C	15.0 - +24.0°C	15.0 - +24.0°C	15.0 - +24.0°C	15.0 - +24.0°C	15.0 - +24.0°C	
	Outdoor Temp.	D.B.	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	
Heating Capacity (nominal)	*2	kW	14.0	16.0	16.5	14.0	16.0	16.5	
		Power Input kW	3.17	3.90	4.02	3.17	3.90	4.02	
		Current Input A	14.70 - 14.06 - 13.48 / 14.70	18.09 - 17.30 - 16.58 / 18.09	18.65 - 17.83 - 17.09 / 18.65	5.07 - 4.82 - 4.64 / 5.07	6.24 - 5.93 - 5.71 / 6.24	6.43 - 6.11 - 5.89 / 6.43	
	COP	kW/kW	4.42	4.10	4.10	4.42	4.10	4.10	
Temp. Range of Heating	Indoor Temp.	D.B.	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	
	Outdoor Temp.	W.B.	-20.0 - +15.0°C	-20.0 - +15.0°C	-20.0 - +15.0°C	-20.0 - +15.0°C	-20.0 - +15.0°C	-20.0 - +15.0°C	
Indoor Unit Connectable	Total Capacity		50 to 130% of outdoor unit capacity						
	Model / Quantity		City Multi	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12
			Branch Box*10	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8
	Mixed System	Branch Box 1 unit	City Multi	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5
			Branch Box	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5
		Branch Box 2 units	City Multi	15 - 140 / 3 or 2*9	15 - 140 / 3	15 - 140 / 3	15 - 140 / 3 or 2*8	15 - 140 / 3	15 - 140 / 3
	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 Level (Cooling / Heating)		dB <A>	52 / 54	53 / 56	54 / 56	52 / 54	53 / 56	54 / 56	
Sound Power Level (Cooling)		dB <A>	72	73	74	72	73	74	
Refrigerant Piping Diameter	Liquid Pipe	mm	9.52 Flare						
	Gas Pipe	mm	15.88 Flare						
Fan	Type x Quantity		Propeller Fan x 1						
	Air Flow Rate	m³/min	77	83	83	77	83	83	
		L/s	1,283	1,383	1,383	1,283	1,383	1,383	
		cfm	2,719	2,931	2,931	2,719	2,931	2,931	
	Motor Output		0.20						
	External Static Press.		0 Pa / 30 Pa*9						
Compressor	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 x W x D)		mm	981x1,050x330 (+40)						
Net Weight		kg (lbs)	93 (205)*6			94 (207)*7			
Pre-Charged Quantity	Weight	kg	3.5	3.5	3.5	3.5	3.5	3.5	
	CO2 Equivalent	t	7.31	7.31	7.31	7.31	7.31	7.31	
Max Added Quantity	Weight	kg	9.0	9.0	9.0	9.0	9.0	9.0	
	CO2 Equivalent	t	18.79	18.79	18.79	18.79	18.79	18.79	

*1, *2 Nominal conditions

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

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

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

*9 0 Pa as initial setting

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

Type			Branch Box			
Model Name			PAC-MK53BC	PAC-MK33BC	PAC-MK53BCB	PAC-MK33BCB
Connectable Number of Indoor Units			Max. 5	Max. 3	Max. 5	Max. 3
Power Supply	Source		Outdoor power supply, Branch Box / Outdoor separate power supply			
	Outdoor (V/Phase/Hz)		1-phase, 220 - 230 - 240V, 50Hz			
Total Input		kW	0.003			
Operating Current		A	0.05			
Dimensions		H x W x D	170 - 450 - 280			
Weight		kg	7.4	6.7	7.0	6.5
Piping [diameter]	Branch [Indoor Side]	Liquid	6.35 x 5	6.35 x 3	6.35 x 5	6.35 x 3
		Gas	9.52 x 4, 12.7 x 1	9.52 x 3	9.52 x 4, 12.7 x 1	9.52 x 3
	Main [Outdoor Side]	Liquid	9.52			
		Gas	15.88			
	Connection Method		Flared		Brazed	
	Wiring	to Indoor Unit		3-wire + Earth wire		
to Outdoor Unit		3-wire + Earth wire				

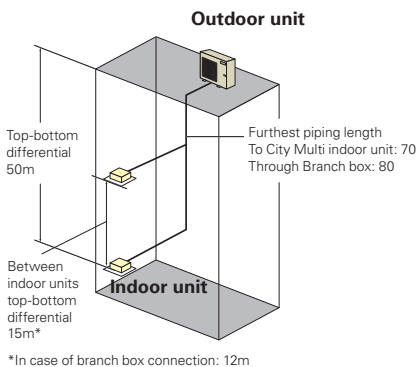
<Branch box compatible table>

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

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

Refrigerant Piping Lengths	Maximum meters
Total length	120
Maximum allowable length	To City Multi indoor unit: 70
	Through Branch box: 80

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



PUMY-P SERIES

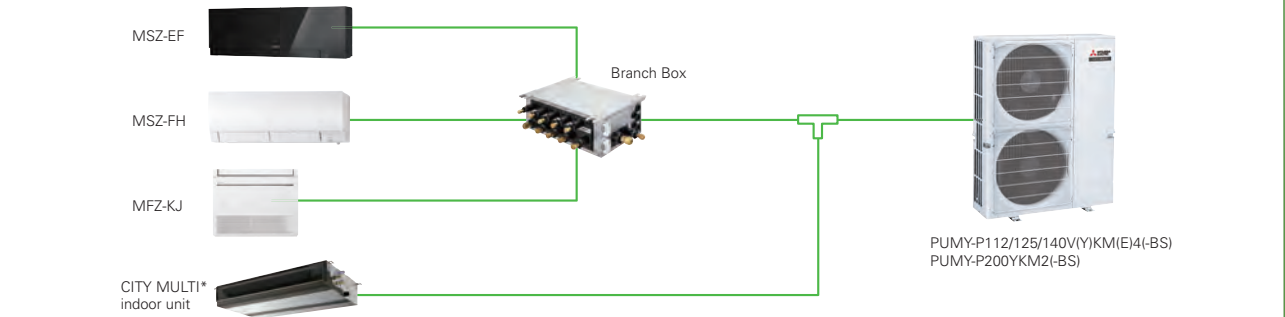
Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.



R410A

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

EXAMPLE SYSTEM



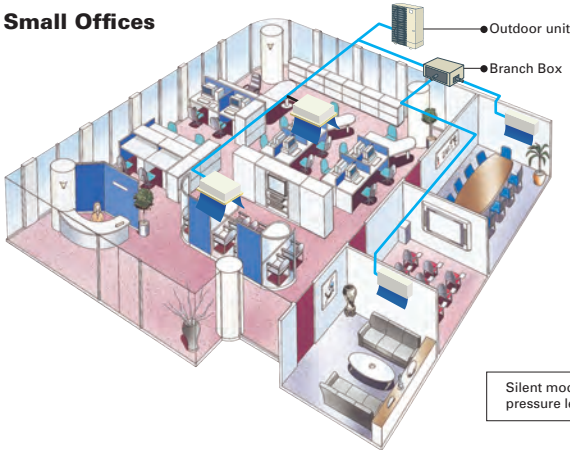
* In case of mix syst-EM (CITY MULTI indoor unit with Branch box), PKFY and PFFY series are not connectable. (P112/125/140)

The two-pipe zoned system designed for Heat Pump Operation

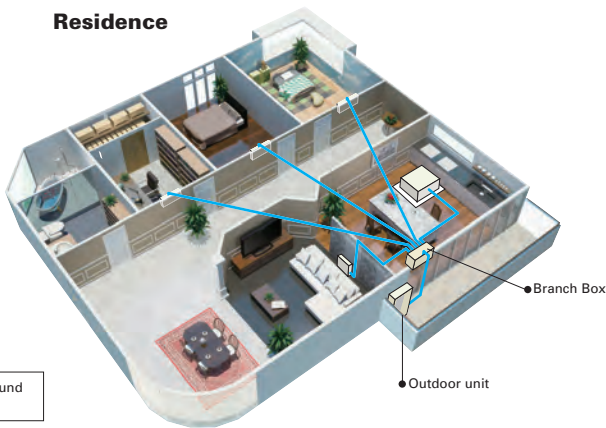
PUMY series make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively.

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.

Small Offices



Residence



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

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

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

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

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

30Pa external static pressure fan motor (option)
(PAC-SJ71FM-E)



PUMY SERIES
INVERTER MULTI



Model			PUMY-P112VKM4(-BS)	PUMY-P125VKM4(-BS)	PUMY-P140VKM4(-BS)	PUMY-P112YKM4(-BS)	PUMY-P125YKM4(-BS)	PUMY-P140YKM4(-BS)	PUMY-P200YKM2(-BS)	
Power Source			1-phase 220 - 230 - 240V 50Hz			3-phase 380 - 400 - 415V 50Hz				
Cooling Capacity (nominal)	*1	kW	12.5	14.0	15.5	12.5	14.0	15.5	22.4	
	Power Input	kW	2.79	3.46	4.52	2.79	3.46	4.52	6.05	
	Current Input	A	12.87 - 12.32 - 11.80	15.97 - 15.27 - 14.64	20.86 - 19.95 - 19.12	4.99 - 4.74 - 4.57	5.84 - 5.55 - 5.35	7.23 - 6.87 - 6.62	9.88 - 9.39 - 9.05	
	EER	kW/kW	4.48	4.05	3.43	4.48	4.05	3.43	3.70	
Temp. Range of Cooling	Indoor Temp.	W.B.	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	15.0 - 24.0°C	
	Outdoor Temp.*3	D.B.	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	
Heating Capacity (nominal)	*2	kW	14.0	16.0	18.0	14.0	16.0	18.0	25.0	
	Power Input	kW	3.04	3.74	4.47	3.04	3.74	4.47	5.84	
	Current Input	A	14.03 - 13.42 - 12.86	17.26 - 16.51 - 15.82	20.63 - 19.73 - 18.91	5.43 - 5.16 - 4.98	6.31 - 6.00 - 5.78	7.15 - 6.79 - 6.55	9.54 - 9.06 - 8.74	
	COP	kW/kW	4.61	4.28	4.03	4.61	4.28	4.03	4.28	
Temp. Range of Heating	Indoor Temp.	D.B.	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	
	Outdoor Temp.	W.B.	-20.0 - 15.0°C	-20.0 - 15.0°C	-20.0 - 15.0°C	-20.0 - 15.0°C	-20.0 - 15.0°C	-20.0 - 15.0°C	-20.0 - 15.0°C	
Indoor Unit Connectable	Total Capacity		50 to 130% of outdoor unit capacity							
	Model / Quantity		City Multi	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12	15 - 200 / 12
			Branch Box*5	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8
	Mixed System	Branch Box 1 unit	City Multi	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 200 / 5
			Branch Box	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5
		Branch Box 2 units	City Multi	15 - 140 / 3 or 2*4	15 - 140 / 3	15 - 140 / 3	15 - 140 / 3	15 - 140 / 3 or 2*4	15 - 140 / 3	15 - 140 / 3
			Branch Box	15 - 100 / 7 or 8*4	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 7 or 8*4	15 - 100 / 8	15 - 100 / 8
Sound Pressure Level (measured in anechoic room)		dB <A>	49 / 51	50 / 52	51 / 53	49 / 51	50 / 52	51 / 53	56 / 61	
Refrigerant Piping Diameter	Liquid Pipe	mm	9.52 Flare							9.52*6 Flare
	Gas Pipe	mm	15.88 Flare							19.1 Flare
Fan	Type x Quantity		Propeller Fan x 2							
	Air Flow Rate	m³/min	110							139
		L/s	1,883							2,316
		cfm	3,884							4,908
	Motor Output	kW	0.074 + 0.074							0.20 + 0.20
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	1,338x1,050x330 (+40)							
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 (nominal)	*1		kW		12.5		14.0	
	Power Input		kW		2.79		3.46	
	Current Input		A		4.99 / 4.74 / 4.57		5.84 / 5.55 / 5.35	
	EER		kW/kW		4.48		4.05	
Temp. Range of Cooling	Indoor Temp.		W.B.		15 to 24°C			
	Outdoor Temp.*3		D.B.		-5 to 52°C			
Heating Capacity (nominal)	*2		kW		14.0		16.0	
	Power Input		kW		3.04		3.74	
	Current Input		A		5.43 / 5.16 / 4.98		6.31 / 6.00 / 5.78	
	COP		kW/kW		4.61		4.28	
Temp. Range of Heating	Indoor Temp.		D.B.		15 to 27°C			
	Outdoor Temp.		W.B.		-20 to 15°C			
Indoor Unit Connectable	Total Capacity		50 to 130% of outdoor unit capacity					
	Model / Quantity		City Multi		15 - 140 / 9		15 - 140 / 10	
			Branch Box*5		15 - 100 / 8		15 - 100 / 8	
	Mixed System	Branch Box 1 unit	City Multi		15 - 140 / 5		15 - 140 / 5	
			Branch Box		15 - 100 / 5		15 - 100 / 5	
			City Multi		15 - 140 / 3 or 2*4		15 - 140 / 3	
			Branch Box		15 - 100 / 7 or 8*4		15 - 100 / 8	
Branch Box 2 units								
Sound Pressure Level (measured in anechoic room)			dB <A>		49 / 51		50 / 52	
							51 / 53	
Refrigerant Piping Diameter	Liquid Pipe		mm		9.52 Flare			
	Gas Pipe		mm		15.88 Flare			
Fan	Type x Quantity		Propeller Fan x 2					
	Air Flow Rate	m³/min		110				
		L/s		1,833				
		cfm		3,884				
	Motor Output		kW		0.074 + 0.074			
Compressor	Type x Quantity		Scroll hermetic compressor x 1					
	Starting Method		Inverter					
	Motor Output		kW		2.9		3.5	
External Dimensions (H x W x D)			mm		1,338x1,050x330 (+40)			
Weight			kg		136			

*1, *2 Nominal conditions

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

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

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

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

Type			Branch Box			
Model Name			PAC-MK53BC	PAC-MK33BC	PAC-MK53BCB	PAC-MK33BCB
Connectable Number of Indoor Units			Max. 5	Max. 3	Max. 5	Max. 3
Power Supply	Source	Outdoor power supply, Branch Box / Outdoor separate power supply				
	Outdoor (V/Phase/Hz)	1-phase, 220/230/240V, 50Hz, 1-phase, 220V, 60Hz				
Total Input		kW	0.003			
Operating Current		A	0.05			
Dimensions		H x W x D	mm 170 - 450 - 280			
Weight		kg	7.4	6.7	7.0	6.5
Piping [diameter]	Branch [Indoor Side]	Liquid	mm 6.35 x 5	6.35 x 3	6.35 x 5	6.35 x 3
		Gas	mm 9.52 x 4, 12.7 x 1	9.52 x 3	9.52 x 4, 12.7 x 1	9.52 x 3
	Main [Outdoor Side]	Liquid	mm 9.52			
		Gas	mm 15.88			
	Connection Method		Flared		Brazed	
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.

Indoor Unit			Outdoor Unit		Inverter Models Heat pump type						
			MXZ-2F33VF	MXZ-2F42VF	MXZ-2F53VF(H)	MXZ-3F54VF	MXZ-3F68VF	MXZ-4F72VF	MXZ-2HA40VF	MXZ-2HA50VF	MXZ-3HA50VF
M series	Wall-Mounted	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-AP15VF	●	●	●	●	●	●			
		MSZ-AP20VF	●	●	●	●	●	●			
		MSZ-AP25VG	●	●	●	●	●	●			
		MSZ-AP35VG		●	●	●	●	●			
		MSZ-AP42VG			●	●	●	●			
		MSZ-AP50VG			●	●	●	●			
		MSZ-FH25VE2									
		MSZ-FH35VE2									
		MSZ-FH50VE2									
		MSZ-EF18VG(W)(B)(S)	●	●	●	●	●	●			
		MSZ-EF22VG(W)(B)(S)	●	●	●	●	●	●			
		MSZ-EF25VG(W)(B)(S)	●	●	●	●	●	●			
		MSZ-EF35VG(W)(B)(S)		●	●	●	●	●			
		MSZ-EF42VG(W)(B)(S)			●	●	●	●			
		MSZ-EF50VG(W)(B)(S)			●	●	●	●			
		MSZ-SF15VA									
		MSZ-SF20VA									
		MSZ-SF25VE3									
		MSZ-SF35VE3									
		MSZ-SF42VE3									
		MSZ-SF50VE3									
		MSZ-GF60VE2									
		MSZ-GF71VE2									
		MSZ-DM25VA									
		MSZ-DM35VA									
		MSZ-HJ25VA									
		MSZ-HJ35VA									
		MSZ-HJ50VA									
		MSZ-HR25VF							●	●	●
		MSZ-HR35VF							●	●	●
		MSZ-HR42VF								●	●
		MSZ-HR50VF									●
	Floor-Standing	MFZ-KJ25VE2									
		MFZ-KJ35VE2									
		MFZ-KJ50VE2									
	1-way Cassette	MLZ-KP25VF	●	●	●	●	●	●			
		MLZ-KP35VF		●	●	●	●	●			
		MLZ-KP50VF				●	●	●			
S series	2x2 Cassette	SLZ-M15FA	●	●	●	●	●	●			
		SLZ-M25FA	●	●	●	●	●	●			
		SLZ-M35FA		●	●	●	●	●			
		SLZ-M50FA				●	●	●			
	Ceiling-Concealed	SEZ-M25DA*2	●	●	●	●	●	●			
		SEZ-M25DAL*2	●	●	●	●	●	●			
		SEZ-M35DA		●	●	●	●	●			
		SEZ-M35DAL		●	●	●	●	●			
		SEZ-M50DA				●	●	●			
		SEZ-M50DAL				●	●	●			
		SEZ-M60DA					●	●			
		SEZ-M60DAL					●	●			
		SEZ-M71DA									
		SEZ-M71DAL									
P series	4-way Cassette	PLA-M50EA									
		PLA-M60EA									
		PLA-M71EA									
	Ceiling-Suspended	PCA-M50KA				●	●	●			
		PCA-M60KA					●	●			
		PCA-M71KA									
	Ceiling-Concealed	PEAD-M50JA				●*1	●*1	●*1			
		PEAD-M50JAL				●*1	●*1	●*1			
		PEAD-M60JA									
		PEAD-M60JAL									
		PEAD-M71JA									
		PEAD-M71JAL									

*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.

Indoor Unit			Outdoor Unit	Inverter Models Heat pump type												
			MXZ- ^{*3} 2D33VA	MXZ- ^{*3} 2D42VA2	MXZ- ^{*3} 2D53VA(H)2	MXZ- ^{*3} 2E53VAHZ	MXZ- ^{*3} 3E54VA	MXZ- ^{*3} 3E68VA	MXZ- ^{*3} 4E72VA	MXZ- ^{*3} 4E83VA	MXZ- ^{*3} 4E83VAHZ	MXZ- ^{*3} 5E102VA	MXZ- ^{*3} 6D122VA2	MXZ- ^{*3} 2DM40VA	MXZ- ^{*3} 3DM50VA	
M series	Wall-Mounted	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-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-EF18VG(W)(B)(S)	●	●	●	●	●	●	●	●	●	●	●	●		
		MSZ-EF22VG(W)(B)(S)	●	●	●	●	●	●	●	●	●	●	●	●		
		MSZ-EF25VG(W)(B)(S)	●	●	●	●	●	●	●	●	●	●	●	●		
		MSZ-EF35VG(W)(B)(S)		●	●	●	●	●	●	●	●	●	●	●		
		MSZ-EF42VG(W)(B)(S)			●	●	●	●	●	●	●	●	●	●		
		MSZ-EF50VG(W)(B)(S)			●	●	●	●	●	●	●	●	●	●		
		MSZ-SF15VA	●	●	●	●	●	●	●	●	●	●	●	●		
		MSZ-SF20VA	●	●	●	●	●	●	●	●	●	●	●	●		
		MSZ-SF25VE3	●	●	●	●	●	●	●	●	●	●	●	●		
		MSZ-SF35VE3		●	●	●	●	●	●	●	●	●	●	●		
		MSZ-SF42VE3			●	●	●	●	●	●	●	●	●	●		
		MSZ-SF50VE3			●	●	●	●	●	●	●	●	●	●		
		MSZ-GF60VE2				●	●	●	●	●	●	●	●	●		
		MSZ-GF71VE2								●	●	●	●	●		
		MSZ-DM25VA													●	●
		MSZ-DM35VA													●	●
		MSZ-HJ25VA													●	●
	MSZ-HJ35VA													●	●	
	MSZ-HJ50VA														●	
	MSZ-HR25VF															
	MSZ-HR35VF															
	MSZ-HR42VF															
	MSZ-HR50VF															
	Floor-Standing	MFZ-KJ25VE2	● ^{*4} 5	● ^{*4}	● ^{*4}	●	● ^{*4}	● ^{*4}	●	●	●	●	●	●		
		MFZ-KJ35VE2		● ^{*4}	● ^{*4}	●	● ^{*4}	● ^{*4}	●	●	●	●	●	●		
		MFZ-KJ50VE2					● ^{*4}	● ^{*4}	●	●	●	●	●	●		
	1-way Cassette	MLZ-KP25VF	●	●	●	●	●	●	●	●	●	●	●	●		
		MLZ-KP35VF		●	●	●	●	●	●	●	●	●	●	●		
		MLZ-KP50VF					●	●	●	●	●	●	●	●		
S series	2x2 Cassette	SLZ-M15FA														
		SLZ-M25FA	●	●	●	●	●	●	●	●	●	●	●			
		SLZ-M35FA		●	●	●	●	●	●	●	●	●	●			
		SLZ-M50FA					●	●	●	●	●	●	●			
	Ceiling-Concealed	SEZ-M25DA ^{*2}	●	●	●	●	●	●	●	●	●	●	●	●		
		SEZ-M25DAL ^{*2}	●	●	●	●	●	●	●	●	●	●	●	●		
		SEZ-M35DA		●	●	●	●	●	●	●	●	●	●	●		
		SEZ-M35DAL		●	●	●	●	●	●	●	●	●	●	●		
		SEZ-M50DA					●	●	●	●	●	●	●	●		
		SEZ-M50DAL					●	●	●	●	●	●	●	●		
		SEZ-M60DA						●	●	●	●	●	●	●		
		SEZ-M60DAL						●	●	●	●	●	●	●		
SEZ-M71DA								●	●	●	●	●				
SEZ-M71DAL								●	●	●	●	●				
P series	4-way Cassette	PLA-M50EA					●	●	●	●	●	●	●			
		PLA-M60EA						●	●	●	● ^{*6}	●	●			
		PLA-M71EA							●	● ^{*6}	●	●	●			
	Ceiling-Suspended	PCA-M50KA					●	●	●	●	● ^{*6}	●	●			
		PCA-M60KA						●	●	●	● ^{*6}	●	●			
		PCA-M71KA								●	● ^{*6}	●	●			
	Ceiling-Concealed	PEAD-M50JA					● ^{*1}	● ^{*1}	● ^{*1}	● ^{*1}	● ^{*1} 6	● ^{*1}	● ^{*1}			
		PEAD-M50JAL					● ^{*1}	● ^{*1}	● ^{*1}	● ^{*1}	● ^{*1} 6	● ^{*1}	● ^{*1}			
		PEAD-M60JA								● ^{*1}	● ^{*1} 6	● ^{*1}	● ^{*1}			
		PEAD-M60JAL								● ^{*1}	● ^{*1} 6	● ^{*1}	● ^{*1}			
PEAD-M71JA								● ^{*1}	● ^{*1} 6	● ^{*1}	● ^{*1}					
PEAD-M71JAL								● ^{*1}	● ^{*1} 6	● ^{*1}	● ^{*1}					

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

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

^{*3} MXZ outdoor units are not designed to operate with a single indoor unit with one-to-one piping work. Please install at least two indoor units.

^{*4} When connecting the MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please refer to page 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-3E54VA-E2, MXZ-3E68VA-E2, MXZ-4E72VA-E2, MXZ-4E83VA-E4, MXZ-4E83VAHZ-E3, MXZ-5E102VA-E4.

■ PUMY-SP Series

Branch Box Connection Compatibility Table

Series	Type	Model Name	Capacity										
			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									●	●	
P series	Floor-Standing	MFZ-KJ•VE 2					●*1	●*1		●*1			
	1-way Cassette	MLZ-KP•VF					●*1	●*1		●*1			
	4-way Cassette	PLA-M•EA						●		●	●	●	●
S series	Ceiling-Concealed	SEZ-M•DA(L)					●*1	●*1		●*1	●*1	●*1	
	2x2 Cassette	SLZ-M•FA	●*1				●*1	●*1		●*1			
P series	Ceiling-Suspended	PCA-M•KA						●		●	●	●	●
	4-way Cassette	PLA-M•EA						●		●	●	●	●
	Ceiling-Concealed	PEAD-M•JA(L)								●	●	●	●

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

LEV Kit Connection Compatibility 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•VF/VG	●*1		●*1		●*1	●*1	●*1	●*1		
		MSZ-FH•VE2					●	●		●		
		MSZ-EF•VE3		●		●	●	●	●	●		
		MSZ-SF•VA	●		●							
		MSZ-SF•VE3					●	●	●	●		
P series	Floor-Standing	MFZ-KJ•VE 2										

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

CITY MULTI Indoor Unit Compatibility Table

Series	Type	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•VLM-D-E		●	●	●	●	●	●		●	●	●	
	4-way Cassette	PLFY-P•VEM-E		●	●	●	●	●	●		●	●	●	
		PLFY-EP•VEM-E *4						●	●		●			
	2x2 Cassette	PLFY-P•VFM-E1	●	●	●	●	●	●						
	Ceiling Concealed	PEFY-P•VMS1(L)-E	●	●	●	●	●	●	●					
		PEFY-P•VMA(L)-E		●	●	●	●	●	●	●	●	●	●	●
		PEFY-P•VMA3(L)-E *1			●	●	●							
		PEFY-P•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 series.

*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

Series	Type	Model Name	Capacity										
			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)					●	●		●	●	●	
	2x2 Cassette	SLZ-M•FA	●*1				●	●		●			
P series	Ceiling-Suspended	PCA-M•KA						●		●	●	●	●
	4-way Cassette	PLA-M•EA						●		●	●	●	●
	Ceiling-Concealed	PEAD-M•JA(L)								●	●	●	●

*1 PUMY-P200YKM2 is not connectable.

LEV Kit Connection Compatibility 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•VF/VG	●		●		●	●	●	●		
		MSZ-FH•VE2					●	●		●		
		MSZ-EF•VE3		●		●	●	●	●	●		
		MSZ-SF•VA	●		●							
		MSZ-SF•VE3					●	●	●	●		
	Floor-Standing	MFZ-KJ•VE2					●	●		●		

CITY MULTI Indoor Unit Compatibility Table

Series	Type	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		●	●	●	●	●	●		●	●	●	
	4-way Cassette	PLFY-P•VEM-E		●	●	●	●	●	●		●	●	●	
		PLFY-EP•VEM-E*4						●	●		●			
	2x2 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-P25x2+P32x2, PUMY-P125:PEFY-P32x4, PUMY-P140:PEFY-P32x3+P40x1, PUMY-P200YKM2:PEFY-P40x2+P63x2

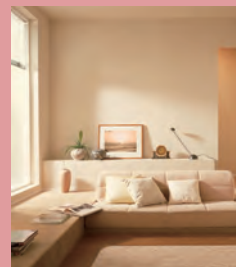
*2 Note that connection is not allowed inside EU countries.
PWFY can not connect to PUMY-P200YKM2.

*3 Do not connect Lossnay remote controller(s). (PZ-61DR-E, PZ-60DR-E, PZ-52SF-E, PZ-43SMF-E)

*4 PUMY-P112/125/140: PLFY-EP can not connect more than 3 units
PUMY-P200: Authorized connectable indoor units are only as follows; PLFY-EP63VEM-Ex3.

POWERFUL HEATING

SERIES



SELECTION

Choose the series that best matches the building layout.

MSZ-LN VGHZ, MSZ-FH/MFZ-KJ VEHZ SERIES

The line-up includes outdoor models 25-50

Outdoor Unit

R32

R410A



MUZ-LN25/35VGHZ
MUZ-FH25/35VEHZ
MUFZ-KJ25/35VEHZ

R32

R410A



MUZ-LN50VGHZ
MUZ-FH50VEHZ
MUFZ-KJ50VEHZ

Indoor Unit

Wall-mounted

R32

R410A



MSZ-LN25/35/50VG
(W)(V)(R)(B)

R410A



MSZ-FH25/35/50VE2

Floor-standing

R410A



MFZ-KJ25/35/50VE2

ZUBADAN

ZUBADAN SERIES

The line-up includes outdoor unit models 112-140 class and three types of indoor units.

Outdoor Unit

R410A



PUHZ-SHW112VHA
PUHZ-SHW112/140YHA

Ceiling-concealed

R32

R410A



PEAD Series

Indoor Unit

4-way cassette

R32

R410A



PLA Series

Wall-mounted

R32

R410A



PKA Series

MXZ-VAHZ SERIES

Outdoor Unit

R410A



MXZ-2E53VAHZ

R410A



MXZ-4E83VAHZ

116

LN VGHZ FH VEHZ

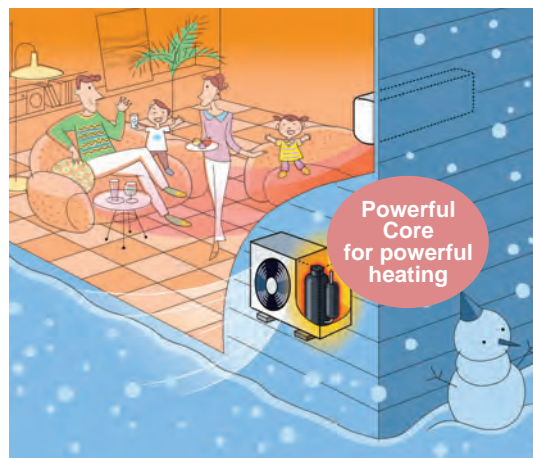
R32 R410A
Single / Multi Multi

SERIES

R410A
Single / Multi

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.



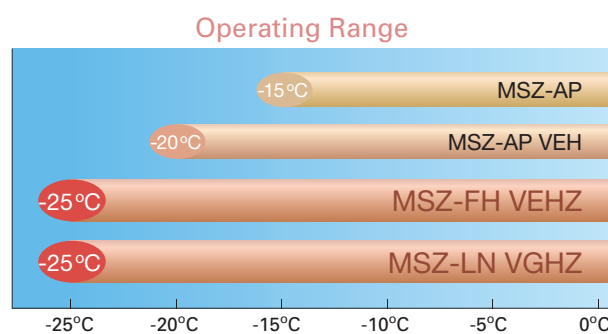
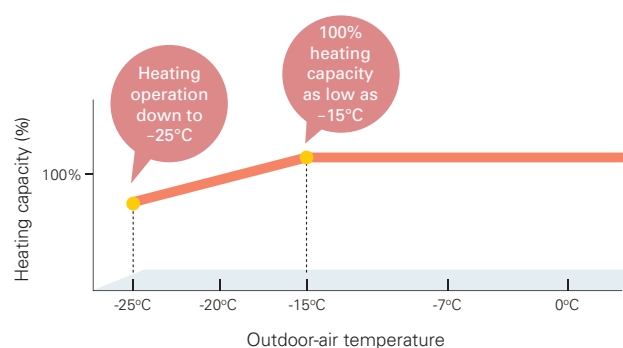
MSZ-LN25/35/42VG(W)(V)(R)(B)



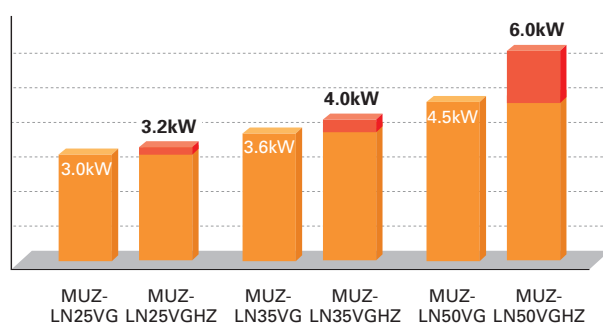
MSZ-FH25/35/50VE2

Unparalleled Heating Performance

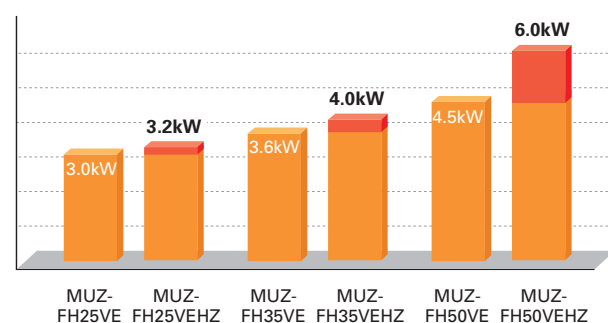
LN Series and FH Series outdoor units are equipped with a high-output compressor that provides enhanced heating performance under low outdoor temperatures. The heating operation range is extended down to -25°C.



Declared Capacity (at reference design temperature)



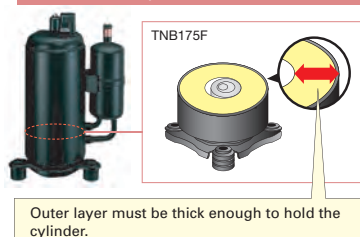
Declared Capacity (at reference design temperature)



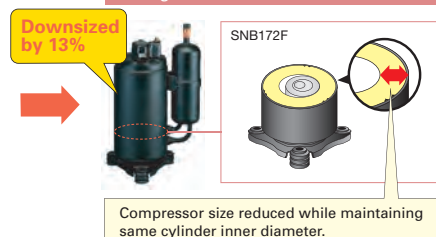
Compact, Powerful Compressor

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.

Compressor fixed using conventional method (Arc spot-welded method)



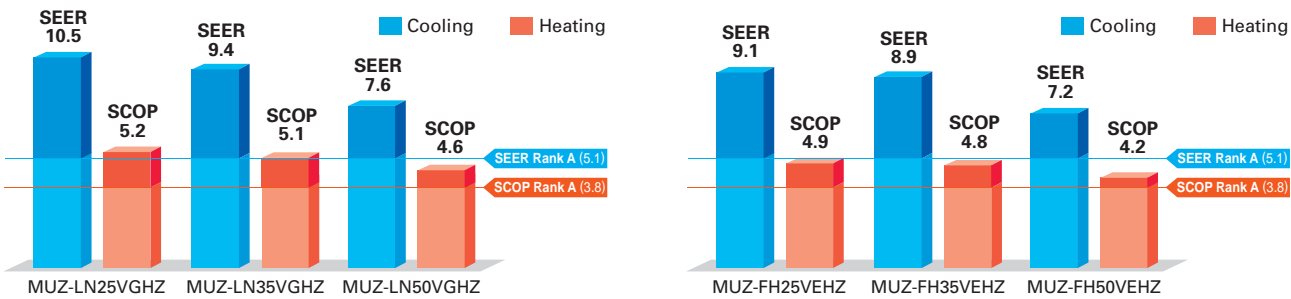
Compressor fixed using Heat Caulking Fixing Method



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



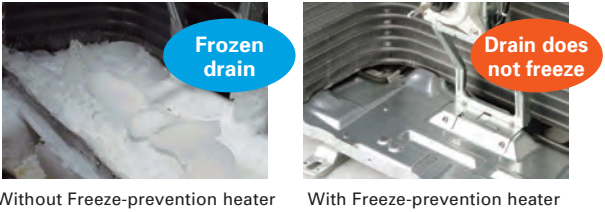
With indoor units that combine functionality, design and capacity and outdoor units equipped with a high-efficiency compressor, the MUZ-LN VGHZ and MUZ-FH VEHZ simultaneously achieves high heating capacity and energy-saving performance.



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



MSZ-LN VGHZ SERIES



Indoor Unit / Remote Controller

<Pearl White>



MSZ-LN25/35/50VGV

<Ruby Red>



MSZ-LN25/35/50VGR

<Natural White>



MSZ-LN25/35/50VGW

<Onyx Black>



MSZ-LN25/35/50VGB



GOOD DESIGN AWARD 2016
BEST 100

Outdoor Unit



MUZ-LN25/35VGHZ



MUZ-LN50VGHZ



Type			Inverter Heat Pump				
Indoor Unit			MSZ-LN25VG(W)(V)(R)(B)	MSZ-LN35VG(W)(V)(R)(B)	MSZ-LN50VG(W)(V)(R)(B)		
Outdoor Unit			MUZ-LN25VGHZ	MUZ-LN35VGHZ	MUZ-LN50VGHZ		
Refrigerant			R32 (*1)				
Power Supply	Source		Outdoor Power supply				
	Outdoor (V/Phase/Hz)		230/Single/50				
Cooling	Design Load		kW	2.5	3.5	5.0	
	Annual Electricity Consumption (*2)		kWh/a	83	130	230	
	SEER (*4)			10.5	9.4	7.6	
	Capacity	Energy Efficiency Class		A+++	A+++	A++	
		Rated	kW	2.5	3.5	5.0	
		Min - Max	kW	0.8 - 3.5	0.8 - 4.0	1.4 - 5.8	
		Total Input	Rated	kW	0.485	0.820	1.380
Heating (Average Season) ⁽¹⁾	Design Load		kW	3.2 (−10°C)	4.0 (−10°C)	6.0 (−10°C)	
	Declared Capacity	at reference design temperature	kW	3.2 (−10°C)	4.0 (−10°C)	6.0 (−10°C)	
		at bivalent temperature	kW	3.2 (−10°C)	4.0 (−10°C)	6.0 (−10°C)	
		at operation limit temperature	kW	2.3 (−25°C)	3.1 (−25°C)	4.7 (−25°C)	
	Back Up Heating Capacity		kW	0.0 (−10°C)	0.0 (−10°C)	0.0 (−10°C)	
	Annual Electricity Consumption (*2)		kWh/a	849	1082	1826	
	SCOP (*4)			5.2	5.1	4.6	
	Capacity	Energy Efficiency Class		A+++	A+++	A++	
		Rated	kW	3.2	4.0	6.0	
		Min - Max	kW	1.0 - 6.3	1.0 - 6.6	1.8 - 8.7	
		Total Input	Rated	kW	0.580	0.800	1.480
	Operating Current (max)			A	9.9	10.5	15.2
Indoor Unit	Input	Rated	kW	0.029	0.029	0.034	
	Operating Current (max)		A	0.3	0.3	0.4	
	Dimensions	H × W × D	mm	307 - 890 - 233	307 - 890 - 233	307 - 890 - 233	
	Weight		kg	15.5	15.5	15.5	
	Air Volume (SLo-Lo-Mid-Hi-SHi ^(*) (Dry/Wet))	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	
		Heating	m³/min	4.0 - 5.7 - 7.1 - 8.5 - 14.4	4.3 - 5.7 - 7.1 - 8.5 - 13.7	5.4 - 6.4 - 8.5 - 10.7 - 15.7	
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi ^(*))	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	27 - 31 - 35 - 39 - 46	
		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	
	Outdoor Unit	Dimensions	H × W × D	mm	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330
Weight			kg	35	36	55	
Air Volume		Cooling	m³/min	31.4	33.8	48.8	
		Heating	m³/min	27.4	27.4	51.3	
Sound Level (SPL)		Cooling	dB(A)	46	49	51	
		Heating	dB(A)	49	50	54	
Sound Level (PWL)		Cooling	dB(A)	60	61	64	
		Heating	dB(A)	60	61	64	
Operating Current (max)		A	9.6	10.2	14.8		
Breaker Size		A	10	12	16		
Ext. Piping	Diameter	Liquid / Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	
	Max. Length	Out-In	m	20	20	30	
	Max. Height	Out-In	m	12	12	15	
Guaranteed Operating Range [Outdoor]		Cooling	°C	−10 ~ +46	−10 ~ +46	−10 ~ +46	
		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 00 for heating (warmer season/colder season) specifications.

MSZ-FH VEHZ SERIES



Indoor Unit



MSZ-FH25/35/50VE2



Outdoor Unit



MUZ-FH25/35VEHZ



MUZ-FH50VEHZ

Remote Controller



Type			Inverter Heat Pump		
Indoor Unit			MSZ-FH25VE2	MSZ-FH35VE2	MSZ-FH50VE2
Outdoor Unit			MUZ-FH25VEHZ	MUZ-FH35VEHZ	MUZ-FH50VEHZ
Refrigerant			R410A ^{(*)1}		
Power Supply	Source		Outdoor power supply		
	Outdoor (V/Phase/Hz)		230 / Single / 50		
Cooling	Design Load	kW	2.5	3.5	5.0
	Annual Electricity Consumption ^{(*)2}	kWh/a	96	138	244
	SEER ^{(*)4}		9.1	8.9	7.2
	Energy Efficiency Class		A+++	A+++	A++
	Capacity	Rated	2.5	3.5	5.0
		Min - Max	0.8 - 3.5	0.8 - 4.0	1.9 - 6.0
	Total Input	Rated	0.485	0.820	1.380
Heating (Average Season) ^{(*)3}	Design Load	kW	3.2	4.0	6.0
	Declared Capacity	at reference design temperature	3.2	4.0	6.0
		at bivalent temperature	3.2	4.0	6.0
		at operation limit temperature	1.7	2.6	3.8
		kW	1.7	2.6	3.8
	Back Up Heating Capacity	kW	0.0	0.0	0.0
	Annual Electricity Consumption ^{(*)2}	kWh/a	924	1173	2006
	SCOP ^{(*)4}		4.9	4.8	4.2
	Energy Efficiency Class		A++	A++	A+
	Capacity	Rated	3.2	4.0	6.0
		Min - Max	1.0 - 6.3	1.0 - 6.6	1.7 - 8.7
	Total Input	Rated	0.580	0.800	1.480
Operating Current (max)		A	9.6	10.5	14.0
Indoor Unit	Input	Rated	kW	0.029	0.031
	Operating Current (max)		A	0.4	0.4
	Dimensions	H x W x D	mm	305 (+17) - 925 - 234	
	Weight		kg	13.5	13.5
	Air Volume (SLo-Lo-Mid-Hi-SHi ^{(*)3}) (Dry/Wet)	Cooling	m ³ /min	3.9 - 4.7 - 6.3 - 8.6 - 11.6 (10.5)	6.4 - 7.4 - 8.6 - 10.1 - 12.4
		Heating	m ³ /min	4.0 - 4.7 - 6.4 - 9.2 - 13.2	5.7 - 7.2 - 9.0 - 11.2 - 14.6
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi ^{(*)3})	Cooling	dB(A)	20 - 23 - 29 - 36 - 42	27 - 31 - 35 - 39 - 44
		Heating	dB(A)	20 - 24 - 29 - 36 - 44	25 - 29 - 34 - 39 - 46
	Sound Level (PWL)	dB(A)	58	58	60
	Dimensions	H x W x D	mm	550 - 800 - 285	880 - 840 - 330
	Weight		kg	37	55
Outdoor Unit	Air Volume	Cooling	m ³ /min	31.3	48.8
		Heating	m ³ /min	31.3	51.3
	Sound Level (SPL)	Cooling	dB(A)	46	51
		Heating	dB(A)	49	54
	Sound Level (PWL)	Cooling	dB(A)	60	64
		Heating	dB(A)	61	64
	Operating Current (max)	A	9.2	10.1	13.6
	Breaker Size	A	10	12	16
	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 12.7
	Max. Length	Out-In	m	20	30
	Max. Height	Out-In	m	12	15
Guaranteed Operating Range (Outdoor)	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heating	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24

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

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

(*)3 SHi: Super High

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

(*)5 Please see page 00 for heating (warmer season) specifications.

MFZ-KJ SERIES



Indoor Unit

R410A
Single / Multi



MFZ-KJ25/35/50VE2



Outdoor Unit



MUFZ-KJ25/35VEHZ



MUFZ-KJ50VEHZ

Remote Controller



Type			Inverter Heat Pump			
Indoor Unit			MFZ-KJ25VE2	MFZ-KJ35VE2	MFZ-KJ50VE2	
Outdoor Unit			MUFZ-KJ25VEHZ	MUFZ-KJ35VEHZ	MUFZ-KJ50VEHZ	
Refrigerant			R410A (*1)			
Power Supply	Source		Outdoor power supply			
	Outdoor (V/Phase/Hz)		230 / Single / 50			
Cooling	Design Load		kW	2.5	3.5	5.0
	Annual Electricity Consumption (*2)		kWh/a	102	150	266
	SEER (*4)			8.5	8.1	6.5
		Energy Efficiency Class		A+++	A++	A++
	Capacity	Rated	kW	2.5	3.5	5.0
		Min - Max	kW	0.5 - 3.4	0.5 - 3.7	1.6 - 5.7
	Total Input	Rated	kW	0.540	0.940	1.410
Heating (Average Season)	Design Load		kW	3.5	3.6	4.5
	Declared Capacity	at reference design temperature	kW	3.5	3.6	4.5
		at bivalent temperature	kW	3.5	3.6	4.5
		at operation limit temperature	kW	1.6	2.3	3.3
	Back Up Heating Capacity		kW	0.0	0.0	0.0
	Annual Electricity Consumption (*2)		kWh/a	1104	1158	1467
	SCOP (*4)			4.4	4.3	4.2
		Energy Efficiency Class		A+	A+	A+
	Capacity	Rated	kW	3.4	4.3	6.0
		Min - Max	kW	1.2 - 5.1	1.2 - 5.8	2.2 - 8.4
	Total Input	Rated	kW	0.770	1.100	1.610
Operating Current (max)			A	4.42	3.91	3.73
Indoor Unit	Input	Rated	kW	0.016	0.016	0.038
			A	0.17	0.17	0.34
	Operating Current (max)					
	Dimensions		H × W × D	mm	600 - 750 - 215	
	Weight		kg	15	15	15
	Air Volume (SLo-Lo-Mid-Hi-SHi (*3) (Dry/Wet))	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
		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) (SLo-Lo-Mid-Hi-SHi (*3))	Cooling	dB(A)	20 - 25 - 30 - 35 - 39	20 - 25 - 30 - 35 - 39	27 - 31 - 35 - 39 - 44
		Heating	dB(A)	19 - 25 - 30 - 35 - 41	19 - 25 - 30 - 35 - 41	29 - 35 - 40 - 45 - 50
	Sound Level (PWL)		dB(A)	49	50	56
Outdoor Unit	Dimensions		H × W × D	mm	550 - 800 - 285	
	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
		Heating	dB(A)	63	63	63
	Operating Current (max)		A	9.2	10	13.6
	Breaker Size		A	10	12	16
Ext. Piping	Diameter		Liquid / Gas	mm	6.35 / 9.52	
	Max. Length		Out-In	m	20	
	Max. Height		Out-In	m	12	
Guaranteed Operating Range [Outdoor]			Cooling	°C	-10 ~ +46	
			Heating	°C	-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.

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

(*)3 SHi: Super High

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

ZUBADAN[®] SERIES

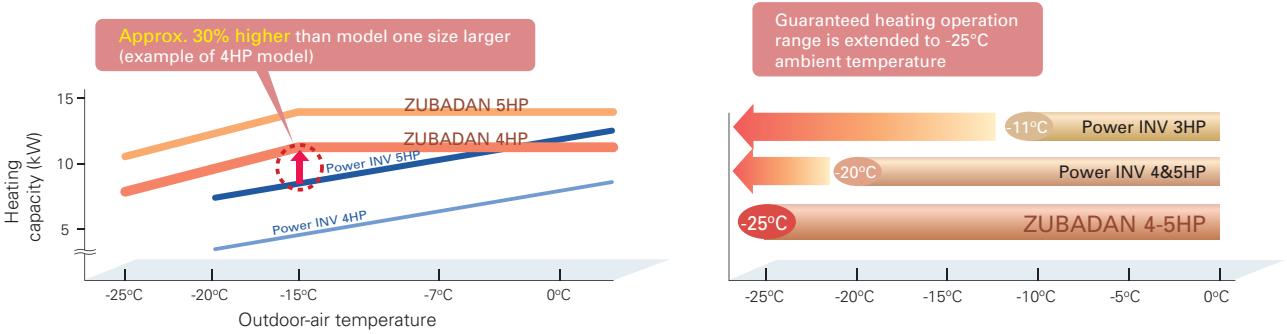
The ZUBADAN Series incorporates an original Flash Injection technology that improves the already high heating capacity of the system. This new member of the series line-up ensures comfortable heat pump-driven heating performance in cold regions.



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

Improved Heating Performance

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

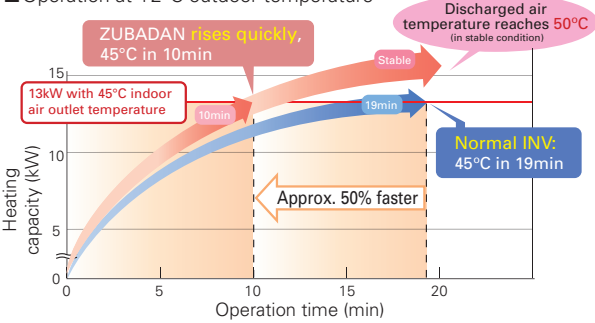


Enhanced Comfort

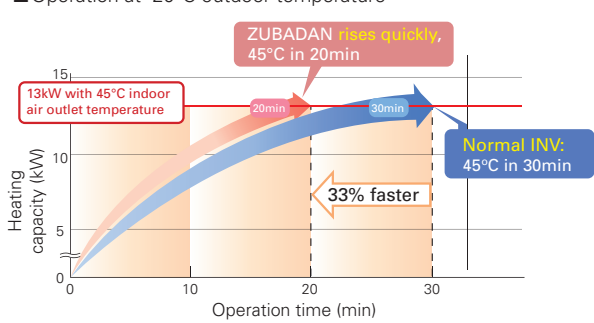
The Flash Injection circuit improves start-up and recover from the defrosting operation. A newly introduced defrost operation control also improves defrost frequency. These features enable the temperature to reach the set temperature more quickly, and contribute to maintaining it at the desired setting.

Quick Start-up

■ Operation at +2°C outdoor temperature



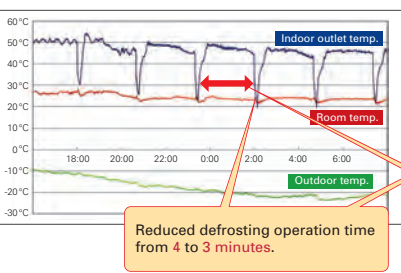
■ Operation at -20°C outdoor temperature



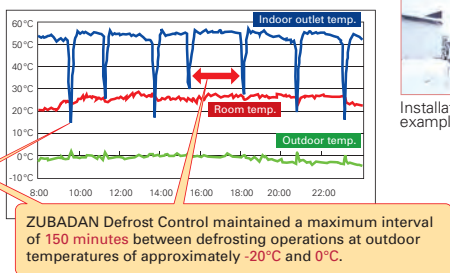
ZUBADAN Defrost Control and Faster Recovery from Defrost Operation

Field Test Results: Office building in Asahikawa, Hokkaido, Japan

■ Operation data for 25 Jan. 2005



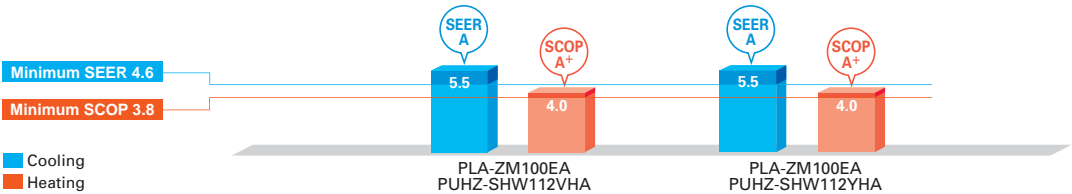
■ Operation data for 2 Dec. 2004



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



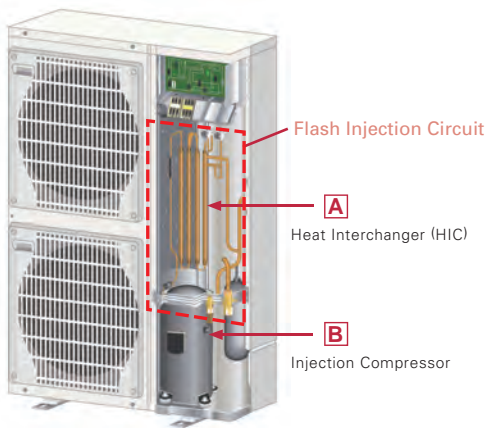
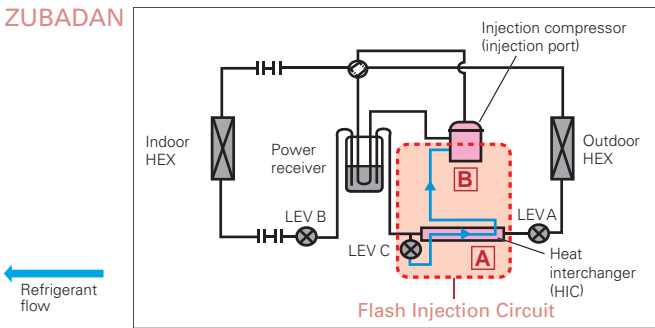
Powerful heating yet annually high energy efficiency in both cooling and heating, achieving rank A and A+.



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

Flash Injection Circuit

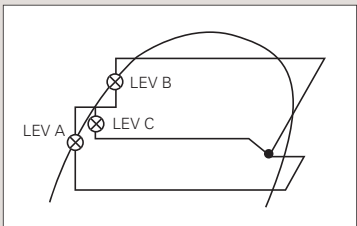
ZUBADAN



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

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

Mollier Chart Image Representing Flash Injection Circuit Operation



A Heat Interchanger (HIC)

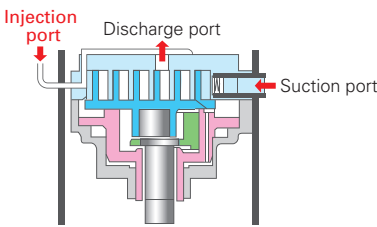
HIC cross-sectional view

Refrigerant which has passed through LEV C (refrigerant pressure lowered)
Refrigerant which hasn’t passed through LEV C

Purpose: Transform liquid refrigerant into liquid-gas state
Effect: Injection circuit increases energy efficiency

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

B Injection Compressor



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

PLZ-SHW SERIES



Indoor Unit

R32
R410A



PLA-ZM100/125EA

Panel

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation
PLP-6EA				
PLP-6EAL	✓			
PLP-6EAE		✓		
PLP-6EALM	✓	✓		
PLP-6EALME	✓	✓	✓	

Outdoor Unit

R410A



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

Remote Controller



Enclosed in
PLP-6EALM/PLP-6EALME



*optional



*optional



*optional



Type	Inverter Heat Pump		
Indoor Unit	PLA-ZM100EA		
Outdoor Unit	PUHZ-SHW112VHA	PUHZ-SHW112YHA	PUHZ-SHW140YHA
Refrigerant	R410A*		
Power Supply	Outdoor power supply		
Outdoor (V/Phase/Hz)	230 / 1 / 50	400 / 3 / 50	400 / 3 / 50
Cooling	Capacity	Rated	kW
		Min - Max	kW
	Total Input	Rated	kW
	EER		
	EEL Rank		
	Design Load	kW	
	Annual Electricity Consumption*	kWh/a	
	SEER		
	Energy Efficiency Class		
	Capacity	Rated	kW
Heating (Average Season)		Min - Max	kW
	Total Input	Rated	kW
	COP		
	EEL Rank		
	Design Load	kW	
	Declared Capacity	at reference design temperature	kW
		at bivalent temperature	kW
		at operation limit temperature	kW
	Back Up Heating Capacity	kW	
	Annual Electricity Consumption*	kWh/a	
Operating Current (max)	Input	Rated	kW
	Operating Current (max)	A	
	Dimensions <Panel>	H x W x D	mm
	Weight <Panel>	kg	
	Air Volume [Lo-Mi2-Mi1-Hi]	m³/min	
	Sound Level (SPL) [Lo-Mi2-Mi1-Hi]	dB(A)	
	Sound Level (PWL)	dB(A)	
	Dimensions	H x W x D	mm
	Weight	kg	
	Air Volume	Cooling	m³/min
Indoor Unit		Heating	m³/min
	Sound Level (SPL)	Cooling	dB(A)
		Heating	dB(A)
	Sound Level (PWL)	Cooling	dB(A)
		Heating	dB(A)
	Operating Current (max)	A	
	Breaker Size	A	
	Diameter	Liquid / Gas	mm
	Max. Length	Out-In	m
	Max. Height	Out-In	m
Outdoor Unit	Guaranteed Operating Range [Outdoor]	Cooling*	°C
		Heating	°C
	Dimensions	H x W x D	mm
	Weight	kg	
	Air Volume	Cooling	m³/min
		Heating	m³/min
	Sound Level (SPL)	Cooling	dB(A)
		Heating	dB(A)
	Sound Level (PWL)	Cooling	dB(A)
		Heating	dB(A)
Ext. Piping	Operating Current (max)	A	
	Breaker Size	A	
	Diameter	Liquid / Gas	mm
	Max. Length	Out-In	m
	Max. Height	Out-In	m
	Guaranteed Operating Range [Outdoor]	Cooling*	°C
		Heating	°C
	Dimensions	H x W x D	mm
	Weight	kg	
	Air Volume	Cooling	m³/min

*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



Indoor Unit

R410A



PLA-M100/125EA

Panel

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation
PLP-6EA				
PLP-6EAL	✓			
PLP-6EAE		✓		
PLP-6EALAE	✓	✓		
PLP-6EALJ	✓			✓
PLP-6EALJE	✓	✓		✓
PLP-6EALM	✓		✓	
PLP-6EALME	✓	✓	✓	

Outdoor Unit

R410A



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

Remote Controller



Enclosed in
PLP-6EALM/PLP-6EALME



*optional



*optional



*optional



Type	Inverter Heat Pump		
Indoor Unit	PLA-M100EA		
Outdoor Unit	PUHZ-SHW112VHA	PUHZ-SHW112YHA	PUHZ-SHW140YHA
Refrigerant	R410A*1		
Power Supply	Outdoor power supply		
Outdoor (V/Phase/Hz)	230 / 1 / 50	400 / 3 / 50	400 / 3 / 50
Cooling	Capacity	Rated	kW
		Min - Max	kW
	Total Input	Rated	kW
	EER		
	EEL Rank		
	Design Load	kW	
	Annual Electricity Consumption*2	kWh/a	
	SEER		
	Energy Efficiency Class		
	Capacity	Rated	kW
Heating (Average Season)		Min - Max	kW
	Total Input	Rated	kW
	COP		
	EEL Rank		
	Design Load	kW	
	Declared Capacity	at reference design temperature	kW
		at bivalent temperature	kW
		at operation limit temperature	kW
	Back Up Heating Capacity	kW	
	Annual Electricity Consumption*2	kWh/a	
Operating Current (max)	Input	Rated	kW
	Operating Current (max)	A	
	Dimensions <Panel>	H x W x D	mm
	Weight <Panel>	kg	
	Air Volume [Lo-Mi2-Mi1-Hi]	m³/min	
	Sound Level (SPL) [Lo-Mi2-Mi1-Hi]	dB(A)	
	Sound Level (PWL)	dB(A)	
	Dimensions	H x W x D	mm
	Weight	kg	
	Air Volume	Cooling	m³/min
Outdoor Unit		Heating	m³/min
	Sound Level (SPL)	Cooling	dB(A)
		Heating	dB(A)
	Sound Level (PWL)	Cooling	dB(A)
	Operating Current (max)	A	
	Breaker Size	A	
	Diameter	Liquid / Gas	mm
	Max. Length	Out-In	m
	Max. Height	Out-In	m
	Guaranteed Operating Range [Outdoor]	Cooling*3	°C
		Heating	°C

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

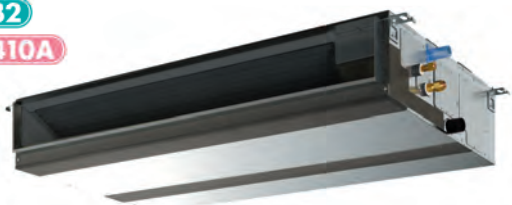
*3 Optional air protection guide is required where ambient temperature is lower than -5°C.

PEDZ-SHW JA SERIES



Indoor Unit

R32
R410A



PEAD-M100/125JA(L)

Outdoor Unit

R410A



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

Remote Controller



*optional



*optional



*optional



*optional



Type				Inverter Heat Pump			
Indoor Unit				PEAD-M100JA(L)		PEAD-M125JA(L)	
Outdoor Unit				PUHZ-SHW112VHA(-BS)		PUHZ-SHW112YHA(-BS)	
Refrigerant				R410A*1			
Power Supply	Source			Outdoor power supply			
	Outdoor (V/Phase/Hz)			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 Consumption*2		kWh/a	729 (714)	729 (714)	—	
	SEER			4.8 (4.9)	4.8 (4.9)	—	
	Energy Efficiency Class			B	B	—	
Heating (Average Season)	Capacity	Rated	kW	11.2	11.2	14.0	
		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	
	Total Input	Rated	kW	3.103	3.103	3.879	
		COP			—	—	3.61
		EEL Rank		—	—	—	
	Design Load		kW	12.7	12.7	—	
	Declared Capacity	at reference design temperature	kW	11.2	11.2	—	
		at bivalent temperature	kW	11.2	11.2	—	
		at operation limit temperature	kW	9.4	9.4	—	
	Back Up Heating Capacity		kW	1.5	1.5	—	
	Annual Electricity Consumption*2		kWh/a	4664	4664	—	
	SCOP			3.8	3.8	—	
	Energy Efficiency Class			A	A	—	
Operating Current (max)			A	37.7	15.7	15.8	
Indoor Unit	Input (Cooling / Heating)	Rated	kW	0.25 (0.23) / 0.23	0.25 (0.23) / 0.23	0.36 (0.34) / 0.34	
	Operating Current (max)		A	2.65	2.65	2.76	
	Dimensions	H x W x D	mm	250 - 1400 - 732			
	Weight		kg	41 (40)	41 (40)	43 (42)	
	Air Volume (Lo-Mid-Hi)		m³/min	24.0 - 29.0 - 34.0	24.0 - 29.0 - 34.0	29.5 - 35.5 - 42.0	
	External Static Pressure		Pa	35 / 50 / 70 / 100 / 150	35 / 50 / 70 / 100 / 150	35 / 50 / 70 / 100 / 150	
	Sound Level (SPL) (Lo-Mid-Hi)		dB(A)	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	
	Sound Level (PWL)		dB(A)	61	61	65	
	Outdoor Unit	Dimensions	H x W x D	mm	1350 - 950 - 330 (+30)		
Weight			kg	120	134	134	
Air Volume		Cooling	m³/min	100.0	100.0	100.0	
		Heating	m³/min	100.0	100.0	100.0	
Sound Level (SPL)		Cooling	dB(A)	51	51	51	
		Heating	dB(A)	52	52	52	
Sound Level (PWL)		Cooling	dB(A)	69	69	69	
Operating Current (max)		A	35.0	13.0	13.0		
Breaker Size		A	40	16	16		
Ext. Piping	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	
	Max. Length	Out-In	m	75	75	75	
	Max. Height	Out-In	m	30	30	30	
Guaranteed Operating Range (Outdoor)		Cooling*3	°C	−15 ~ +46	−15 ~ +46	−15 ~ +46	
		Heating	°C	−25 ~ +21	−25 ~ +21	−25 ~ +21	


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











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

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

PKZ-SHW

SERIES






Indoor Unit

R32


R410A



PKA-M100KA(L)





Outdoor Unit

R410A



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

Remote Controller



*optional

*optional

*optional

Demand Control

Pure White

AUTO VANE

Check

SWING

AUTO

ACO

Auto Restart

Low Temp Cooling

Silent

Ampere Limit

Rotation Back-up

Optional

Optional

Group Control

M-NET connection

Wi-Fi Interface

Optional

COMPO

Optional

Wiring Reuse

Optional

Drain Lift Up

Optional

Pump Down

Flare connection

Self Diagnosis

Failure Recall

Type				Inverter Heat Pump	
Indoor Unit				PKA-M100KA(L)	
Outdoor Unit				PUHZ-SHW112VHA(-BS)	PUHZ-SHW112YHA(-BS)
Refrigerant				R410A* ¹	
Power Supply	Source			Outdoor power supply	
	Outdoor (V/Phase/Hz)			VHA:230 / Single / 50, YHA:400 / Three / 50	
Cooling	Capacity	Rated	kW	10.0	10.0
		Min - Max	kW	4.9 - 11.4	4.9 - 11.4
	Total Input	Rated	kW	2.924	2.924
	Design Load		kW	10.0	10.0
	Annual Electricity Consumption* ²		kWh/a	673	673
	SEER				5.2
Energy Efficiency Class			A	A	
Heating (Average Season)	Capacity	Rated	kW	11.2	11.2
		Min - Max	kW	4.5 - 14.0	4.5 - 14.0
	Total Input	Rated	kW	3.103	3.103
	Design Load		kW	12.7	12.7
	Declared Capacity	at reference design temperature	kW	11.2	11.2
		at bivalent temperature	kW	11.2	11.2
		at operation limit temperature	kW	9.4	9.4
	Back Up Heating Capacity		kW	1.5	1.5
	Annual Electricity Consumption* ²		kWh/a	4664	4664
	SCOP				3.8
Energy Efficiency Class			A	A	
Operating Current (max)			A	35.6	13.6
Indoor Unit	Input	Rated	kW	0.08	0.08
	Operating Current (max)		A	0.57	0.57
	Dimensions <Panel> H x W x 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	Dimensions H x W x D		mm	1350 - 950 - 330 (+30)	
	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
Breaker Size		A	40	16	
Ext. Piping	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	75	75
	Max. Height	Out-In	m	30	30
	Guaranteed Operating Range [Outdoor]	Cooling* ³	°C	-15 ~ +46	-15 ~ +46
Heating		°C	-25 ~ +21	-25 ~ +21	

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

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

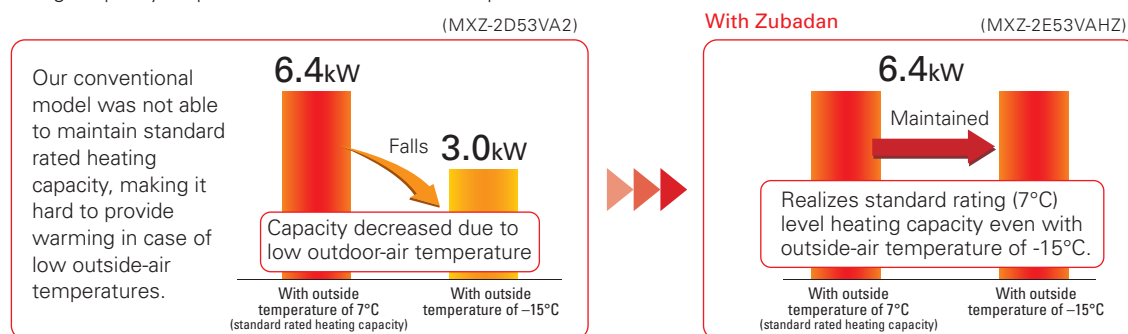
MXZ-VAHZ SERIES

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.



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

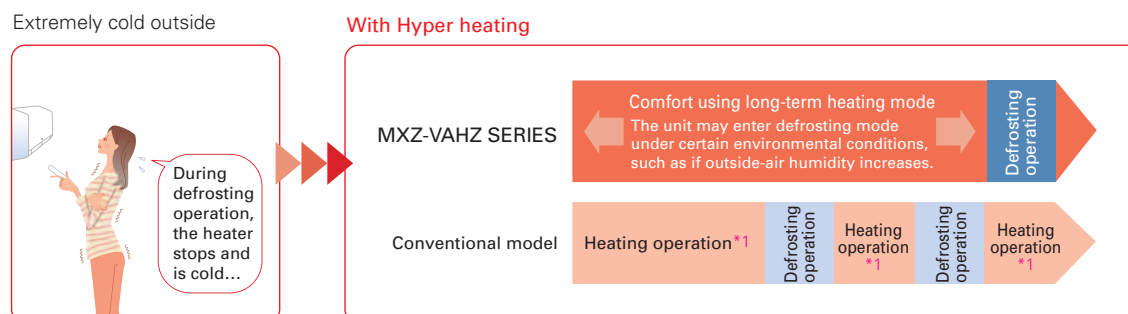
Prevents capacity loss and operation from stopping due to drain water freezing.

Drain water **freezes** after operation in the harsh cold



Continuous heating for long periods

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

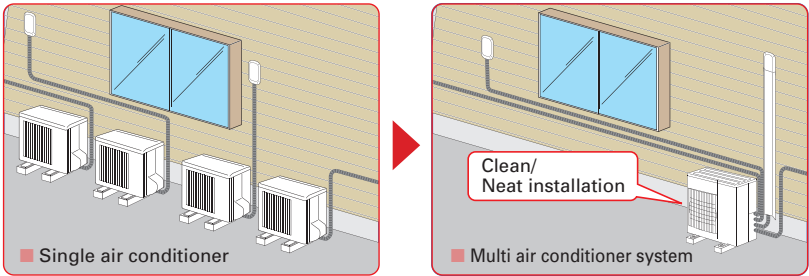


*1: Conventional model performs continuous heating approximately 30min up to a maximum of 90min.

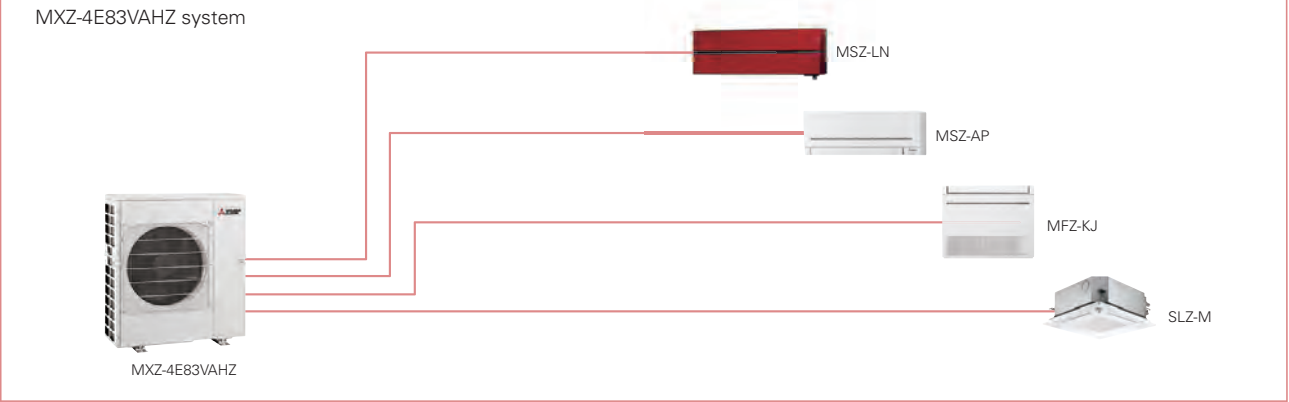
One outdoor unit supports multiple indoor units.

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.













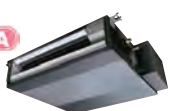



EXAMPLE SYSTEM



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.

OUTDOOR UNITS	
2-room use	4-room use
<div>R410A</div>  MXZ-2E53VAHZ	<div>R410A</div>  MXZ-4E83VAHZ

INDOOR UNITS			
Wall-mounted	Floor-standing	Cassette	Ceiling-suspended
<div>R32 R410A</div>  MSZ-LN	<div>R410A</div>  MFZ-KJ	<div>R32 R410A</div>  SLZ	<div>R32 R410A</div> <div>*1</div>  PCA
<div>R410A</div>  MSZ-FH		<div>R32 R410A</div>  MLZ-KP	Ceiling-concealed
<div>R32 R410A</div>  MSZ-EF		<div>R32 R410A</div> <div>*1</div>  PLA	<div>R32 R410A</div>  SEZ
<div>R410A</div>  MSZ-SF			<div>R32 R410A</div> <div>*1</div>  PEAD
<div>R410A</div>  MSZ-GF			

*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

Type				Inverter Heat Pump	
Indoor Unit				Please refer to *4 *5	
Outdoor Unit				MXZ-2E53VAHZ	MXZ-4E83VAHZ
Refrigerant				R410A*1	
Power Supply	Source	Outdoor power supply			
	Outdoor (V/Phase/Hz)	220 - 230 - 240V / 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 Consumption*2		kWh/a	282	447
	SEER*4			6.5	6.5
		Energy Efficiency Class*4		A++	A++
Heating (Average Season)	Capacity	Rated (7°C)	kW	6.4	9.0
		Rated (-7°C)	kW	6.4	9.0
		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
	Design Load		kW	6.4	10.1
	Declared Capacity	at reference design temperature	kW	6.4	9.0
		at bivalent temperature	kW	6.4	9.0
		at operation limit temperature	kW	2.4	2.5
	Back Up Heating Capacity		kW	0.0	1.1
	Annual Electricity Consumption*2		kWh/a	2165	3446
	SCOP			4.1	4.1
		Energy Efficiency Class*4		A+	A+
Max. Operating Current (Indoor+Outdoor)			A	28.0	
Outdoor Unit	Dimensions	H × W × D	mm	796 × 950 × 330	1048 × 950 × 330
	Weight		kg	61	87
	Air Volume	Cooling	m³/min	47.0	63.0
		Heating	m³/min	47.0	77.0
	Sound Level (SPL)	Cooling	dB(A)	45	53
		Heating	dB(A)	47	57
	Sound Level (PWL)	Cooling	dB(A)	55	66
	Breaker Size		A	16	30
Ext. Piping	Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35× 4 / 12.7 × 1+9.52 × 3
	Total Piping Length (max)		m	30	70
	Each Indoor Unit Piping Length (max)		m	20	25
	Max. Height		m	15 (10) *3	15 (10) *3
	Chargeless Length		m	20	25
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46	-10 ~ +46
		Heating	°C	-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 2088. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

*2 Energy consumption based on standard test results.

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

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

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

MXZ-2E53VAHZ MSZ-EF18VE + MSZ-EF35VE

MXZ-4E83VAHZ MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF25VE

*5 Indoor unit compatibility table is shown on page 112.

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

3 Important Points to Remember When Installing the Outdoor Unit



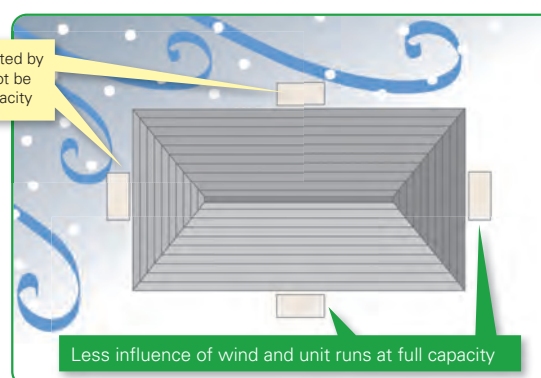
* RAC/PAC (inc. Air to Water) /MXZ

Wind and snow can significantly reduce capacity.
Be sure to check the information below and install the outdoor unit correctly.

1 Installation Location

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

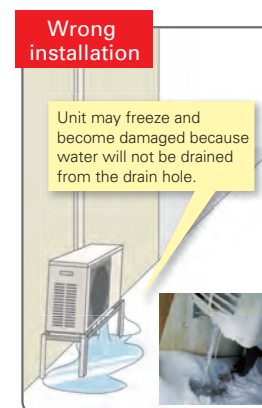
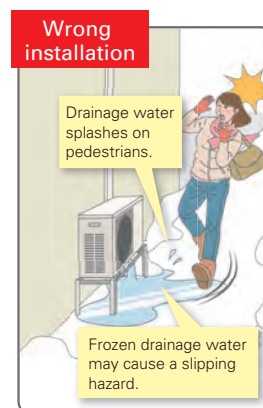
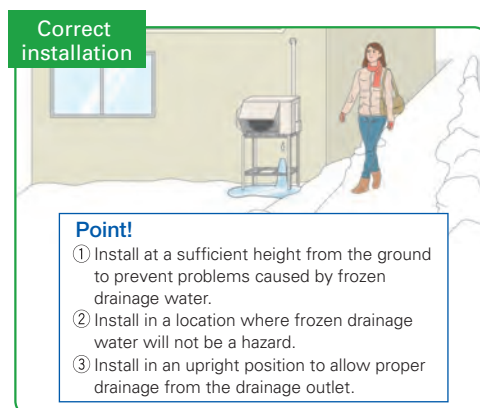
Units are easily affected by wind and unit may not be able to run at full capacity



2 Measures for Drainage of Water

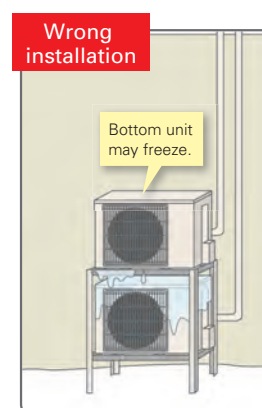
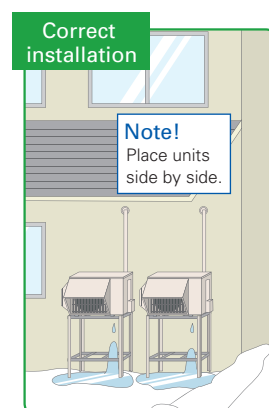
Case 1: Unit is installed close to passage (walkway)

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.



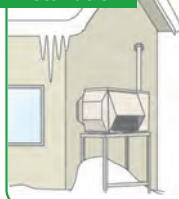
3 Measures for Snow

Unit is installed on the ground

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

[RAC / PAC / MXZ]

Correct installation



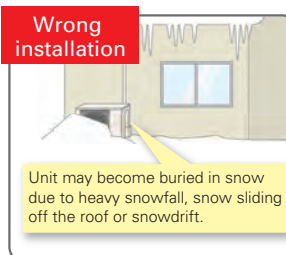
Point!

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

*¹ Install at a height above the highest snowfall depth.

*² Even for correct installations, dripping drainage water may form an icicle which needs to be cleared away regularly to prevent a blocked drainage outlet.

Wrong installation



Unit may become buried in snow due to heavy snowfall, snow sliding off the roof or snowdrift.

Wrong installation



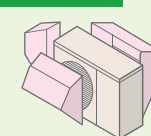
Unit may be damaged due to snowfall or icicles.

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

Install snow protection hood as necessary

[RAC / PAC / MXZ]

Correct installation

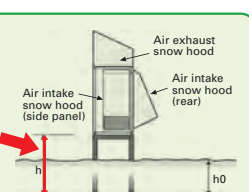


Point!

Install the snow protection hood or other cover in snowy regions.

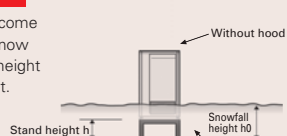
Correct installation

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

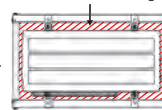


Wrong installation

Unit may become covered in snow if the stand height is insufficient.



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

	Snowy region	Cold region	Remarks
	Countermeasures for snow	Countermeasures for freezing	
Drain socket, Centralised drain pan	Not used	Not used	Prevents freezing
Stand	Needed	Needed	[RAC / PAC / MXZ] 1. Install so as to prevent the unit being buried in snow (at a height greater than the highest snowfall depth). Be sure that the stand does not obstruct drainage. 2. Install so as to prevent damage to the unit due to frozen drainage water (icicles). 
Snow protection hood	Needed *When the installation position is subject to snowfall.	—	1. Prevents heat exchanger from being covered in snow. 2. 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.



CAUTION

About disposal of drainage water

When the unit is installed in cold or snowy regions :

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



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

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

Arrangement for snow protection hood

[RAC / PAC / MXZ]

Separately sold parts are available for some models.

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

AIR TO WATER















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

“ecodan” – Economic, eco conscious next generation heating system

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

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

INDOOR UNIT		OUTDOOR UNIT			
Hydro box, cylinder unit					
		Packaged type	Small capacity (Under 5kW)*	Medium capacity (6.0kW–14kW)*	Large capacity (≥16kW)*
		ZUBADAN		 PUHZ-HW112/140	
		POWER INVERTER	 PUHZ-W50	 PUHZ-W60/85/112AA PUHZ-W85 PUHZ-W112	
		Split type	Small capacity (Under 5kW)*	Medium capacity (7.5kW–14kW)*	Large capacity (≥16kW)*
		ZUBADAN New Generation		 PUHZ-SHW80/112AA PUHZ-SHW80/112/140 PUHZ-SHW230	
Reversible hydro box, Reversible cylinder unit		POWER INVERTER	 PUHZ-SW50	 PUHZ-SW75 PUHZ-SW75/100AA PUHZ-SW100/120 PUHZ-SW160/200	
		Eco Inverter	 SUHZ-SW45		
		ATA/ATW Hybrid system	Small capacity (Under 5kW)*	Medium capacity (7.5kW–14kW)*	Large capacity (≥16kW)*
		Mr.SLIM+		 PUHZ-FRP71	
		PUMY + ecodan		 PUMY-P112/125/140	

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

New eco-design directive

What is the ErP Directive?

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

New energy label and measurements

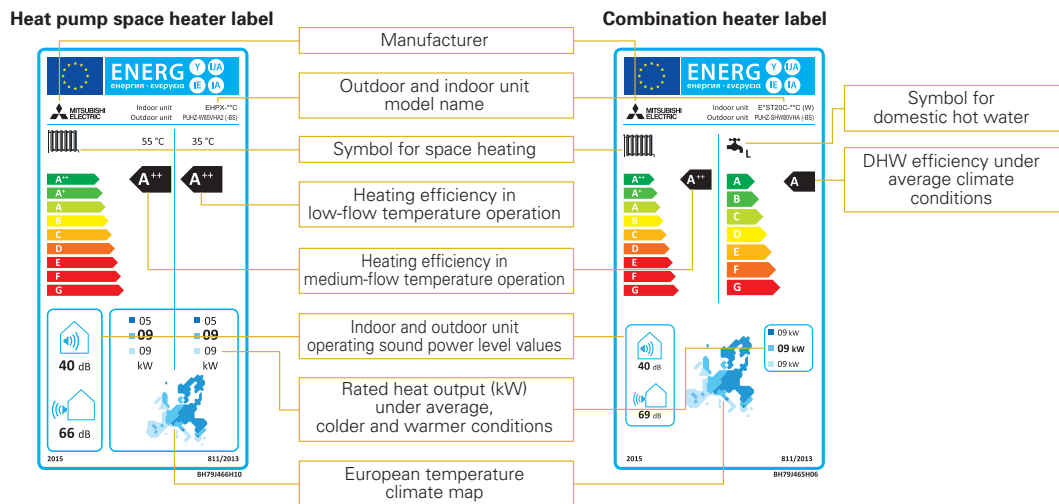
Under directive 2009/125/EC, ATW heat pumps of up to 70kW are required to show their heating efficiency on the energy label. The purpose of the energy label is to inform customers about the energy efficiency of a heating unit. The efficiency for space heating is ranked from A++ to G. In the case of domestic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

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

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

Product label

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



These labels are delivered with all ecodan outdoor units.

What is the package label?

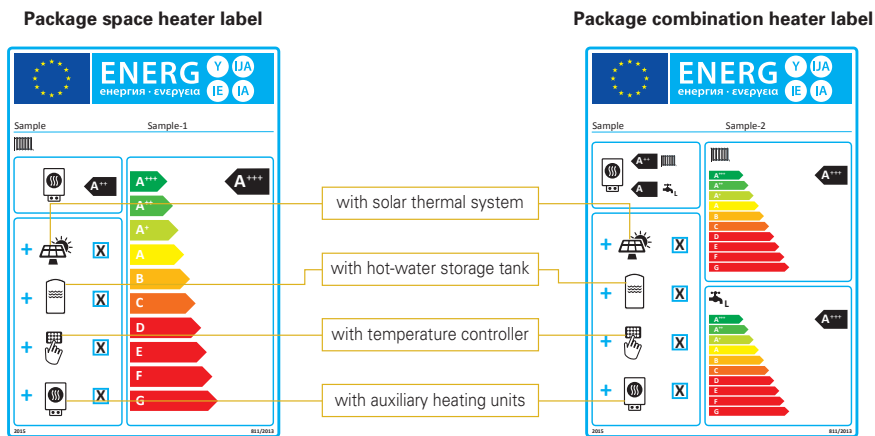
A heating system can use several energy-related products, such as a controller or solar thermal system. Therefore, a label showing the efficiency of the total heating system is required. The category range is defined from A+++ to G.

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

<http://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)

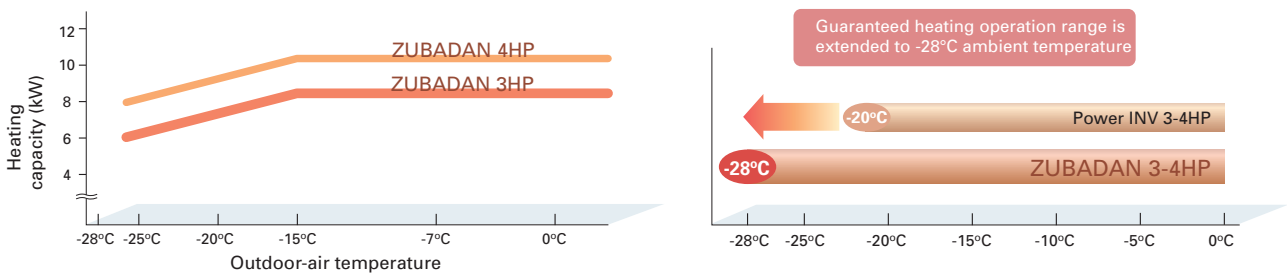
Even at the very low ambient temperatures, our ZUBADAN can provide powerful heating.



- 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.

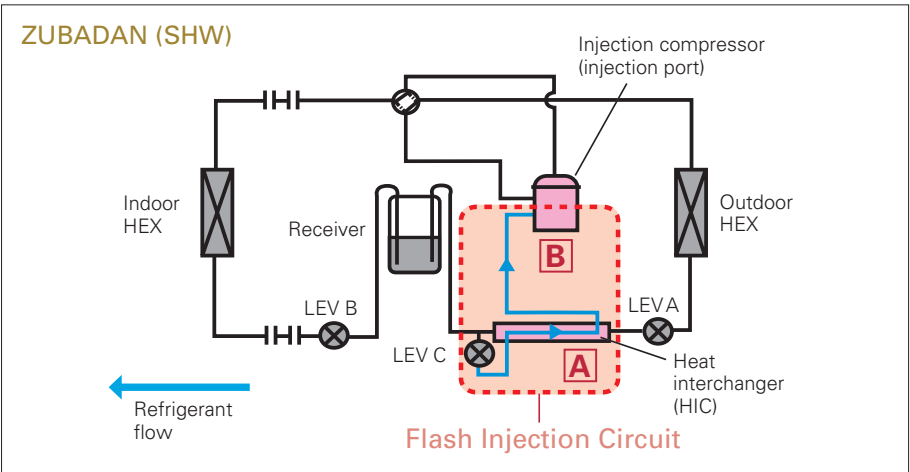
Improved Heating Performance

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.



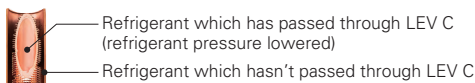
Mitsubishi Electric's Flash Injection Technology The Key to High Heating Performance at Low Outdoor Temperatures

■ Flash Injection Circuit



A Heat Interchanger (HIC)

HIC cross-sectional view

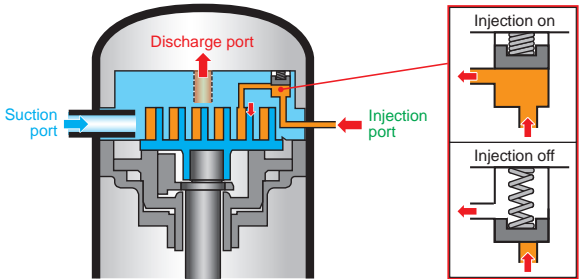


Purpose: Transform liquid refrigerant into liquid-gas state

Effect: Injection circuit increases energy efficiency

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

B Injection Compressor



Purpose: To increase the volume of refrigerant being circulated

Effect: Improves heating capacity at low outdoor 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
W60VAA W85V/YAA W112V/YAA

Stylish and compact

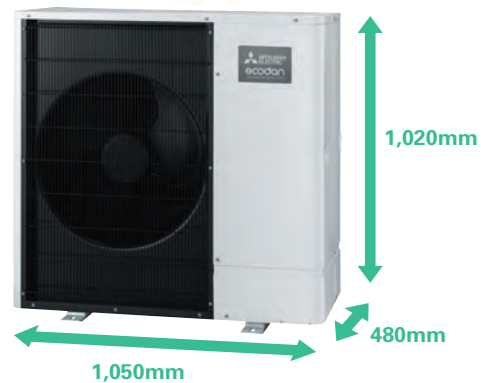
The stylish design and compact size harmonises residential application

- 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.

NEW

GOOD
DESIGN

reddot
award 2018
winner



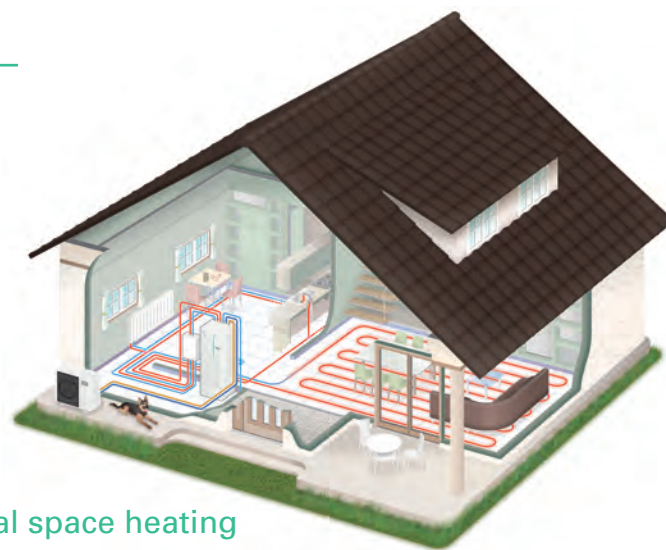
High performance

New compressor



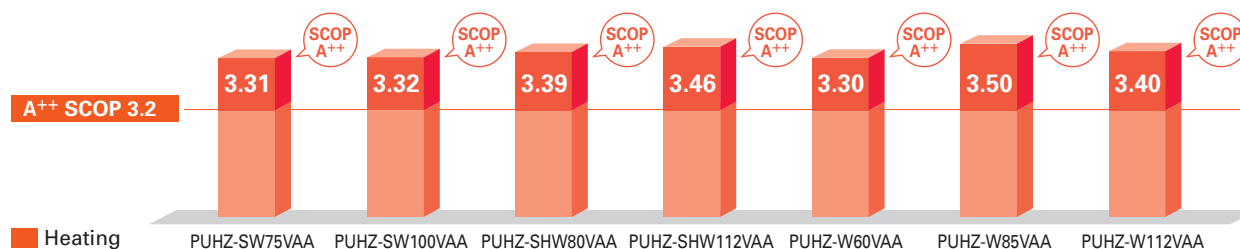
- Compact
- High performance

* for PUHZ-SW100V/YAA
PUHZ-SHW80V/YAA
PUHZ-SHW112V/YAA
PUHZ-W112V/YAA



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

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



Higher reliability

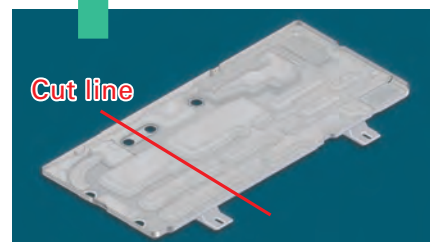
New base design

Improving drainage

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



sectional view



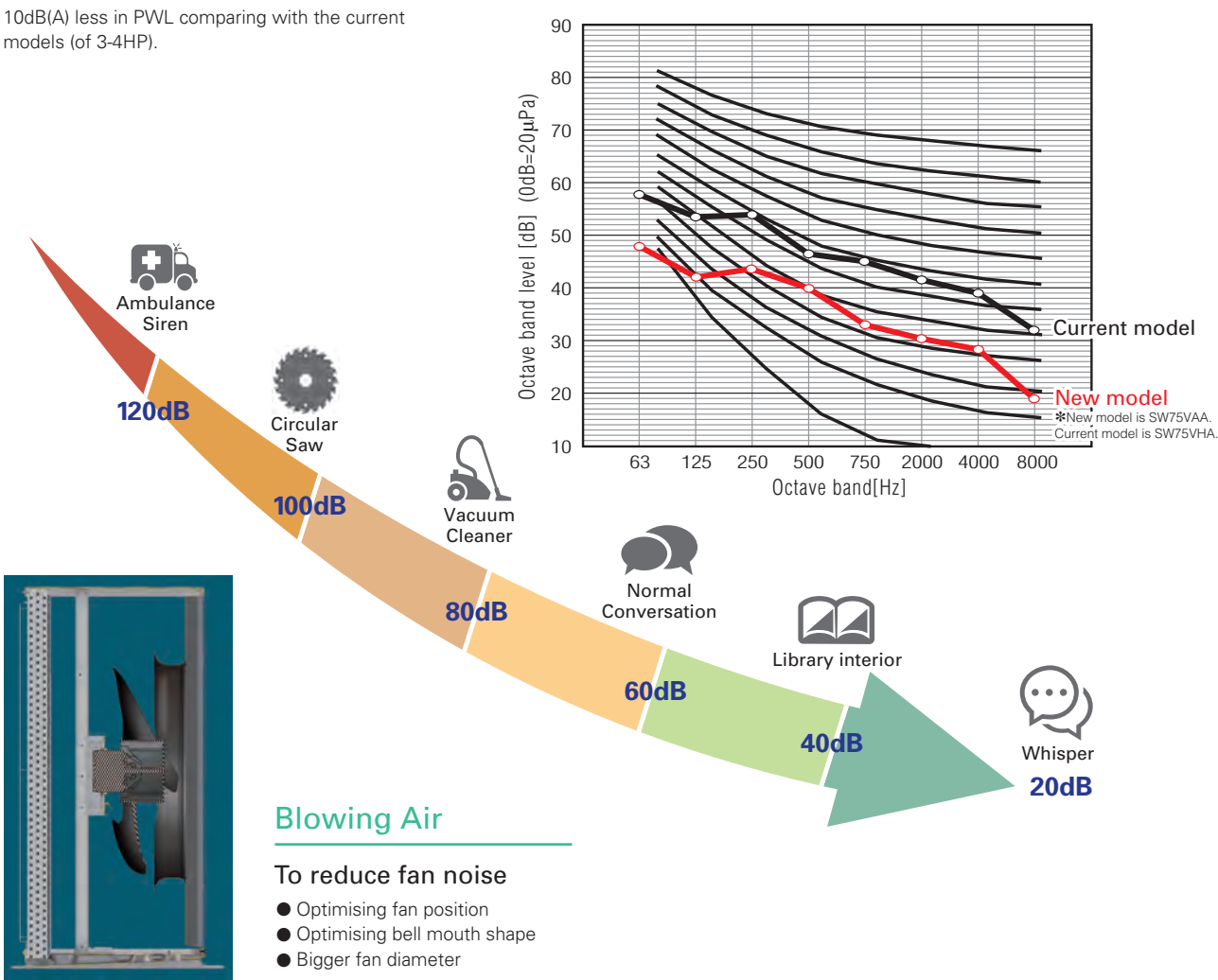
Optimizing defrost control and operation.

Optimizing outdoor unit heat exchanger to avoid ice-forming.

Compact but low noise

Noise reduction-10dB(A)

10dB(A) less in PWL comparing with the current models (of 3-4HP).



Enclosing noise

Shutting out noise from compressor

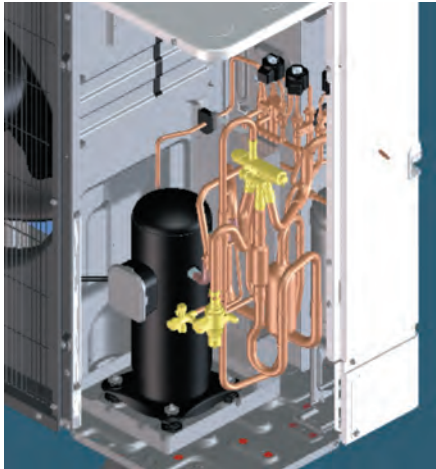
- The structure of double enclosing

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.



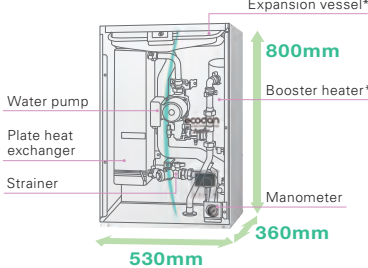
Indoor units

New all-in-one compact indoor unit

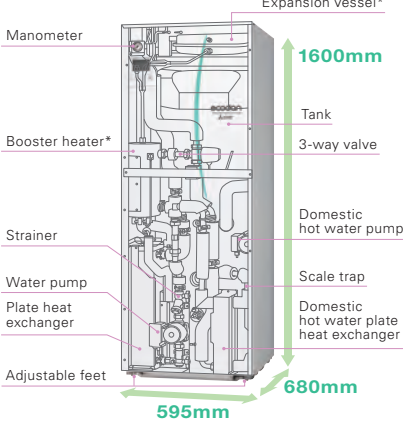
Easy to install and low maintenance

- All-in-one: Key functional components are incorporated
- Compact cylinder unit: Just 1600mm in height
- Compact hydro box: Only 530x360mm 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)

Hydro box (Split type)



Cylinder unit (Split type)



*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.

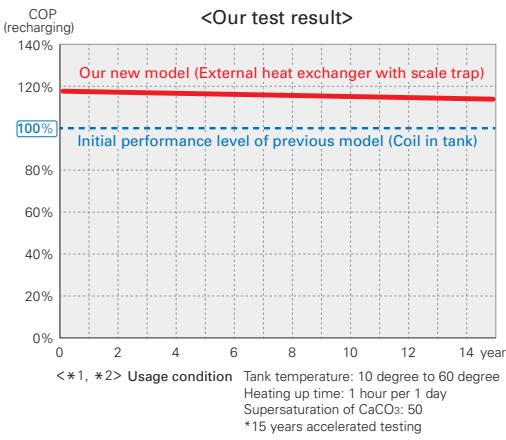
Avoid performance loss due to scale

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.



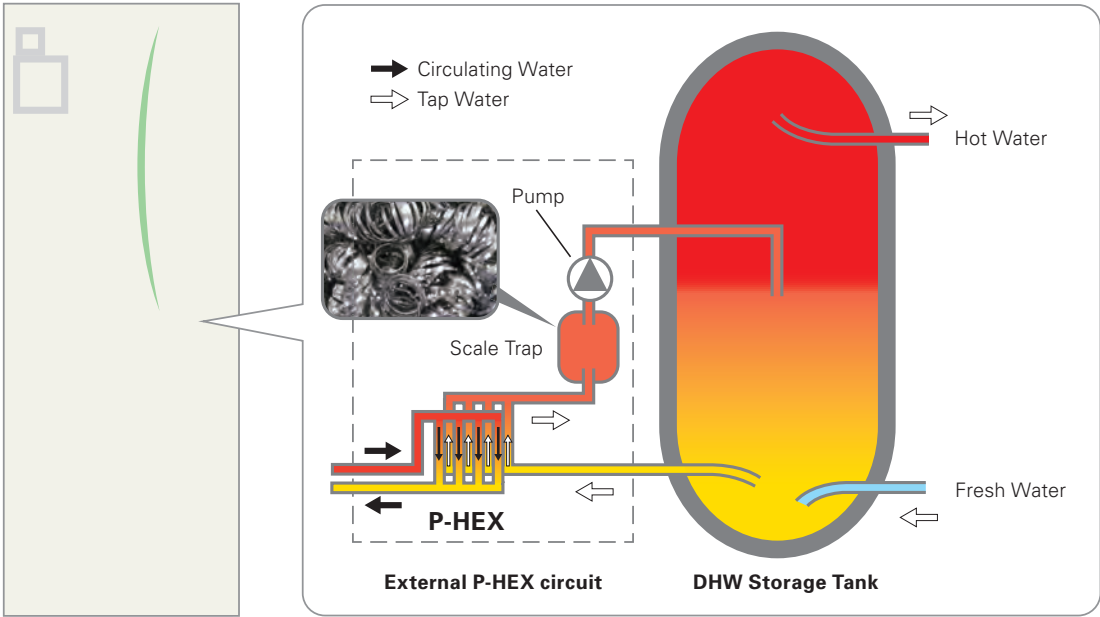
Optimised stratification for better comfort

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



Unique technology of ecodan

Auto Adaptation

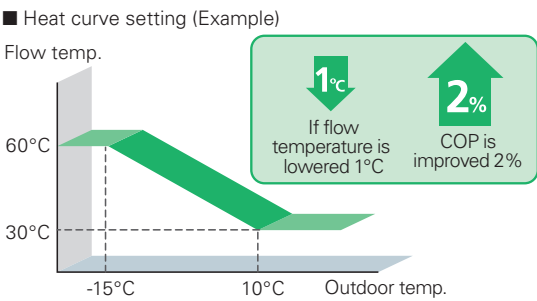
Maximise energy savings while retaining comfort at all times



*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.

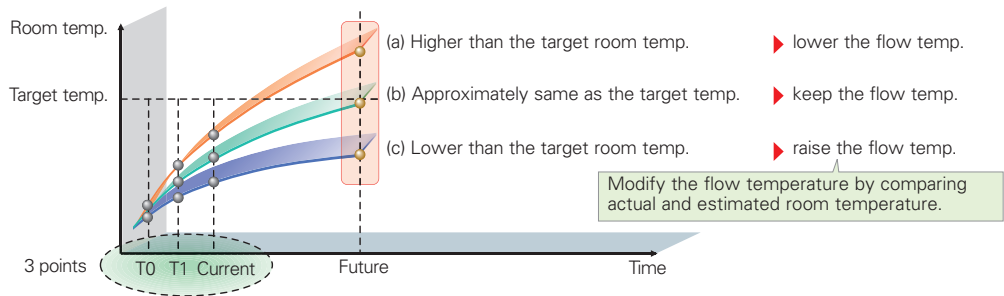
In a conventional system controller, the flow temperature is determined based on the pre-set heat curve depending on the actual outdoor temperature. However, this requires a complicated setting to achieve the optimal heat curve.



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



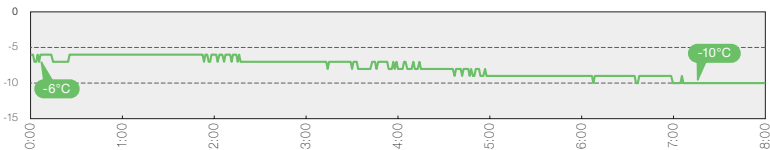
Auto Adaptation – room temperature control

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

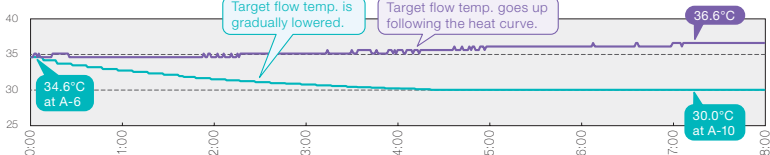


[Example]

a) Outdoor temperature is gradually decreasing...

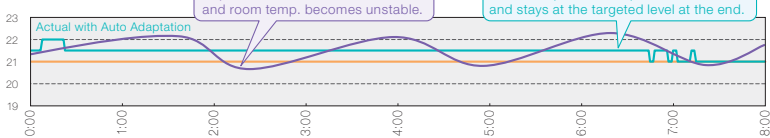


b) Target flow temperature



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

c) Room temperature



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



2 zone control (for heating/cooling)

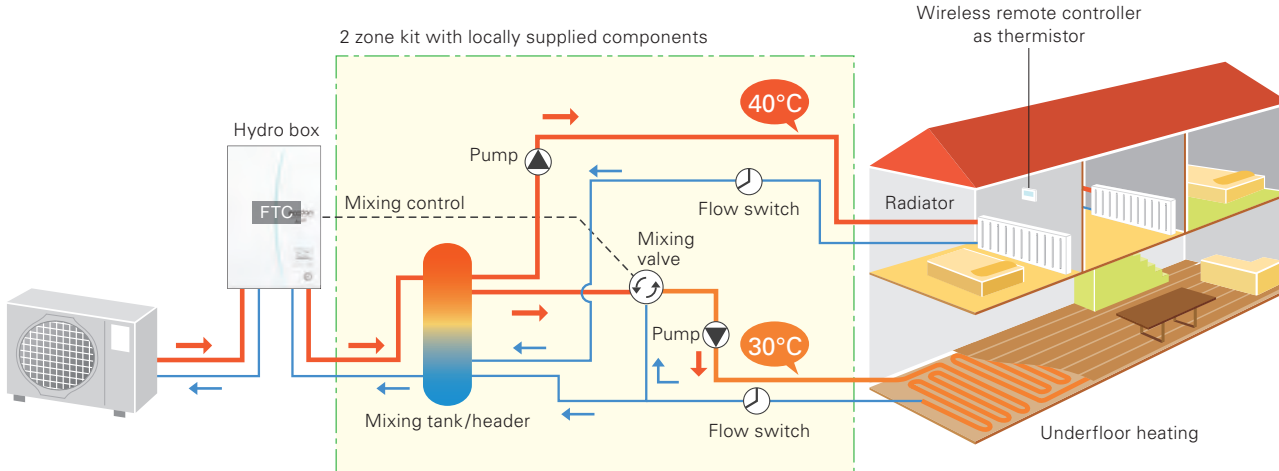
Simultaneously control two different zones



*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.

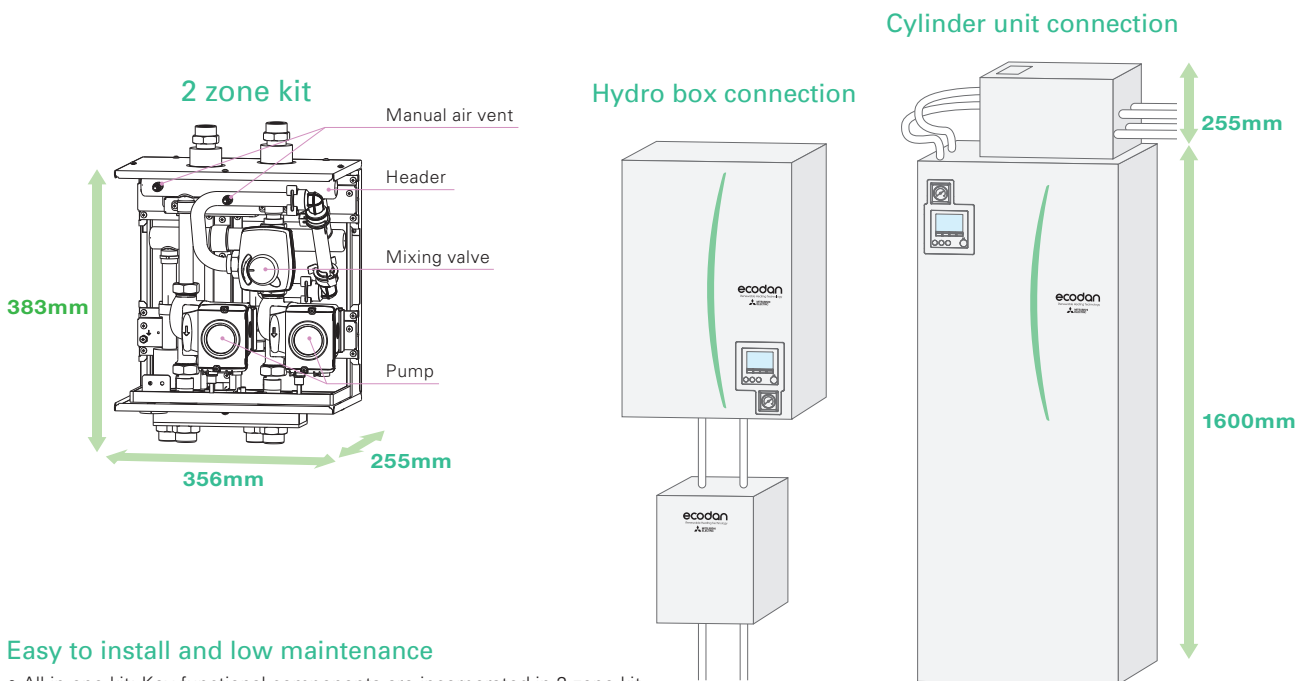
■ Two temperature zones



*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



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



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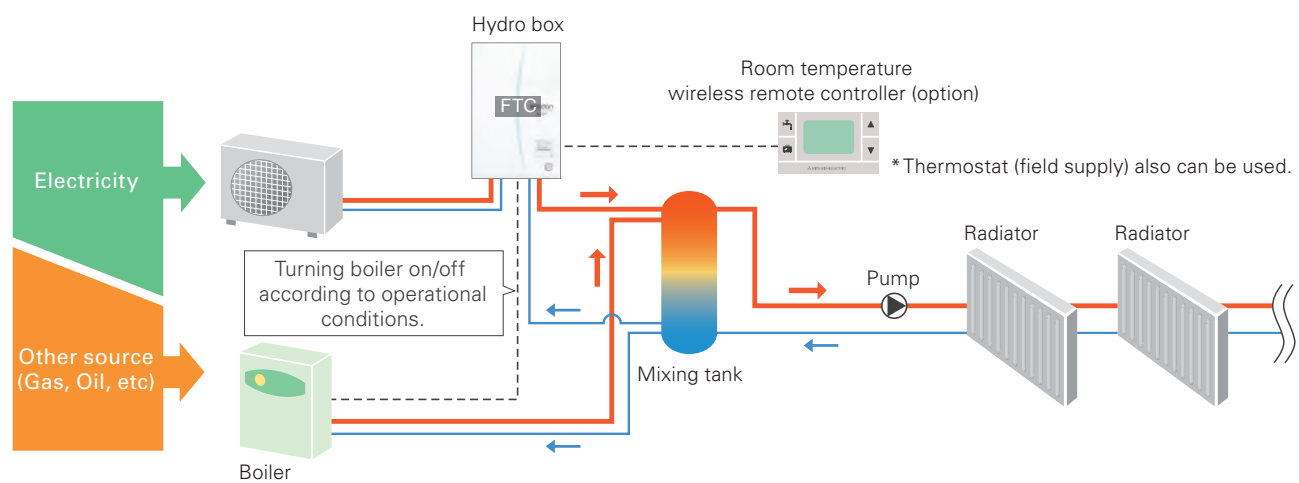
The flexibility of ecodan's intelligent control allows the system to be combined with the boiler currently in use. Additionally, this control can judge which heating source to use either ecodan or the existing boiler, based on various conditions*.

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

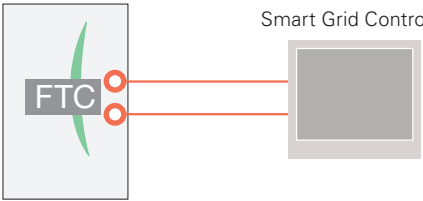
4 types of heat source switchover logic

- 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)



Smart Grid Controller

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

SG

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

